

CLIMATE COMMISSION FOR THE SAHEL REGION



VOLUME 2: CLIMATE INVESTMENT PLAN FOR THE SAHEL REGION (CIP-SR 2018-2030)

FINAL REPORT

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SUMMARY

SUMMARY.....	I
LIST OF TABLES	V
LIST OF FIGURES AND MAPS.....	VI
LIST OF ANNEXES.....	VII
LIST OF ACRONYMS.....	X
GLOSSARY	XIII
EXECUTIVE SUMMARY	I
GENERAL INTRODUCTION.....	8
I. CHAPTER 1: OBJECTIVES OF THE STUDY.....	9
II. CHAPTER 2: METHODOLOGICAL APPROACH	10
2.1 DEVELOPING AN OVERALL METHODOLOGY OF THE STUDY	10
2.2 COUNTRY MISSIONS	11
2.2.1 Division of consultants teams	11
2.2.2 Methodology and conduct of missions	11
2.2.3 Results of the missions	13
2.2.4 Encountered difficulties.....	13
2.2.5 Results debrief meeting	14
2.2.6 Overall structure of deliverables.....	14
2.3 DEVELOPMENT OF DIAGNOSTIC REPORT ON THE STATE OF PLAY	14
2.4 DIAGNOSTIC VALIDATION WORKSHOP REPORT	14
2.5 DEVELOPMENT OF CIP SR AND OTHER DELIVERABLES	15
2.6 CIP SR VALIDATION WORKSHOP AND OTHER DELIVERABLES	15
III. CHAPTER 3: CLIMATE CHANGE: MAJOR ISSUES AND CHALLENGES.....	16
3.1 VULNERABILITY TO CLIMATE CHANGE	16
3.2 RESPONSES ATTEMPTS	18
3.2.1 Policies, strategies and programs implemented at the state level	18
3.2.2 Policies, strategies and programs implemented at the basin organizations and regional integration organizations	19
3.2.3 Communication actions and advocacy.....	21
3.2.4 Institutional level and governance	22
3.2.5 Funding opportunities and access conditions	23
3.2.6 Experiences and good practices	24
3.3 ASSETS AND OPPORTUNITIES.....	25
3.4 KEY CHALLENGES	25
IV. CHAPTER 4: CIP SR VISION AND STRATEGIC DIRECTIONS.....	26
4.1 CHALLENGES, OPPORTUNITIES AND MAJOR CHALLENGES	26
4.1.1 Critical challenges	26
4.1.1.1 Challenges of quality environmental governance.....	26
4.1.1.2 Socio-demographic challenges.....	26
4.1.1.3 Lobbying and advocacy to increase the share of funding dedicated to adaptation	27
4.1.1.4 Challenges related to access to funding windows.....	27
4.1.2 Opportunities	27
4.1.2.1 Demographic opportunities	27
4.1.2.2 Important agricultural, fishing and sylvo-pastoral potential	27

4.1.2.3	Forest biological resources wealth	28
4.1.2.4	Abundant and diverse mineral resources.....	28
4.1.2.5	Tourism opportunities.....	28
4.1.3	Major issues	28
4.2	VISION	29
4.3	CIP SR FOUNDATIONS AND GENERAL GUIDELINES	29
4.3.1	Foundations.....	29
4.3.2	CIP SR general guidelines	29
4.3.2.1	Leadership of the States.....	30
4.3.2.2	Subsidiarity and partnership.....	30
4.3.2.3	4.3.2.3. Results-based management.....	30
4.3.2.4	Intersectoral approach.....	30
4.3.2.5	Proactive coordination.....	30
4.3.2.6	Equity and reducing inequalities	30
4.3.2.7	Capitalization of lessons learned	31
4.4	STRATEGIC OBJECTIVES AND OUTCOMES	31
4.4.1	CIP SR overall objective	31
4.4.2	Specific objectives.....	31
4.4.3	Strategic outcomes.....	31
4.4.4	CIP SR strategic guidelines.....	32
V.	CHAPTER 5: PROGRAMS, SUBPROGRAMS AND MAJOR ACTIONS BY STRATEGIC AXIS	33
5.1	AXIS 1 (A1): RESTORATION AND REHABILITATION OF DEGRADED LANDS AND FRAGILE ECOSYSTEMS	33
5.1.1	P1 Program: Support to national and regional programs of land restoration.....	34
5.1.1.1	Subprogram: Support to national plans of neutrality regarding lands degradation.....	34
5.1.1.2	Subprogram: Development of the "economy of lands degradation" and "Green economy"	34
5.1.1.3	P1 program indicators : Support to national and regional programs of lands restoration.....	35
5.1.2	P2 Program: Integrated management of sensitive ecosystems important for building resilience.....	35
5.1.2.1	Subprogram: Protection and redevelopment of important Wetlands for the Ramsar Convention	36
5.1.2.2	Subprogram: Reconstruction and protection of fragile ecosystems in the Sahel Region (mangrove stands, the tiger bush, bowls and oases) 36	
5.1.2.3	Subprogram: protection of coastal areas	36
5.1.2.4	P2 program indicators : Integrated management of sensitive environments important for strengthening resilience.....	36
5.2	2 AXIS (A2): CARBON SEQUESTRATION CAPACITY STRENGTHENING	36
5.2.1	P3 program: Support to the reconstitution of natural ecosystems important for carbon sequestration	35
5.2.1.1	Subprogram: Support to the reconstitution of classified forests and other important natural ecosystems.....	36
5.2.1.2	Subprogram: Promote the creation and management of protected areas and national parks.....	36
5.2.1.3	Subprogram: Fight against deforestation (land clearing) and bushfires	36
5.2.1.4	P3 Program Indicators.....	36
5.2.2	P4 Program: Promoting reforestation plans in the context of carbon sequestration.....	36
5.2.2.1	Subprogram: Development and implementation of a state program of reforestation in the countries of the Sahel Region	37
5.2.2.2	Subprogram: Promotion of "village wood" and private plantations operations in local communities of the countries of the Sahel Region.....	37
5.2.2.3	P4 Program Indicators.....	37
5.3	AXIS 3 (A3): IMPROVING KNOWLEDGE AND CONSERVATION / WATER RESOURCES MANAGEMENT	37
5.3.1	P5 Program: Support to strengthen the knowledge of the field of water.....	39
5.3.2	P6 program: Observation and monitoring of surface water and groundwater resources	39
5.3.3	P7 Program: Conservation and water resources management	40
5.4	AXIS 4 (A4): ACCESS TO CLEAN WATER AND WITH PRODUCTIVE USES	40
5.4.1	P8 Program: Urban and village Hydraulic.....	Erreur ! Signet non défini.
5.4.2	P9 Program : Pastoral and agricultural Hydraulic.....	41
5.5	AXIS 5 (A5): STRENGTHEN THE INTER-STATE COOPERATION FOR GREAT SYNERGY ACTIONS REGARDING WATER RESOURCES MANAGEMENT	ERREUR ! SIGNET NON DEFINI.
5.5.1	P10 Program: Sharing and water resources management cooperation	41
5.5.2	P11 Program: Implementation of regional guidelines and policies at the state level regarding cross-border water management.....	Erreur ! Signet non défini.

5.6	AXIS 6 (A6): GHG REDUCTION IN THE AGRICULTURAL SECTOR	ERREUR ! SIGNET NON DEFINI.
5.6.1	<i>P12 Program: Promotion of low carbon farming systems</i>	43
5.6.1.1	Subprogram: Sustainable management of soil fertility	43
5.6.1.2	Subprogram: Sustainable management of irrigation systems	43
5.6.1.3	P12 Program indicators: Promotion of low carbon farming systems	43
5.6.2	<i>P13 Program: Promotion of animal production low carbon systems</i>	44
5.2.6.1	Subprogram "Promotion of integrated agricultural farming systems"	44
5.2.6.2	Subprogram "Securing pastoral production systems"	45
5.2.6.3	Program indicators : "Promotion of animal production low carbon system"	45
5.7	PRIORITY 7 (A7): PROMOTION OF SUSTAINABLE PRODUCTION SYSTEMS IN THE CONTEXT OF ADAPTATION TO CLIMATE CHANGE 46	
5.7.1	<i>P14 Program: Promoting intensification models of sustainable agricultural and livestock production</i>	46
5.7.1.1	Subprogram "Promotion of sustainable agricultural intensification models"	47
5.7.1.2	Subprogram "Promotion intensifying models of sustainable livestock production"	47
5.7.1.3	P14 Program Indicators: Promoting models of intensification of sustainable agricultural and livestock production	47
5.7.2	<i>P15 Program: Restoration of agricultural and pastoral lands</i>	48
5.7.2.1	Subprogram "Restoring agricultural lands"	49
5.7.2.2	Subprogram "Restoring rangelands"	51
5.7.2.3	P15 Program indicators: Restoration of agricultural and pastoral lands	51
5.7.3	<i>P16 Program: Management of agricultural and pastoral risk</i>	52
5.7.3.1	Subprogram "Promotion of agricultural and animal production insurance"	52
5.7.3.2	Subprogram "Improving knowledge and risk management related to agricultural and livestock production"	53
5.7.3.3	P16 Program indicators: Agropastoral risk management	54
5.8	AXIS 8 (A8): IMPROVING ENERGY EFFICIENCY	54
5.8.1	<i>P17 Program: Energy efficiency of biomass energy chains</i>	55
5.8.2	<i>P18 Program: Energy efficiency of means of production and transmission of electric power.</i> Erreur ! Signet non défini.	
5.8.3	<i>P19 Program: Master of energy demand</i> Erreur ! Signet non défini.	
5.9	PIN 9 (A9): RENEWABLE ENERGY PROMOTION	ERREUR ! SIGNET NON DEFINI.
5.9.1	<i>P20: Accelerated & Project management of hydropower development</i> Erreur ! Signet non défini.	
5.9.2	<i>P21 Program: Improving mix energy in a positive eco-balance</i> Erreur ! Signet non défini.	
5.10	AXIS 10 (A10): IMPROVING ACCESS TO MODERN ENERGY SERVICES	ERREUR ! SIGNET NON DEFINI.
5.10.1	<i>P22 Program: Rural and peri-urban electrification</i>	Erreur ! Signet non défini.
5.10.2	<i>P23 Program: Domestic fuels to wood energy substitution</i>	Erreur ! Signet non défini.
5.10.3	<i>P24 Program: Rural access to modern energy</i> Erreur ! Signet non défini.	
5.10.4	Program Monitoring Indicators "Energy and Energy Efficiency"	Erreur ! Signet non défini.
5.11	PIN 11 (A11): DEVELOPMENT OF A COMMUNICATION STRATEGY AND ADVOCACY ON CLIMATE CHANGE	61
5.12	AXIS 12 (A12): CAPACITY BUILDING OF ACTORS IN COMMUNICATION AND ADVOCACY	ERREUR ! SIGNET NON DEFINI.
5.13	AXIS 13 (A13): CAPACITY BUILDING OF NATIONAL INSTITUTIONS AND FRAMEWORKS	ERREUR ! SIGNET NON DEFINI.
5.13.1	Subprogram: Institutional Capacity	Erreur ! Signet non défini.
5.13.2	Subprogram: Strengthening the capacity of groups of actors to the implementation of Multilateral Environmental Agreements (MEAs)	Erreur ! Signet non défini.
5.13.3	Subprogram: Strengthening governance capacity of energy sector	Erreur ! Signet non défini.
5.14	AXIS 14 (A14): STRENGTHENING CLIMATE INFORMATION SYSTEMS AND THE SYNERGY BETWEEN RESEARCH AND DEVELOPMENT STRUCTURES	ERREUR ! SIGNET NON DEFINI.
5.14.1	<i>P30 Program: Program for Information production and information dissemination means for Climate Change</i>	Erreur ! Signet non défini.
5.14.1.1	Subprogram: Strengthening the production potential of information on climate change	Erreur ! Signet non défini.
5.14.1.2	Subprogram: Tools development and use of information systems of Climate Change	Erreur ! Signet non défini.
5.14.1.3	P32 Program indicators: Program for Information production and information dissemination means for Climate Change	Erreur ! Signet non défini.
5.14.2	<i>P31 Program: Capacity building of stakeholders in the use of information on climate change</i>	Erreur ! Signet non défini.
5.14.2.1	Subprogram: Strengthening the capacities of technical services to the use of information on climate change	Erreur ! Signet non défini.

5.14.2.2	Subprogram: Strengthening private sector capacity, civil society and local communities to the use of information on climate change	Erreur ! Signet non défini.	
5.14.2.3	P16 Program indicators: Agropastoral risk management	Erreur ! Signet non défini.	
5.15	AXIS 15 (A15): STRENGTHENING CAPACITY TO MOBILIZE FINANCIAL AND TECHNICAL PARTNERSHIPS ...	ERREUR ! SIGNET NON DEFINI.	
	NON DEFINI.		
5.15.1	<i>P32 Program: Improving capacity building of executives in the field of negotiations</i>	Erreur ! Signet non défini.	
5.15.2	<i>P33 Program: Improving access conditions to Climate Fund</i>	Erreur ! Signet non défini.	
5.15.3	<i>P34 Program: Advocacy for mobilizing technical and financial resources to the regional bodies.</i>	Erreur ! Signet non défini.	
VI.	CHAPTER 7: ASSESSMENT OF CIP SR COSTS		71
6.1.	COST ESTIMATION STANDARDS		71
6.1.1	<i>Standards allocation of international climate fundings</i>		71
6.1.2	<i>Estimation bases CIP SR costs.....</i>		71
6.2.	RPP COST ASSESSMENT AND OVERALL CIP		73
VII.	RESOURCES MOBILIZATION STRATEGY, INSTITUTIONAL ARRANGEMENTS AND MONITORING AND EVALUATION PLAN FOR THE IMPLEMENTATION OF CIP SR.....	ERREUR ! SIGNET NON DEFINI.	
VIII.	RISK ANALYSIS	ERREUR ! SIGNET NON DEFINI.	
8.1	SOCIOPOLITICAL INSTABILITY OF THE STATES	ERREUR ! SIGNET NON DEFINI.	
8.2	LOW DOMESTIC RESOURCES MOBILIZATION OF THE STATES.....	ERREUR ! SIGNET NON DEFINI.	
8.3	PERSISTENCE OF CAPACITY DEFICIT	ERREUR ! SIGNET NON DEFINI.	
8.4	REGIONAL AND INTERNATIONAL UNFAVORABLE CONJUNCTURE	ERREUR ! SIGNET NON DEFINI.	
8.5	CLIMATIC VARIATIONS AND HUMANITARIAN EMERGENCIES.....	ERREUR ! SIGNET NON DEFINI.	
NOTES	ERREUR ! SIGNET NON DEFINI.	
	APPENDIX 1: RPP AND CIP SR OF BENIN (IN US \$ MILLION)		88
	APPENDIX 2: RPP AND CIP-BR OF BURKINA FASO (IN US \$ MILLION)		94
	APPENDIX 3: RPP AND CIP SR OF CAMEROON (IN US \$ MILLION).....		100
	APPENDIX 4: RPP AND CIP SR OF CAPE VERDE (US \$ MILLION).....		106
	APPENDIX 5: RPP AND CIP SR OF COTE D'IVOIRE (IN US \$ MILLION)		112
	APPENDIX 6: RPP AND CIP SR OF DJIBOUTI (IN US \$ MILLION)		118
	APPENDIX 7: RPP AND CIP SR OF ERITREA (IN US \$ MILLION).....		124
	APPENDIX 8: RPP AND CIP SR OF ETHIOPIA (IN US \$ MILLION).....		130
	APPENDIX 9: RPP AND CIP SR OF GAMBIA (IN US \$ MILLION).....		136
	ANNEX 10: RPP AND CIP SR OF GUINEA (IN US \$ MILLION)		142
	APPENDIX 11: RPP AND CIP SR OF MALI (IN US \$ MILLION)		148
	ANNEX 12: RPP AND CIP SR OF MAURITANIA (US \$ MILLION).....		154
	ANNEX 13: RPP AND CIP SR OF NIGER (US \$ MILLION)		160
	ANNEX 14: RPP AND CIP SR OF NIGERIA (IN US \$ MILLION).....		166
	APPENDIX 15: RPP AND CIP SR OF SENEGAL (US \$ MILLION).....		173
	ANNEX 16: RPP AND CIP SR OF SUDAN (IN US \$ MILLION)		179
	ANNEX 17: RPP AND CIP- SR OF CHAD (US \$ MILLION).....		185
	ANNEX 18: TERMS OF REFERENCE		198

LIST OF TABLES

Table 1: Programs and subprograms Axis A1: Restoration and rehabilitation of degraded lands and fragile ecosystems	32
Table 2: P1 Program Indicators : Support for national and regional programs of lands restoration	34
Table 3: P2 Program Indicators: Integrated management of sensitive and important environments for strengthening resilience	35
Table 4: Programs and subprograms Axis 2: Strengthening Carbon sequestration capacity	Erreur ! Signet non défini.
Table 5: P3 Program Indicators: Support for Recapitalization of natural ecosystems important for carbon sequestration	36
Table 6: P4 Program Indicators: Promotion of reforestation plans in the context of carbon sequestration	37
Table 7: Programs and subprograms Axis 3 (A3): Improving knowledge and conservation / water resources management	38
Table 8: Programs and subprograms of the Axis (A4): Access to clean water and productive uses	Erreur ! Signet non défini.
Table 9: Programs and subprograms Axe 5 (A5): Strengthening the inter-state cooperation for great synergy actions in water resources management	Erreur ! Signet non défini.
Table 10: Programs and subprograms Axis 6: GHG reduction in the agricultural sector	Erreur ! Signet non défini.
Table 11: Program indicators "Promoting low carbon farming systems"	43
Table 12: Program indicators "Promoting low carbon animal production systems"	45
Table 13: Programs and subprograms Axis 7 (A7): Promotion of sustainable production systems in the context of adaptation to climate change	Erreur ! Signet non défini.
Table 14: P14 Program indicators: Promoting intensification of agricultural and animal production models.	48
Table 15: P15 Program Indicators: Restoration of agricultural and pastoral lands	52
Table 16: P16 Program Indicators: Agricultural and pastoral risk management	54
Table 17: Programs and subprograms Axis 8: Improving energy efficiency	54
Table 18: Programs and subprograms Axis 9: Promotion of Renewable Energy	Erreur ! Signet non défini.
Table 19: Programs and subprograms Axis 10: Improving access to modern energy services....	Erreur ! Signet non défini.
Table 20: Monitoring Indicators component "Improving the overall energy efficiency"	Erreur ! Signet non défini.
Table 21: Monitoring indicators of the "Improvement of the national energy mix by the contribution of new and renewable energy (RE)"	Erreur ! Signet non défini.
Table 22: Monitoring indicators component "Access to modern energy services (electricity, power or mechanical energy and modern cooking fuels)"	Erreur ! Signet non défini.

Table 23: Programs and subprograms Axis 11: Development of a communication strategy and advocacy on climate change.....	62
Table 24: Programs and subprograms Axis 12: Capacity building of communication and advocacy actors.....	Erreur ! Signet non défini.
Table 25: Programs and subprograms Axis 13: Capacity building of national institutions and frameworks.....	Erreur ! Signet non défini.
Table 26: P29 Program Indicators: Capacity building countries in the field of climate change	Erreur ! Signet non défini.
Table 27: Programs and subprograms Axis 14: Strengthening climate information systems and the synergy between research and development structures.....	Erreur ! Signet non défini.
Table 28: P32 Program Indicators: Program for Information production and information dissemination means for climate change.....	Erreur ! Signet non défini.
Table 29: P33 Program Indicators : Capacity building of stakeholders regarding the use of information on climate change.....	Erreur ! Signet non défini.
Table 30: Programs and subprograms Axis 15: Strengthening capacity to mobilize financial and technical partnerships.....	Erreur ! Signet non défini.
Table 31: Synoptic view of the costs of the RPP and CIP SR per axis, program and subprogram.....	75
Table 32: Synoptic view of RPP costs and CIP SR per Country.....	80

LIST OF FIGURES AND MAPS

Figure 1 : Evolution of the rainfall index in the Sahel from 1950 to 2005, Source, AGRHYMET	Erreur ! Signet non défini.
Figure 2 : CIP-SR Division by axis and by phase	74
Figure 3 : CIP-SR Costs by country.....	Erreur ! Signet non défini.
 Map 1 : Lake Chad Evolution (1963-2006) – Source : PNUD, 2006.....	Erreur ! Signet non défini.
 Photo 1 : Floods in the Sahel (Source Association Racine).....	15
Photo 2 : Destruction of infrastructures by water erosion (Source Association Racine).....	15

LIST OF ANNEXES

Annex 1 : RPP and CIP-SR Synoptic view by country (In USD Millions)	85
Annex 2 : RPP and CIP-SR of Bénin (In USD Millions).....	Erreur ! Signet non défini.
Annex 3 : RPP and CIP-SR of Burkina Faso (in USD Millions)	Erreur ! Signet non défini.
Annex 4 : RPP and CIP-SR of Cameroon (in USD Millions)	Erreur ! Signet non défini.
Annex 5 : RPP and CIP-SR of Cape Verde (in USD Millions)	Erreur ! Signet non défini.
Annex 6 : RPP and CIP-SR of Côte d'Ivoire (in USD Millions).....	Erreur ! Signet non défini.
Annex 7 : RPP et CIP-SR de Djibouti (en Millions de dollars US)	Erreur ! Signet non défini.
Annex 8 : RPP et CIP-SR de l'Érythrée (en Millions de dollars US).....	Erreur ! Signet non défini.
Annex 9 : RPP et CIP-SR de l'Éthiopie (en Millions de dollars US)	Erreur ! Signet non défini.
Annex 10 : RPP et CIP-SR de la Gambie (en Millions de dollars US).....	Erreur ! Signet non défini.
Annex 11 : RPP et CIP-SR de la Guinée (en Millions de dollars US).....	Erreur ! Signet non défini.
Annex 12 : RPP et CIP-SR du Mali (en Millions de dollars US)	Erreur ! Signet non défini.
Annex 13 : RPP et CIP-SR de la Mauritanie (en Millions de dollars US)	Erreur ! Signet non défini.
Annex 14 : RPP et CIP-SR du Niger (en Millions de dollars US)	Erreur ! Signet non défini.
Annex 15 : RPP et CIP-SR du Nigeria (en Millions de dollars US).....	Erreur ! Signet non défini.
Annex 16 : RPP et CIP-SR du Sénégal (en Millions de dollars US).....	Erreur ! Signet non défini.
Annex 17 : RPP et CIP-SR du Soudan (en Millions de dollars US).....	Erreur ! Signet non défini.
Annex 18 : RPP et CIP-SR du Tchad (en Millions de dollars US)	Erreur ! Signet non défini.
Annex 19 : CIP SR Logical context	190
Annex 20 : Reference Terms	Erreur ! Signet non défini.

LIST OF ACRONYMS

ABN	Niger Basin Authority
ABV	Authority of the Volta Basin
ACMAD	African Center for Meteorological Application for Development
AEP	Drinking water supply
AFC	African Finance Corporation
AFD	French Development Agency
AFOLU	Agriculture, Forestry and Other Land Use
AGR	Income Generating Activities
AGRHYMET	Regional Center for Training and Application in Agro-Hydro-Meteorology
AIC	Smart Agriculture in Climate
AND	Designated National Authority
ODA	Official Development Assistance
ASE	Access to Modern Energy Services
BAD	African Development Bank
IDB	Islamic Development Bank
BM	World Bank
LCBC	Commission of the Lake Chad Basin
CCD	Fight against Desertification Convention
UNFCCC	Convention United Nations Framework on Climate Change
NDC	Nationally Determined Contribution
ECOWAS	Economic Community of West African States
ECCAS	Economic Community of Central African States
CILSS	Inter-state Committee for the Fight against Drought in the Sahel
CLSG	Power Interconnection Project
CO2	Carbon dioxide
COP	Conference Of Parties / COP
CORAF	West and Central African Council for Research and Development
SCOND	Determined National Contribution Expected
IDRC	Research Center for International Development
PRSP	Strategic Framework for the Fight against Poverty
SDC SDC	for Development and Cooperation of Switzerland
DEEC	Directorate of Environment and Classified Establishments Development Agricultural development
DFID	Department for International Development (United Kingdom)
DNSE	National Environmental Monitoring Devices
ECSD	Strategic Document for Growth and Jobs
ECOWAP	Regional Agricultural Policy of ECOWAS
ECREEE	ECOWAS Center for Renewable Energy and Energy Efficiency in Africa West
RE	New and Renewable Energy
FAO	United Nations Food and Agriculture
FAO	United Nations Food and Agriculture Organization
GEF / GEF	Fund for Global Environment
FGEF	French Fund for Global Environment
IFAD	International Fund for Agricultural Development
IMF	International Monetary Fund
FVC	Green Climate Fund
SLM	Sustainable Land Management
GEEREF	Global Energy Efficiency and Renewable Energy Fund

GHG	Greenhouse gas effects
EMG-CO2	CO2 gas equivalent
IPCC	Inter-Government Group for Studies on Climate
GMN	National Multisectoral Group
ICRAF	International Center for Research in Agro-Forestry
ICRISAT	International Crop Research Institute for Semi-Arid TroCIPs
IGAD	Intergovernmental Authority on Development
GGWSSI	Initiative of the Great Green Wall of the Sahara and Sahel
IRENA	International Renewable Energy Agency
LBC	Lamp Low Consumption
LCD	Combat Desertification
LPDSE	Letter of the Energy Sector Development Policy
CDM	Clean Development Mechanism
MESU / DD	Ministry of Environment, Safety and Urban Development durable
NASPA-CCN	Adaptation National Strategy and Plan of Action on Climate Change for
NEPAD	New Partnership for African Development
NEPAD	New Partnership for Africa's Development
OECD	Organization for Economic Cooperation and Development
ODD	Sustainable Development Goals
MDGs	Millenium Objectives for development
WMO	World Meteorological Organization
OMVG	Organization for the Development Gambia River Basin Development
OMVS	Organization for the Development of the Senegal River
ONC	National Coordination Body
NGO	Non-Governmental Organization
OSS	Observatory of the Sahara and Sahel
PADD	Sustainable Development Action Plan
PADLT	Development Action Plan Lake Chad
PAN LCD	National Action Program to Combat Desertification
PANA	National Action Plan for Adaptation
NEEAPs	Action Plan for the Promotion of Energy Efficiency
NREAPs	Action Plan for Renewable Energy Promotion
RSAP-RV-WA	Sub Regional Action Program for Vulnerability Reduction
CAADP / CAADP	Detailed Program of Agricultural Development in Africa
GDP	Gross domestic product
CIP SR	Climate Investment Plan for the Sahel Region
PIP	Priority Investment Program
LDCs	Least Developed Countries
PNA	National Adaptation Plan
GNP	Gross national product
NCCP	National Climate Change Program
NIPA	National Agricultural Investment Plan
UNDP / UNDP	United Nations Development Program
UNEP	United Nations Environment Program
PPP	Public Private Partnership
HIPC	Highly Indebted Poor Countries
PRIA	Regional Agricultural Investment Program
PTFM	Multifunctional Platform for relief Women
REPSAHEL	Project Improving Resilience of Sahelian populations
RLACC	Rural Livelihood's Adaptation to Climate Change in the Horn of Africa

ROSELT	Network of ecological monitoring in the long term
CPRS	Growth Strategy and Poverty Reduction
SE4ALL	Sustainable Energy for All
SED	Domestic Energy Strategy
AIDS	Swedish International Development Agency
WSSD	World Summit on Sustainable Development
TeP / inhabitant	Oil Tanker equivalent // hbt
UA	African Union
EU	European Union
WAEMU	Economic Union and West African Monetary
UNCCD	United Nations Convention to Combat Desertification
UNESCO	United Nations Educational, Scientific and Cultural
USD	US Dollar
WAPP	West African Power Pool of ECOWAS

GLOSSARY

Adaptation: is the adjustment in natural or human systems in response to climatic stimuli or their effects, which moderates harm or exploits beneficial opportunities (third IPCC report). There are two types of adaptation:

Hazard (climate): physical phenomena, quotas can support over an area representing the likelihood that an extreme event may occur.

Mitigation: human intervention to reduce emissions of greenhouse gas from different sources or enhance removals by sinks.

Adaptability: adjustment capacity of a system or organization to climate change (including climate variability and extremes) to moderate potential damages, to exploit the opportunities, or making face the consequences (MEEDDM).

Climate change: According to the IPCC, climate change refers to a change in the state of the climate that can be detected by changes in its properties and that persists for an extended period, typically decades. The UNFCCC, succinctly defines climate change as changes attributed directly or indirectly to human activity that alters the composition of the global atmosphere and which is in addition to natural climate variability observed over comparable time periods.

Climate: This is the average state of the atmosphere at a place and for a period of several decades (the standard period is 30 years). The average values of the parameters, and their extreme values of certain phenomena occurrence frequencies are considered. We talk about current climate, but also past and future climate.

Greenhouse effect: is essentially a natural phenomenon whereby the atmosphere, through some of its constituents, captures the surface of the earth heat emitted by the earth under the effect of solar radiation (without this action the average surface temperature of earth would be -18°C instead of 15°C). The atmospheric constituents involved in the phenomenon of the greenhouse effect are water vapor, carbon dioxide, ozone, methane and nitrous oxide commonly known as greenhouse gases.

Exposure to hazards or climatic events: this is the type, extent and pace of climate variations and climate events to which communities and ecosystems are exposed.

Greenhouse gas (GHG) are gases that absorb a part of the solar rays by redistributing them in the form of radiation that meet other gas molecules, repeating the process and creating the greenhouse effect, with increasing temperature. The increased concentration of greenhouse gases in Earth's atmosphere, originating from human activities (fossil fuels), is indeed a major factor of global warming.

Resilience: It is the magnitude of change a system can undergo without changing the state. Ecological resilience: the degree to which disruptions can be absorbed by a system before it changes from one state to another (Ludwig et al., 2002) and social resilience: the ability of groups or communities to adapt and learn to cope with stress and to external political, social, economic or environmental (Adger, 2000) disturbances.

Sensitivity: proportion in which a presentation element, a community or organization is likely to be affected by the event of a hazard (weather event);

Climate variability: inherent characteristic of climate which is manifested by changes and deviations in time. The degree of climate variability can be described by the differences in the long-term average of the observed values of climatic parameters (temperature, humidity, rain, season length).

Vulnerability: condition resulting from physical, social, economic or environmental predisposing factors set at the event of a hazard (a weather event) to suffer, harm or damage.

The vulnerability is a relationship between the probability of an event event (shock) and the ability of the affected population to cope with it "(Chambers 1990).

EXECUTIVE SUMMARY

The process of developing a Climate Investment Plan for the Sahel region has its foundation of the "African Summit Action in favor of continental co-emergence" held on November 16, 2016 in Marrakech, which brought together several Heads of State and delegations of Africa, on the sidelines of the 22th Conference of Parties to the UN Convention on climate change (COP 22). This is, for Africa, to translate its "ambition to be part of a sustainable co-emergence of trail, building its own model of inclusive and sustainable development, meeting the legitimate aspirations of African people and preserving interests of future generations."

The realization of this ambition requires that Africa and the Sahel take control of their destiny, to speak with one voice and to join forces to fight against climate change and building resilience.

A region with high vulnerability to climate change

The Sahel region, one of the largest semi-arid and arid areas of the world, stretching from the Atlantic Ocean to the Horn of Africa, an area of about 10 million km² includes 17 countries that have similar geo-climatic characteristics (Benin, Burkina Faso, Cameroon, Cape Verde, Cote d'Ivoire, Gambia, Guinea, Djibouti, Ethiopia, Eritrea, Mali, Mauritania, Niger, Nigeria, Senegal, Sudan and Chad). It is a mosaic of contrasting eco-climatic areas and ecosystems under high climate variability characterized by changes in rainfall patterns, extreme temperatures, recurrent droughts with noticeable effects on farmlands, pastures and water availability.

The Sahel region is subject to extreme vulnerability to climate change, which weakens both the living conditions of populations and ecosystems (Sub-Saharan Africa has a soil degradation rate of 67% of land of which 25% is severely degraded, and 4% to 7% unrecoverable). Coastal erosion increasingly accentuated (1 to 2 meters per year in Senegal and Djibouti and over 20 to 30 meters per year in the Gulf of Guinea) causes the gradual disappearance of the adjoining infrastructure to the ribs and protective cords and the degradation of coastal ecosystems (mangrove stands and coral reef).

Climate change is today one of the main concerns of humanity and represents a potential threat to human societies and the planet. The search for global and regional strategies, to address this challenge requires the widest possible cooperation by all countries and a capacity of effective and appropriate responses to climate change adaptation and mitigation of global emissions of Greenhouse gases effect. These strategies aim to improve resilience of ecosystems and populations to the adverse effects of this phenomenon.

Major efforts undertaken by States to respond to threats

Faced with the situation of vulnerability, the States of the Sahel region as well as basin organizations and regional organizations have developed strategic visions to reflect their respective long-term ambitions, relying on certain initiatives at global level (Rio conventions, 2030 Agenda, SE4ALL) and continental (2063 Agenda) to integrate climate change to their development process. These long-term visions were then translated into medium term strategic frameworks, which were endowed with sectoral policies, strategies and program at different scales (national, sub-regional and regional). In the various fields (environment, water resources, agropastoral, energy and energy efficiency etc.), programs and projects have been implemented to face the threat and to preserve the populations and ecosystems of the Sahel region.

A Strong vision from the Marrakech Summit

CIP SR translation of the Marrakech Summit Vision, wants a coherent whole that is based on: (i) objectives and outcomes; (ii) strategies to achieve those objectives and results; (iii) programs and subprograms to achieve these results; iv) a resource mobilization strategy; (iv) an implementation

framework for the implementation of the different programs; v) a monitoring and evaluation mechanism to ensure effectiveness.

CIP SR as operationalization tool, over the period 2018-2030, of the Marrakesh Declaration and Vision which is clear, has set itself the overall objective to contribute to the global effort mitigation of emissions of Greenhouse gases (GHGs) and increase adaptive capacity and resilience of the Sahel region to climate change.

The specific objectives of the CIP SR 2018-2030 are: i) Strengthening Environmental mitigation action of GHG emissions and adaptation / resilience to climate change; ii) improve the availability of water resources for human consumption and the development of economic activities; iii) Ensure the sustainability of agricultural and pastoral production systems to the effects of climate change; iv) Promoting production options, sustainable energy transmission and consumption; v) Strengthening capacities for information, awareness and advocacy on climate change; vi) Enhancing institutional capacity and improve environmental governance.

The Climate Investment Plan as a specific response and long-term shared vision for the resilience of populations and ecosystems in the Sahel Region.

The major challenges for the countries of the Sahel region are those called the situation of environmental fragility of countries in the region and the urgent need to achieve: i) create the conditions for population resilience and Sahelian ecosystems; ii) improve environmental governance; iii) the transition to the green economy; iv) ensure good demographic transition and rapid change in the demographic dividend; v) preserve the environment.

In this document, the approach is a strategic plan a for long-term investment for the Sahel region to face the challenges of climate change. It aims to support and promote regional and international cooperation for the mobilization of a stronger climate action and ambitious on the part of all stakeholders. It covers the period 2018-2030 and is divided into three (3) programmatic documents, on three (3) implementation phases:

- The Regional Priority Program 2018-2020;
- The five-year program 1 (PQ1) 2021-2025;
- The Five-Year Program 2 (PQ1) 2026-2030.

In doing so, the CIP-SR is a specific response and a long-term shared vision for the resilience of populations and ecosystems in the Sahel Region. The formulation of its strategic direction on 2030, relied heavily on the opportunities, challenges and key issues highlighted in the diagnostic analysis, under the light of the outcome of the Vision Marrakech Declaration and regional and international agendas.

On the basis of the diagnostic analysis and the major challenges identified, the programmatic structure of the CIP-SR was broken down into six axes, 23 programs, and 69 sub-programs.

These strategic areas are coherent, interrelated and harmoniously structured to provide, through programs and subprograms they develop, appropriate solutions at national and subregional levels, to achieve the objectives and results plan and to meet the challenges of climate change in the Sahel Region.

The 6 axes of the CIP-SR are: i) Restoration and rehabilitation of degraded lands; (ii) Integrated water resources management; (iii) Sustainable management of agricultural and pastoral systems; (iv) Improved energy efficiency and access to clean energy; v) development of communication and advocacy; and vi) Capacity building.

Axis 1 "Restoration and rehabilitation of degraded lands" is organized around 4 programs and 10 sub-programs.

In fact, the Sahel Region is made up of countries with predominantly rural economies, based on the exploitation of the natural environment. For this reason, the concern of these countries in the fight against climate change, is to implement as a priority programs of adaptation of populations, their livelihoods and ecosystems that provide goods and services.

In particular, these countries place a high priority on Sustainable Land and Water Management (SLM/E) as responses to the effects of climate change.

In addition, all countries in the Sahel Region are considering enhancing the potential for carbon sequestration by improving vegetation cover, particularly national forest cover through the implementation of real sustainable management plans for natural forests and forests and strengthening reforestation efforts by the state, local communities and the private sector.

Axis 2 "Integrated management of water resources" is broken down into 6 programs and 19 sub-programs.

Improving the knowledge of the water domain is important, on the one hand, to measure the impact of climate change phenomena on surface water resources and groundwater reserves, through their level of availability and their behavior and, secondly, contribute to the implementation of effective actions for the preservation and sustainability of the resource in time and space.

The rate of access to drinking water is a basic indicator for characterizing the level of development of States. These objectives have been reaffirmed through international commitments, including the Sustainable Development Goals.

Axis 3 "" Sustainable Management of Agricultural and Pastoral Systems "is broken down into 5 programs and 10 sub-programs.

Several planned actions in the agro-pastoral sector have implications for both mitigation of greenhouse gas emissions and adaptation to climate change. The classification of a program in one or other of the categories takes into account the dominant dimension of its major actions.

Axis 4 "Improving energy efficiency and access to clean energy" is broken down into 3 programs and 12 sub-programs.

Planned investments to improve energy efficiency include reducing GHG emissions. These investments target sub-sectors and energy sectors where the yields of the production, transmission (transport and distribution) and/or energy consumption modes are ineffective, ie, in order of importance: the wood energy sector , thermal power generation, transportation in general, transmission of electrical energy (networks) and energy consumption habits in public buildings. These are essentially investments to make huge energy savings.

The renewable energy potentials of the Sahel region are enormous, but under exploited because of the technological and economic backwardness of the region. In parallel with this state of affairs, the region

is known for its energy poverty measured through its low level of conventional energy consumption and its dependence on biomass energy in a more or less irreversible loss.

The energy underdevelopment of the Sahel region is manifested by its low electrification rate. In fact, none of the countries in the region has achieved 100% urban electrification rate, and the rate of access to electricity in rural areas is between 5% and 25% of the rural population according to the country.

Axis 5 "Communication and Advocacy Development" is divided into 2 programs and 5 sub-programs.

Communication on climate change is of paramount importance because of the issues involved. This is why the development of communication and advocacy on climate change is a priority to be taken into account in the actions of the CIP-SR.

Moreover, the involvement of local communities, the very ones that are the most vulnerable to the deterioration of ecosystems, is essential through awareness campaigns, information and capacity building.

In addition, relevant advocacy actions to be undertaken towards partners will provide the necessary visibility to the CIP-SR.

Axis 6 "Capacity Building" is structured into 3 programs and 13 subprogrammes.

Strengthening institutional and technical capacities of the administration, research and development institutions, organizations of society civil society and local actors takes into account the equipment of structures in tools and equipment, access to these as well as their use. It also takes into account the appropriation of tools and methods by the stakeholders.

The occurrence of extreme weather events requires the institution of research, observations and the collection of data and information so that their analyses and interpretations by national competences can inform the various actors and the populations on decision-making. Information systems, databases and warning systems need to be developed to facilitate decision-making on adaptation measures in different areas of economic activity.

A Regional Priority Program (RPP 2018-2020) constructed based on emergency actions

The Regional Priority Program (RPP 2018-2020) was constructed based on actions identified as priorities in each sector / theme. The RPP is prepared based on: (i) a prioritization of actions in each sector; and (ii) real opportunities for resource mobilization. It is a priority portfolio measures, regional projects and programs to meet the urgent needs of the Sahel region.

The RPP is a set of ordered programs, presented by strategic axis, program, sub-program and country over the triennium. It aims to define precisely how the sectoral strategic choices made will be made over the short and medium term.

The RPP includes in particular six (06) Flagship Initiatives whose implementation will effectively contribute to the launch of the ICSRP: (i) Phare Land Reclamation Initiative; (ii) Phare Initiative to Support Integrated Water Resources Management in the Grand Bassins Versants du Sahel (Basin Organizations); (iii) Initiative on the Development of the Chain of Agricultural and Forestry Values

through the Dissemination of Resilient Technologies; (iv) Pastoralism Management Initiatives; (v) Promotion of alternative energies; (vi) Capacity Building Initiative for Climate Change Adaptation in the Sahel.

While doing so, the RPP aims to create and put in place the optimal conditions for the start of the ICP-RS, notably through the implementation of actions. Prerequisites whose implementation will facilitate the implementation of the Quinquennial Programs PQ1 (2021-2025) and PQ2 (2026-2030).

Evaluation standards and cost estimates.

- For axis 1, the cost estimate was made on the basis of: (i) NDC project forecasts; (ii) average costs of equities based on multi-country averages; (iii) TDM areas based on standards provided by some countries; iv) taking into account limited areas for the management of fragile ecosystems (wetlands, mangrove forests, etc.) because of its experimental nature; v) the allocation of 10% of the development costs to actions related to these developments (fight against deforestation or clearing, fight against bush fires, etc.).
- For axis 2, the estimates were based on NDC project forecasts.
- For axis 3, estimates were made from: i) NDCs and country projects; (ii) an indexation of the actions of the agropastoral domain on the demographic weight; (iii) a ratio of \$ +/-387 per capita; iv) 40% allocation for mitigation and 60% for adaptation.
- For axis 4, estimates are based on: i) the financial evaluation used to cost SE4ALL funding gaps countries of the Sahel Region; (ii) indicative costs established by reference to already established cost standards. The costs are indicative and established in current value (2018). They are susceptible of evolution.
- For the axes 5 and 6 with transversal character, the estimate was made on the basis of the usual norms in the matter.

The overall cost of the 2018-2030 CIP-SR has been estimated at US \$ 392.709 billion distributed as follows:

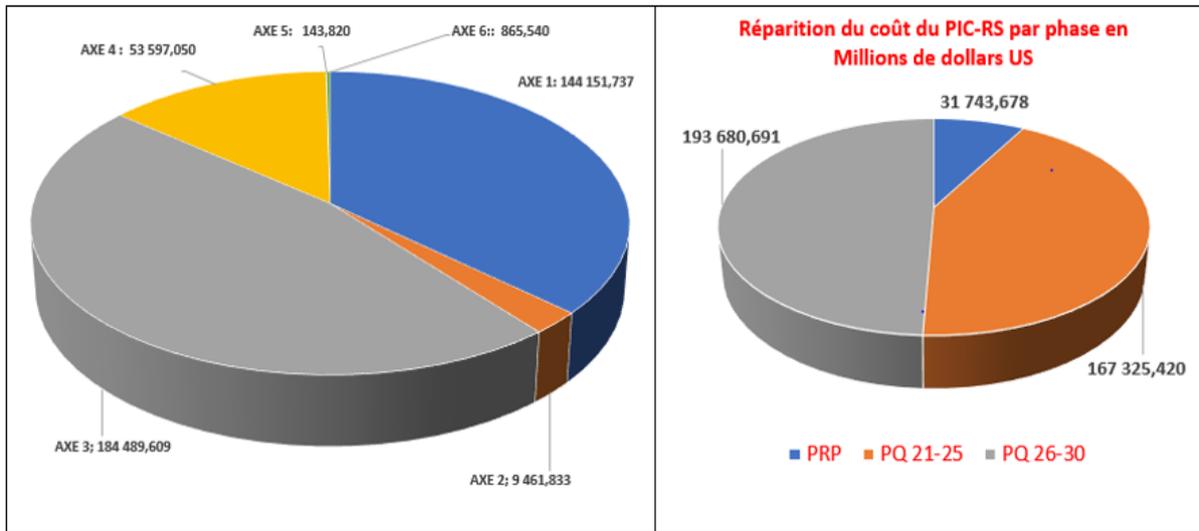
- RPP-SR (2018-2020): US \$ 31.743 billion
- PQ1 2021-2025: US \$ 167.325 billion;
- PQ 2026-2030: 193.680 billion US dollars.

The distribution of the costs of the CIP-SR is as follows:

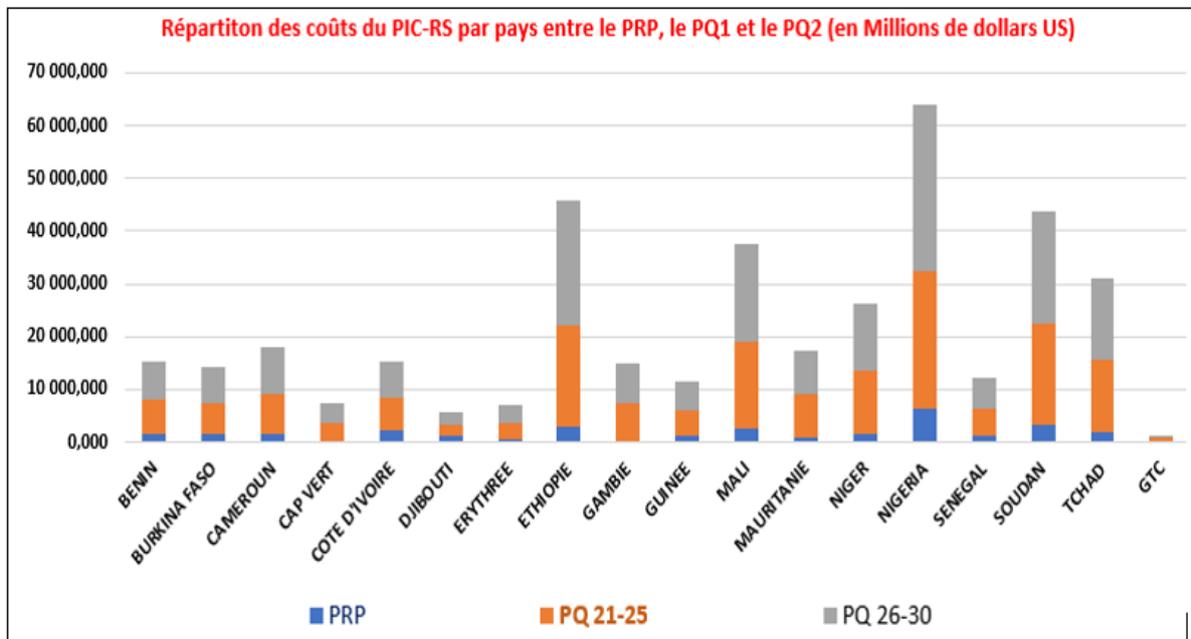
- Axis 1 "Restoration and rehabilitation of degraded lands": 144,152 billion US dollars including 180 million for the RPP.
- Axis 2 "Integrated Water Resources Management": US \$ 9.462 billion, of which US \$ 3.040 billion for RPP.
- Axis 3 "Sustainable Management of Agricultural and Pastoral Systems": US \$ 184.490 billion, of which US \$ 17.975 billion for RPP.
- Axis 4 "Improving Energy Efficiency and Access to Clean Energy": US \$ 53.597 billion, of which US \$ 10.081 billion is for RPP.
- Axis 5 "Communication and Advocacy Development: US \$ 144 million, including 35 million corresponding to RPP.

- Le total cost axis 6 "capacity building": 866 million US dollars of which 434 million corresponding to RPP.

The figures below give the distribution of the CIP-SR by Axis and by Phase.



In terms of the country distribution, it is highly heterogeneous due to differences in the estimates of



NDCs and the respective demographic weights of countries (see figure below).

A device that is both relevant and coherent to ensure implementation of the CIP-SR.

The mechanism for implementation of the CIP-SR is supported by: i) a resource mobilization strategy, with a communication and advocacy plan to mobilize partners and resources; needed around the financing of the Plan; (ii) an implementation framework for the implementation of the various programs and subprogrammes; (iii) a monitoring-evaluation mechanism to ensure effective implementation of the Plan.

Risks that could compromise the implementation of the CIP SR.

Successful implementation of the ICP-RS could be affected by the occurrence of several endogenous or exogenous risk factors. These factors include: (i) the sociopolitical instability of states; (ii) weak state leadership; (iii) weak domestic resource mobilization by States; (iv) the persistence of the capacity deficit; (v) an unfavorable sub-regional and / or international situation; and (vi) climatic hazards and humanitarian emergencies.

Also, it is necessary, already, to take steps and sustainable measures to mitigate these risks in order to, if not to thwart them, at least to mitigate them so that they can not constitute insurmountable constraints to the effective implementation of the CIP-SR.

GENERAL INTRODUCTION

Climate change is today one of the main concerns of humanity and represents a potential threat to human societies and the planet. The search for global and regional strategies to address this challenge requires the widest possible cooperation by all countries and a capacity of effective and appropriate responses to climate change adaptation and mitigation of global emissions of Greenhouse gases effects. These strategies aim to improve resilience of ecosystems and populations to the adverse effects of this phenomenon.

In this fight against the harmful effects of climate change, Africa, despite its low rate of emissions of greenhouse gases worldwide (7%), remains the most vulnerable area. This vulnerability affects both people and their livelihoods, namely agriculture, livestock, forestry, water resources, energy, infrastructure, health, etc.

The African continent has taken an active part in various meetings and climate negotiations. The "African Summit Action in favor of continental co-emergence" held in Marrakech on the sidelines of the 22th Conference of the Parties of the UN Framework Convention on Climate Change (UNFCCC), constituted the expression of the strong will of Africa "to take control of its destiny, to speak with one voice and to join forces to fight against climate change and strengthen its resilience." The Marrakesh Declaration said that results would, insisted on: i) the importance of proper implementation of Sustainable Development Goals, based on the Rio principles, especially that of "shared responsibility but differentiated " to meet the challenge of climate change; ii) the concrete and substantial commitment of African countries to contribute to the global effort against climate change.

To this end, the Summit decided to create three (3) committees dedicated to: i) the Sahel Region, chaired by the Republic of Niger; ii) the region of the Congo Basin, chaired by the Republic of Congo; iii) Island States, chaired by the Republic of Seychelles.

After its endorsement by the twenty-eighth session of the Assembly of the African Union (AU), held on January 30th and 31st 2017 in Addis Ababa, giving the legal basis and the continental legitimacy necessary for the effective creation of these three commissions, the Marrakesh Declaration as well as the main concrete mechanism for the implementation of the Paris Agreement in Africa in general and the Sahel in particular.

Under the presidency of the Republic of Niger, the Climate Commission of the Sahel Region is thus responsible for: i) the coordination and monitoring of the priority initiatives in the fight against climate change and sustainable development in this space; ii) mobilization of bilateral and multilateral partners in order to collect the necessary resources for the implementation of these initiatives among others.

To materialize the mission assigned to it as well, Niger, in partnership with all the countries of the Sahel region, initiated a participatory and inclusive process leading to the development of a Climate Investment Plan the Sahel Region (CIP SR 2018-2030) to ensure the short, medium and long-term resilience of populations and ecosystems of the concerned area.

In doing so, this CIP SR aims to become a specific response and a long-term shared vision for the resilience of populations and ecosystems in the Sahel Region.

I. CHAPTER 1: OBJECTIVES OF THE STUDY

The overall objective is to contribute, in the framework of the implementation of the Marrakesh Declaration, to the operationalization of the Commission for the Sahel Region.

The specific objectives of the study are:

1. Develop a diagnostic report on the state of play;
2. Develop a climate investment plan for the Sahel Region CIP SR (2018-2030) including a regional priority program RPP-SR (2018-2020) for the resilience of populations and ecosystems of the studied area;
3. Develop a resources mobilization strategy together with an CIP SR communication and advocacy plan;
4. Develop an institutional governance arrangement for the implementation of CIP SR (2018-2030) including a stakeholder analysis;
5. Stakeholders analysis
6. Develop a monitoring and evaluation plan for the implementation of CIP SR (2020-2030).

The expected results of the study are:

- A diagnostic report on the state of play to be developed;
- A Climate Investment Plan to be developed for the Sahel Region CIP SR (2018-2030) together with a Regional Priority Program RPP-SR (2018-2020) for the resilience of populations and ecosystems of the studied area;
- A resource mobilization strategy together with an CIP SR communication and advocacy plan to be developed;
- An institutional governance CIP SR (2018-2030) including a stakeholder analysis to be developed;
- A monitoring and evaluation plan for the implementation of CIP SR (2018-2030) is to be developed.

II. CHAPTER 2: METHODOLOGICAL APPROACH

The formulation process of the CIP-SR and other deliverables was conducted through several steps of which the main are: i) development of a comprehensive methodology of the study; ii) carrying out tasks in the Sahel; iii) developing the diagnostic report; iv) diagnostic report validation workshop; v) developing the CIP SR and other deliverables; vi) Validation Workshop CIP SR and other deliverables.

2.1 Developing a global methodology of the study

After its establishment, the first task for the consultants' team was to develop and submit to the discretion of the client, a comprehensive methodology for the conduct of the CIP SR formulation exercise and other deliverables.

After recalling the context of the study and the mandate of the mission, the methodology was based on the following areas:

- The Sustainable Development Goals (SDGs) adopted by the United Nations in September 2015, the 2036 Agenda of the African Union, the Paris Climate Conference and the Marrakesh Declaration, etc, as CIP SR foundations.
- The results-based Management (RBM), the intersectoral approach, inclusiveness, partnership and empowerment of the principles that guide the formulation process.
- The mechanisms for coordination and information sharing between the different actors in order to: i) ensure an organization and overall management of the mission (efficient planning, effective coordination, strict timetable of activities and the conduct of all phases of the study); ii) facilitate access to the database especially those available to stakeholders of the study, to generate useful exchanges with resource persons, understanding and collaboration between the consultants, the Ministry of the Environment of Niger and the Joint Working Group.
- The establishment of a sufficiently fluid mechanism for cooperation and communication between the consultants' team, the Directorate General for Sustainable Development and Environmental Standards of Niger, the Joint Working Group and the States, through: i) the creation of a system archiving of documents between the consultants for storing and sharing all of the collected documentation to the sharing and exploitation by each consultant; ii) a communication network between the consultants and the major players, including the names of the various stakeholders and their respective contacts (phone numbers, email addresses, fax addresses, countries...etc).
- Identification of stakeholders in this exercise (States, Basin Organizations, the specialized Subregional organizations, research institutions, the Ministries involved in climate change, Communities, civil society, the private sector, the technical and financial partners, etc.
- Structuring ratios: i) volume 1: diagnostic report on the status of the premises; ii) Volume 2: CIP SR 2018-2030 and SR-RPP 2018-2020 (incorporating a resources mobilization strategy together with an CIP SR communication and advocacy plan, an CIP SR (2018-2030) institutional governance system including a stakeholder analysis and a monitoring and evaluation plan for the implementation of the CIP SR 2020-2030.
- The development of a timetable and a work plan identifying the various stages of the process.

2.2 Missions in the Countries

2.2.1 Repartition of consultants teams

The consultants' team conducted, from March 3rd to March 28th 2018, missions in the countries of the Sahel region in order to collect relevant information and to conduct direct discussions with stakeholders (governmental, sub-regional, regional and international institutions) as part of the development of various deliverables. To this end, three (3) teams were formed to sail the following 13 countries:

- Team 1: Abdou Souley and Sidi El Moctar Cheiguer : Gambia, Cape Verde, Guinea Conakry, Cote d'Ivoire;
- Team 2: Aminou Tassiou and Alioune Tamchir THIAM: Nigeria, Mali, Benin, Burkina Faso, Cameroon;
- Team 3: Aboubacar ISSA and Djibrine Ngarmig Nig: Djibouti, Ethiopia, Sudan, And Eritrea.

Regarding Chad, Mauritania and Senegal, it was agreed, for practical reasons, to ensure the coverage by respective consultants residing in those countries. And regarding Niger, the approach adopted was to ensure the exercise of gathering and meeting with stakeholders by all 6 consultants, just before leaving for the missions in other countries.

The specific objectives of the missions in the country are:

- Meet local stakeholders to discuss the implementation process of the policy of adaptation and resilience to climate change;
- Meet the leaders of organizations in regional basins and organizations as well as technical and financial partners to review current actions to mobilize finance for adaptation and resilience to the benefit of member states;
- Make an inventory of visions, strategies, policies, programs and projects and identify barriers to mobilizing partnerships and funding necessary for the implementation of public policies for populations to climate change.

2.2.2 Methodology and conduct of missions

The country missions took place from March 3rd to March 21st, 2018 for team 1, from March 3rd to March 23rd for team 2 and from March 15th to March 28th, 2018 for team 3 team. However, due to difficulties occurred last time, especially related to visa issues, 11 (eleven) countries have been visited, team 3 could not get in Eritrea and Sudan, despite all efforts deployed diplomatically to succeed.

The consultants' teams spent an average of 2 to 3 business days by country. Depending on the case, according to the approaches taken by different countries, the consultants teams held introductory meetings involving several representative structures (Benin, Cameroon Mali, Guinea Conakry, Gambia) with only the focal point and colleagues (Burkina Faso, Nigeria, Cape Verde, Cote d'Ivoire) supplemented by individual meetings with representatives of several stakeholders (sub-regional structures, international institutions, etc.).

During the introductory meetings and individual interviews, the consultant teams recalled first, the context of the CIP SR preparation initiative and presented in accordance with the maintenance manual adopted, the five main themes around which the interviews were conducted:

- The level of preparation of the information and awareness material for the creation of a national vision on the dimensions and challenges of environment and Climate Change.
 - ✓ Advocacy and knowledge sharing initiated on environment and Climate Change.

- ✓ Prospective Studies conducted on environment and Climate Change.
- The national thematic appropriation level and international conventions on the environment and climate change.
 - ✓ Level and indicators of national ownership of issues and challenges.
 - ✓ Active participation of national to international meetings and exchanges on the Environment and Climate Change.
- Consideration of level and integration of environmental issues and climate change in the formulation and implementation of policies and national development strategies.
 - ✓ Creation and / or strengthening an organizational framework for dialogue and cooperation.
 - ✓ Anchoring and effective integration of problems and issues related to the environment and climate change into national policies and strategies for development and poverty reduction.
 - ✓ Formulation of policies and national strategies on the environment and climate change.
 - ✓ Program and project formulation relating to the Environment and Climate Change.
- Achievements, constraints and prospects for mobilizing partnerships, cooperation and funding to the Environment and Climate Change.
 - ✓ Mobilization against the environment and climate change.
 - ✓ Mobilization for Sustainable Energy for All by 2030 (Global Initiative SE4ALL-2030).
- Formulation and implementation of thematic programs of resilience and adaptation to climate change.
 - ✓ Biodiversity programs and fragile ecosystems.
 - ✓ Sustainable management of natural resources programs.
 - ✓ Program on pollution, environmental pollution and waste management.
 - ✓ Crises prevention programs and raise.
 - ✓ Adaptation programs to climate change.

2.2.3 Results of the missions

At the end of meetings and interviews, existing documentation on the toCIPs discussed, was awarded to the team of consultants or promised for later transmission. The list and all documents are collected on DROPBOX created by the team and fed in real time. Overall, despite the length of very short stays in every country, missions have met the expectations of the consultants.

While all countries visited have made commitments to the adverse effects of climate change through their contribution determined at the national levels to reduce greenhouse gas emissions, it is clear from interviews that the level of preparedness of the countries in terms of information and education for the creation of a national vision on the dimensions and challenges of Environment and climate change is highly heterogeneous.

The most advanced countries in this area seem to be the Gambia, Guinea Conakry, Mali, Burkina Faso and Nigeria. As for Cote d'Ivoire and Djibouti, their strengths lie primarily in the development of a holistic approach in the field of climate change transcend organizational boundaries.

The national vision remains to perfect for Benin, Cape Verde and especially Cameroon.

For resources mobilization, Gambia, Djibouti and Ethiopia have proven people skills, good coordination of programs and projects, as well as of an effective coordination of TFP, all that enabled them easier access to different climate funds.

In countries with a level of national vision more assertive, there is a consideration and integration of environmental issues and climate change in the formulation and implementation of policies and national development strategies.

At the regional and international institutions levels, it should be noted the following constraints: i) coordination, harmonization and financing of programs by the States (IGAD); ii) the existence of a multitude of initiatives and sub regional institutions requiring rationalization (AU); iii) a necessary need mentoring and support to the States to access the different climatesfunds (ADB).

Regarding achievements, constraints and prospects for mobilizing partnerships, cooperation and funding to the Environment and Climate Change, countries such as Mali, Burkina Faso and Gambia are fairly advanced in preparing accreditation of national structures for the green climate fund.

Finally, it should be noted that there is, in all countries, but to varying degrees, thematic programs formulated or implemented in the field of resilience and adaptation to climate change.

2.2.4 Encountered difficulties

The main problems encountered during these missions concern in particular: i) difficulties relating to the entry visa in some countries (Eritrea and Sudan), despite all attempts and initiatives deployed diplomatically to succeed; it forced team 3 to return to Niamey, resulting in a considerable loss of time and energy; ii) failure to receive some Focal Points (Cote d'Ivoire, Burkina Faso, Cameroon) letters from the Ministry of Environment and Sustainable Development of Niger announcing the arrival and country missions schedule; which sometimes created some surprises for these Focal Points which have had to adapt to this situation; iii) the unavailability of some Focal Points (Cape Verde) who failed to make the necessary arrangements for meetings widened with stakeholders and prepare individual meetings with them; iv) the very limited length of stay (up to 2.5 days per country) has significantly limited the opportunities to meet and exchange with some stakeholders; v) deprogramming certain flights (Air Ivoire) due to weather conditions, which forced team 2 to arrive to Niamey on March 23rd, 2018 instead of on the 22nd.

2.2.5 Results of the debriefing meeting

After missions in the countries, a debriefing meeting was held from March 24th to 28th March 2018 in Niamey, with objectives like: i) share between all consultants the documentation collected by the respective teams; ii) adopt a specific framework and an appropriate approach for the development of the different deliverables; iii) determine the contributions of each expert and adopt a detailed timetable for the further process. The meeting brought together the two (2) teams who returned in Niamey; but remote exchanges in real time, were organized with the 3rd team and allowed to share and validate different approaches.

After the debriefing meeting, all the collected material was classified by country and integrated into a DROPBOX account created at the start of the study and which remains available to each expert. In addition, the canvas for drafting the various deliverables as well as the efforts to achieve them have been clarified. Finally, a calendar has been validated for the further process.

2.2.6 Overall structure of deliverables

The consultant team has agreed with JWG to combine deliverables structured in five (5) volumes as follows:

- **Volume I:** Report - general assessment of the situation of the States, basin organizations and sub-regional organizations on climate change;
- **Volume II:** Climate Investment Plan for the Sahel Region (2018-2030) and Regional Priority Program (2018-2020);
- **Volume III:** Resources mobilization strategy, with an CIP SR communication and advocacy plan;
- **volume IV:** Institutional arrangements implementation of CIP SR including a stakeholder analysis and;
- **Volume V:** Monitoring and Evaluation Plan for the implementation of the CIP SR.

2.3 Development of diagnostic report on the state of play

Based on sectoral and thematic diagnostic reports (agro-pastoralism, environment, water resources, energy, communication, policies and national development strategies, etc.) produced by different experts, a comprehensive diagnostic report on the state of play has been developed.

2.4 Diagnostic validation workshop report

The report diagnostic of the current situation as well as the formulation of the CIP SR orientation and national framing underwent a technical validation workshop held in Niamey on July 26th, 2018 by JWG gathering Focal Points of all the countries of the Sahel. This conference of experts was followed on July 27th, 2018 by the Conference of Ministers for the Environment of the countries of the Sahel region which carried out the final validation of two (2) documents.

2.5 Development of CIP SR and other deliverables

Based on the sector diagnostics / thematic reports, the team identified the main problems in the area of climate change in the Sahel region, and has constructed problem trees at sector / thematic level, before making consolidation for the overall CIP SR tree problem.

In this exercise, the team identified the strategic directions: i) an overall objective for the CIP SR; ii) specific objectives; iii) strategic axes; iv) the impact; v) Specific / sectoral impacts; vi) the chain of results of the CIP-SR; and vii) the program structure of the CIP SR.

2.6 Validation workshop CIP SR and other deliverables

CIP SR and other deliverables will be submitted on the 1st and 2nd of October 2018 at the 3rd meeting of the JWG, before being submitted, on October 3rd, 2018 for consideration to the Second Ministerial Conference of Ministers Responsible for the Environment the Sahel Region.

III. CHAPTER 3: CLIMATE CHANGE: MAJOR ISSUES AND CHALLENGES

3.1 Vulnerability to climate change

The Sahel region, one of the largest semi-arid and arid areas of the world, stretching from the Atlantic Ocean to the Horn of Africa, an area of about 10 million km², includes 17 countries with similar geo-climatic characteristics (Benin, Burkina Faso, Cameroon, Cape Verde, Cote d'Ivoire, Gambia, Guinea, Djibouti, Ethiopia, Eritrea, Mali, Mauritania, Niger, Nigeria, Senegal, Sudan and Chad). It is a mosaic of contrasting eco-climatic zones and ecosystems under high climate variability characterized by changes in rainfall patterns, extreme temperatures, recurrent droughts with noticeable effects on farmlands, pastures and water availability.

The Sahel region is subject to extreme vulnerability to climate change, which weakens both the living conditions of populations and ecosystems (Sub-Saharan Africa has a soil degradation rate of 67% of land of which 25% is severely to very severely degraded, and 4% to 7% unrecoverable). The below photo, relating to sandstorms is an illustration.

Photo 1 : Inondations au Sahel (Source Association Racine)



Photo 2 : Destruction des infrastructures par l'érosion hydrique (Source Association Racine)



Coastal erosion increasingly accentuated (1 to 2 meters per year in Senegal and Djibouti and over 20 to 30 meters per year in the Gulf of Guinea) causes the gradual disappearance of the adjoining infrastructure to the ribs and protective cords and the degradation of coastal ecosystems (mangrove stands and coral reef).

Climate strongly influences water resources warming in quantity and quality through the increase in the average temperature of the water and the induced evaporation, decreasing rainfall, the groundwater level and flow rate of watercourses.

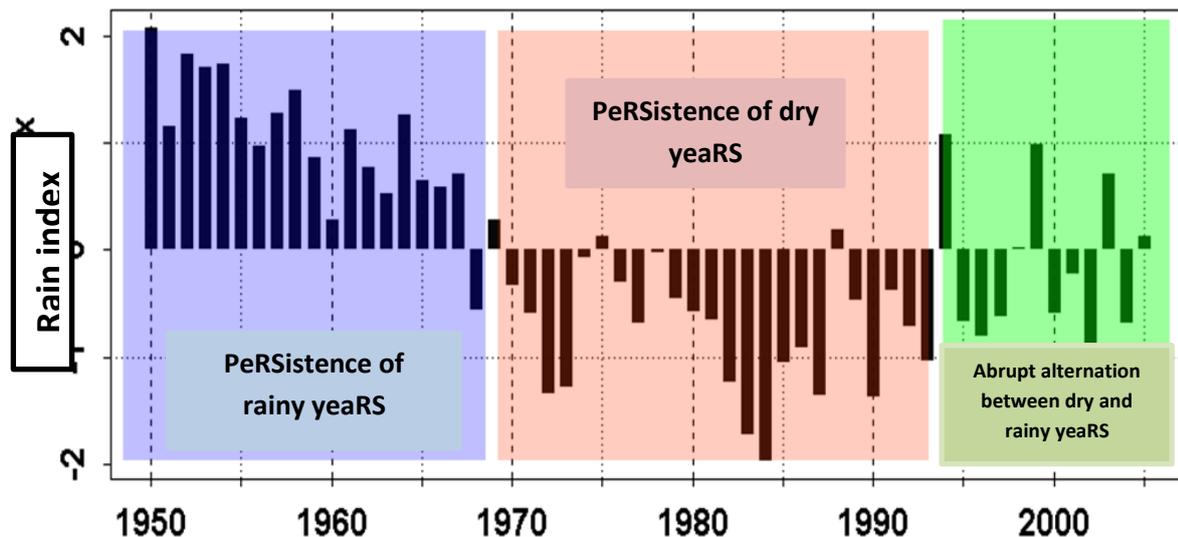
Since 1950, the Sahel Region is the part of the world that knows the greatest rainfall deficit (Spinoni and al.2013). According to several scientific reports, the tendency to aridity in the Sahel region could continue during the 21st century. However, the degradation of annual precipitation would be accompanied by a considerable increase in extreme weather events and violent over the past 35 years in the Sahel Region.

A detailed analysis of the climate crisis of the Sahel from 1970 to 1990 shows that the transition to drought was so violent that it succeeded directly to the rainiest period of the 20th century. It was also

recorded from 1982 to 2016, an increase of three to four times the number of intense and violent storms in the Sahel.

Comparing isohyets of the so-called rainy period (1950 to 1967) to the drought period (1968 to 1985) highlights that the general decrease in rainfall is materialized by a shrinkage isohyet of up to 200 km towards south. It may be noted that the isohyet 400 millimeter of the 1968 to 1995 period is virtually superimposed on that of 600 Millimeters of 1970-1980. This underlines the importance of climatic deterioration in the Sahel Region. The below figure 1 gives changes in rainfall from 1950 to 2005.

Figure 1 : Changes in rainfall index in the Sahel from 1950 to 2005, Source, AGRHYMET



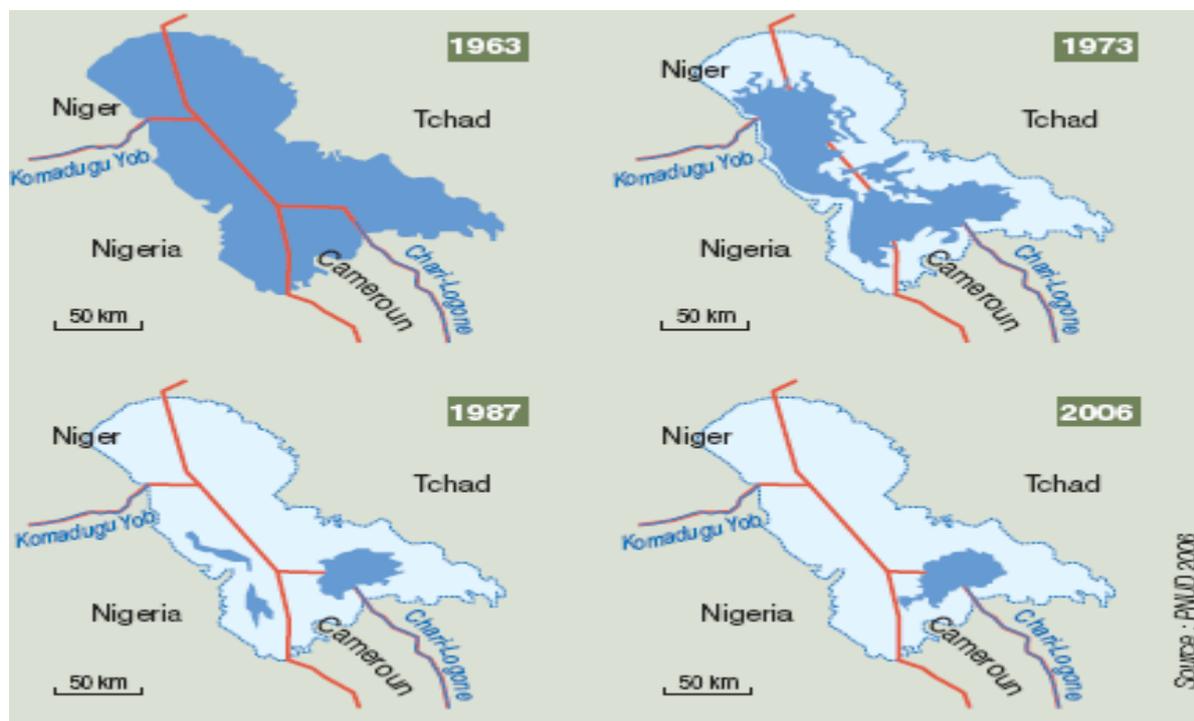
This increase in extreme rainfall hazard is linked to climate change can continue increasing in the coming decades and can ultimately result in serious implications for agriculture and infrastructure in the region. The general context is also characterized by an increase in extreme temperatures, especially with heat waves which frequencies could be about 10 times greater in troCIPal Africa. The global climate would record an increase in temperature which would be 2°C above pre-industrial temperatures. These future climate changes are likely to have significant impact on the production of suspended particles in West Africa which greatly degrade the air quality and greatly impact the health of populations.

In addition, the Lake Chad which originates in the plateaus of Adamaoua and mainly the Congo River, across the plains of Oubangui-Chari's area reduced by 90% between 1963 (25 000 km) and 1992 (2000 km²). See map 1.

In the farming sector, rising temperatures associated with increased rainfall variability will result in malfunctions of agricultural seasons, disruption of biological cycles of crops and damage to agricultural production (a trend to the reduction of agricultural and agro-pastoral yields up 50% in 2050, according to the forecast).¹ The scarcity of functional water points and forage resources in the dry season, forces large herds in transhumance, with its consequences in terms of conflicts between farmers and herders and security underlying problems.

² AGRHYMET Center: Fight against climate change: CILSS achievements. November 2016.

Map 1: Lake Chad Evolution (1963-2006)-Source: PNUD, 2006



The energy sector is considered the second greenhouse gas emitting sector in the Sahel region (30% average) behind agriculture in general. The five leading causes of vulnerability in this area are: i) balance of traditional fuels of wood origin; ii) high dependence on technology and external funding to exploit its potential and conventional energy resources; iii) low power purchasing of the population and the spread of human settlements; iv) the absence / weakness of an industrial fabric capable of an efficient profitable electrical service and justify some profitable investment; v) constraints related to the use of fossil fuels in a global environmental context that no longer encourages their exploitation.

3.2 Responses attempts

3.2.1 Policies, strategies and programs implemented at the states level

Facing vulnerability situations, the states of the Sahel Region and most of the basin organizations and regional organizations have developed strategic visions to translate their respective long-term goals, based on certain global initiatives (Rio Conventions, Calendar of 2030 SE4ALL) and continental (2063 Agenda) to integrate climate change into their development process. These long-term visions were then translated into strategic frameworks in the medium term, which have been equipped with sectoral policies, strategies and programs at different levels (national and sub-regional).

In terms of water resources management, the integration of climate issues into policies and strategies is reflected in most countries of the Region, by: i) the watershed approach as an appropriate framework for planning, mobilization and protection of water resources; ii) the promotion of interregional cooperation particularly for shared resources; iii) the development of national expertise able to design, implement, operate and maintain infrastructure; iv) the implementation at institutional level of decentralization policies.

In the farming sector, policies and strategies implementations were directed to: i) the mobilization of surface waters ii) the mastery of groundwater for the purpose of farming production; iii) the promotion of

irrigation; iv) the promotion of sustainable production systems, particularly based on the extension of suitable plant species resistant to drought and disease as well as appropriate technology packages v) the promotion of agroforestry; vi) the promotion of sustainable pastoral production systems and extension of adapted species, the genetic improvement of local breeds, the promotion of integrated agro-livestock farms, the improvement of rangeland management, the regeneration of natural pastures, the development of pastoral hydraulics, the reduction of migratory movements of breeders, and the empowerment of pastoral communities.

In the energy sector, national policies and strategies are mostly aligned with the guidelines of the Global Initiative (SE4ALL, 2030), with the following objectives: i) universal access to modern energy services; ii) improving the national energy mix through the use of new and renewable energy; iii) doubling of overall energy efficiency Initiatives, programs and projects implemented in the countries of the Sahel region are based on: i) adaptation programs taking into account risk managements and disasters through emergency and early warning systems; ii) sectoral programs for agriculture, health, infrastructure, energy, sustainable management of natural resources including water resources, the promoting of social and economic resilience of people and the promotion of practices and knowledge; iii) mitigation programs effects of climate change in the energy sector in promoting access to clean and renewable energy, reducing emissions from deforestation; iv) capacity building actions, (v) projects to improve access to modern energy services; vi) improvement projects of the national energy mix through the use of new and renewable energy; vii) projects to improve the overall energy efficiency. iii) mitigation programs effects of climate change in the energy sector in promoting access to clean and renewable energy, reducing emissions from deforestation; iv) capacity building actions, (v) projects to improve access to modern energy services; vi) improvement projects of the national energy mix through the use of new and renewable energy; vii) projects to improve the overall energy efficiency. iii) mitigation programs effects of climate change in the energy sector in promoting access to clean and renewable energy.

In the Sahel region, the Contributions to the Nationally Determined Contribution level (NDC) were prepared from a developed baseline using clearly defined indicators. The analysis of the 17 countries of the Sahel's NDC offers a snapshot of the region, which can be characterized by: i) an AFOLU sector responsible for greenhouse gas emissions in a proportion of 68% to 90%; ii) an energy sector which emits an average of 30% of the greenhouse gases; iii) a low carbon sequestration capacity; iv) a high vulnerability of populations and ecosystems, mainly related to land degradation.

The analysis of the NDC of the 17 countries of the Sahel region reveals: i) a predominance of rural activities (agriculture, livestock, fishing and forestry) in the economies of countries, human pressure linked to high population growth resulting in overexploitation of natural resources and accelerated land degradation and low greenhouse gas emission rates at the global level; ii) a common approach towards adaptation oriented land management, range management, development of livestock and climate smart agriculture, an ambition to initiate a sober economic development path in carbon and resilient climate change, iii) an energy-oriented investment mitigation by improving the energy mix of the electricity sector accounts for only less than 10% of the balance sheets, iv) the issue of improving the energy efficiency of the biomass sector - Energy increasingly sidelined.

3.2.2 Policies, strategies and programs implemented at the basin and regional integration organizations

The Sahel region conceals important watersheds where water resources contribute to agricultural production, especially irrigated, and the renewal of natural resources. These pools offer on agriculture, livestock, fisheries, etc, a usable space of over eight million km². Political and basin organizations intervention strategies consider the development of irrigation capacity and land use by agriculture and

livestock, revegetation of rainfed lowland and low-funds irrigated crops, and improving charging conditions of groundwater and recharge lakes, parks, and other wetlands.

The preservation and water resources management in transboundary basins have become political, economic and social but have also become a potential source of conflict between States and between the other users. In this context, actions to address the impacts of climate change on the resources and to evaluate efforts by the States of the Sahel, the basin organizations to cope, address a priority reaction.

In 2015, the Niger Basin Authority (ABN) has developed a Climate Investment Plan (CIP) for building resilience to climate change of the Niger River Basin, with 245 projects costing a total of 3.1 billion USD oriented to: i) the collection and generation of information tools to forecast climatic hazards; ii) the integration of adaptation to climate change in public policy; iii) the assessment of the vulnerability, the communication and awareness; iv) the strengthening of the resilience of communities and watershed ecosystems to climate change, etc.

OMVS, for its part, has adopted a vision for 2030 that requires a few reforms and coping methods to solve the most pressing environmental issues and mitigation climatic changes.

OMVG emphasizes a rational exploitation of common resources of river basins of Gambia, Kayanga-Geba and Koliba-Corubal. The Authority of the Volta Basin (ABV) has developed a strategic program to ensure water availability for its main users. In the Sahelian countries of the Horn of Africa, the Initiative of the Nile Basin (NBI), launched in 1999, provides a framework of cooperation for shared development vision, the equitable use and sharing of benefits of the common resource.

The climate investment plans of the basin organizations usually contain priority programs to be implemented by all member countries to resolve the identified transboundary issues and investment programs in infrastructure such as dams for the socio-economic, equitable and sustainable development of the countries.

The different regional integration organizations active in the Sahel Region have defined their intervention strategies around actions to strengthen environmental governance and promote the management of natural resources. The mission of integration results in unifying and promoting cross-border technical programs, joint research programs to countries and training programs involving several countries in the Sahel region (ICRAF, CORAF, ICRISAT, CILSS / AGRHYMET / INSAH, OSS, ACMAD, etc.).

At the continental level, the NEPAD pilots the Detailed Development Program of African Agriculture (CAADP) adopted in 2003 in Maputo (Mozambique), with a commitment of African leaders to devote at least 10% of national budgets to agricultural development.

On the subregional level after the adoption in 2005 of a regional agricultural policy (ECOWAP +) by ECOWAS, implementation mechanisms have been developed, including through national programs of agricultural investments (NIPA) and the Regional Investment Program agricultural (PRIA) that federate regional priorities. In 2011, ECOWAS has defined its agricultural Vision 2020, in line with the CAADP of the NEPAD.

Agricultural policy of WAEMU (PAU) adopted in 2001 aims to enhance food security and developing agricultural markets, improving the adaptation of production systems. WAEMU is involved in the fight against climate change through its environmental policies, energy and land use.

CILSS policies and strategies are directed primarily to: i) strengthening options for adaptation to climate change in member countries and the ECOWAS zone; ii) production and dissemination of climate change information to farmers to enable them to better plan their agro-forestry-pastoral production; iii) development of human resources; iv) advisory support to countries in the subregion.

Through its objectives and issues, the regional White Book of the ECOWAS / WAEMU remains in the energy sector, a relevant initiative. For the enhancement of renewable energy, some fifteen regional hydropower projects are under preparation or implementation in the ECOWAS / WAEMU's area. These regional projects total hydropower production capacity of about 1954 MW, for a total cost of 3,435 million USD. Over fifteen regional interconnection projects of the country are under preparation or implementation in the ECOWAS / WAEMU's area. These regional projects total up an extension of over 9,000 km of power transmission lines for a total cost of approximately USD 3,500 million.

The ECCAS countries have initiated a regional political process capitalizing on the experience and best practice of the West African region (with ECOWAS). The "Power Pool of ECCAS" continues the construction of a cross-border system of electric energy exchange, as the WAPP of ECOWAS.

3.2.3 Actions of communication and advocacy

In the field of communication on climate change, despite the priority recorded in the constitutional documents of the UN Convention on Climate Change, there is a significant deficit of this component in environmental programs and projects in the country Sahel.

Indeed, apart from the APGMV who recently adopted a Communication Plan, most countries bodies have no real communication strategies / information for the consideration of climate change.

Moreover, there's a little involvement of local communities, the very ones who are most vulnerable to deterioration of ecosystems that are the priority targets for resilience. Even where they exist, communication initiatives do not always have the funding required to the size of the challenges of climate change.

Despite this constraint, some organizations have undertaken quite structured actions of environmental communication. For example, CILSS has undertaken since its creation, the production and dissemination of climate information to state actors. It has accumulated in this field, an experience that dates back to the 1990s (Training and Information Program in Environment - PFIE).

The African Center of Meteorological Applications for Development (ACMAD) relies, for its part, on a communication device / extension using the RANET as a tool for disseminating weather information by radio, to make available rural and decentralized structures for information on the availability of natural resources (grazing, water sources).

Note that in terms of communication on climate change, a major constraint remains the passage of scientific information in understandable information for local users, as it requires from the actors, a high capacity and enough ability to design, develop and efficiently deliver messages to users.

The Sahel media contribution to the fight against climate change is hampered by several constraints, both external and internal (internal organization of media companies).

The institutional environment (economic and legal) and "editorial" production added to the human resources deficit (ignorance proved by journalists of environmental issues), environmental dwindling written content, audio-visual or web journalism.

Key issues to change the media sector and make it a tool for the fight against climate change go through sustainability, editorial independence, access to information and especially the strengthening of journalistic abilities.

3.2.4 Institutional and governance plan

Institutional and governance mechanisms, while some countries such as Burkina Faso, Benin, Mali and Ethiopia joined the National Coordination Body (ONC) within the Ministry of the Environment to focus on the environmental theme. Other countries like Niger have placed this structure under the supervision of

the Prime Minister to confirm the transversal theme of climate change and thus enhance the ONC's coordination capacity over all sectors.

The existence of the ONC and the shared responsibility of the coordinating body and the Ministry of the Environment, facilitated the establishment of harmonization of sectoral programs' mechanisms, advocacy and mobilization of technical and financial partnerships and the participation of countries in international forums.

Some countries have set up permanent technical committees led by different ministries in the preparation of sectoral action plans. But beyond the different mechanisms, Technical Ministries continued their regal roles by gradually integrating environmental issues into their sectoral programs.

Despite the progress in scientific and technical implementation of the environmental action programs and plans in all the countries of the Sahel region on the institutional and governance plan, including the mobilization funding, the situation remains contrasted and the results very mitigated.

In terms of the preparation and implementation of action plans, it was sometimes observed a deficit in participatory approach, which did not facilitate the inclusion of certain dimensions (legal aspect, socio-economic and / or international cooperation) due to weak skills in these areas.

In addition, poor results in the implementation of environmental conventions in several countries, are justified by the lack of financial resources, due to their low capacity for advocacy and mobilization of available resources from various funds but whose access remains subject to certain conditionalities, not yet mastered by most countries of the Sahel region.

Indeed, the level of information and awareness to create a national vision on the dimensions and challenges of Environment and Climate Change is, to a certain extent, satisfactory. Globally, the adoption of the Rio conventions from the 1990s, is a new dynamism to regional integration for organizations in their responsibility in the implementation of agreements at the subregional and regional level. In this context, the CILSS has become the focal point of the Rio Conventions for the West African region in the field of food security and the environment. Thematic working groups of joint with various regional organizations set up in favor of these agreements, have enabled these organizations to strengthen their policies and strategies relating to environment and natural resource management.

At the regional level, environmental governance was strengthened through better coordination of actions of regional institutions and the establishment of dialogue and negotiation between them.

At the state level, we can see the emergence of real leadership on environmental issues, through the commitment and guidance driven by ministerial bodies and especially by the Heads of States, who seriously committed to the cause, in order to defend African common visions in the highest levels of environmental conventions.

3.2.5 Funding opportunities and access conditions

In the area of financing, the international community has encouraged the creation of many funds to support action on mitigation of GHG emissions and adaptation, particularly in developing countries, and despite their low level of GHG emissions, they are those who suffer the most from climate change.

According to the Permanent Finance Committee of the UNFCCC (2014 report), the amount of global spending for climate totals on average 340 to 650 billion USD a year; financial flows from north towards south represent 40 to \$ 175 billion per year and public funds represent 35 to 50 billion, private meanwhile contribute up to 5 to \$ 125 billion. Developed countries evaluate their spending to an average of 30 billion USD a year for climate, but these funds are mobilized as part of official development assistance to enable these countries to move towards their original commitment of 0.7 % of GDP in the context of the Millennium Development Goals.

Africa received only 12 to 15% of "Climate" multilateral financing and 25% of ODM integrating co-benefits for climate, far behind Asia and the Pacific.

There are about twenty active multilateral donors in providing climate finance for the Sahel region and Africa, in the south of the Sahara in general, the main two are the Fund for Least Developed Countries (FPMA) and Fund for clean Technologies (FTP), and of which the green climate Fund (GCF) has just been added. According to the "Climate Funds Update"² (CFU), since 2003, 3.3 billion USD have been awarded to 517 projects and programs implemented in sub-Saharan Africa (45% for adaptation).

From 2004 to 2017, the countries of the Sahel region have led nearly 200 projects by mobilizing about a billion dollars from the climate fund while more than 1000 billion have been announced for the same project for all countries of the world.

Regarding the conditions of access to climate financing, the countries of the Sahel region do not all have the same level of preparedness to access the Green Climate Fund.

In the area of the mobilization of funding, the major challenges the countries of the Sahel region are facing are essentially: i) the imbalance between funding for mitigation of GHG emissions (around 95% of funding) and that of the adaptation (5%)³; ii) the low level of preparation of the countries of the Region, not promoting access of developing countries to the FVC funding opportunities (more than half the countries of the Sahel region depends on the discharge of international organizations already accredited, which results in a dependency alienating and reductive); iii) the weak capacities of the States in the formulation of green financing requests related to the eligibility criteria to the various bilateral and multilateral funding windows; iv) the lack of a resource mobilization strategy to the domestic private sector and its lack of involvement in climate finance.

3.2.6 Experiences and good practices

Several experiences and good practices can be raised in the Sahel region which deserve to be capitalized, disseminated and scaled:

- A the Regional level:
 - ✓ The creation of three climate commissions (Sahel, Congo Basin and Island countries) and the establishment of a framework for synergy and exchanges through the African Union.
 - ✓ At the sub-regional level (West Africa), ECOWAS and CILSS, have developed initiatives in the areas of integration and scientific research:
 - ECOWAS, for example, has developed a model of economic integration that ensures the mobility of people and goods within the region; successful examples of energy cooperation in the field of cross-border exchanges in electricity (WAPP), of hydroelectric and co-production of gas exchange (regional gas pipeline) with institutional patterns, legal and rates could be capitalized to other parts of Africa;
 - The OMVS model of cooperation between countries in the fields of energy, river navigation and irrigation is also a good example of pooling resources of the States;
 - In the field of environment and agriculture, CILSS, with two specialized institutes (INSAH and AGRHYMET) has developed scientific and educational standards that may be capitalized throughout the entire Sahel Region; it also developed skills in climate information, agricultural and environmental early warning beyond the Sahel region; its

² <https://climatefundsupdate.org>

³ African Development Bank. The funding of climate change: Africa's access to conventional funds. Summary note of the high-level event of the COP 18.

training program and environmental information (PFIE) is a successful example of introducing environmental issues in educational programs and basic training.

- At the countries level:
 - Successful experiences of production of bio fuel made from Jatropha (Mali) and Neem (Niger), offer technical solutions (agronomic and energy plans) that can be replicated and scaled;
 - Sustainable management techniques of land implemented in Niger and Burkina (CES-DRS, RNA, etc ...), are practical experiences of recovery of degraded lands;
 - As part of the Platform on Agricultural Risk Management, the recent experiences initiated by Senegal and Niger in agricultural insurance offer prospects for securing agricultural production systems;
 - Multifunctional solar platforms for rural access to modern energy services, initiated in Mauritania, in the framework of regional cooperation supported by UNDP, offer opportunities of access to modern energy services in remote rural areas;
 - The information dissemination initiatives at the local level in Gambia and Niger (community radios, RANET ...) in national languages are available for climate information to rural populations;
 - As part of an open approach to communication and information, the use of ICT in the dissemination of environmental information is encouraging innovation in the Sahel region (exemple: The Network of Chambers of Agriculture in Niger);
 - The existence of an African Environmental Journalists Network (ANEJ) allowed them to capitalize on a critical mass of information about the environment and engage state decision-makers on the major issues of climate change;
 - The emergence in several countries of parliamentary networks engaged in advocacy for better integration of climate change issues is an important political order.

3.3 Assets and opportunities

The prospects for medium and long term are good for the Sahel region because it has huge mineral resources and untapped energy potential (solar, hydro, wind, geothermal, oil, fossil fuels, etc.) and a relatively young population (over 50%), more educated, which is a considerable human capital.

Regional organizations (CILSS, ECOWAS / WAEMU, CEEAC / CEMAC, IGAD, etc.) are dynamic and very advanced on political, economic, environmental, energy plans.

Moreover, we can note: i) the emergence of a growing awareness on the problems and issues of climate change resulting from lobbying and advocacy of civil society leaders; ii) a global context, increasingly favorable to the mobilization of financial and technical partnerships for the consideration of the specificity of Africa in general and the Sahel Region in particular.

3.4 Key Challenges

The main challenges in the Sahel region are: i) the challenges of an environmental governance quality; ii) sociodemographic challenges; iii) lobbying and advocacy to increase the share of funding dedicated to adaptation (current situation: mitigation of GHG emissions, 95% of the funding against 5% for the adaptation); iv) the mastery of procedures to access various sources of funding v) the dilemma of some countries in the Sahel region regarding the possibilities of exploitation of their huge non-renewable

energy resources (mineral coal in Niger, oil, peats, etc. .) in the current global context is unfavorable to the valuation of non-renewable energy.

IV. CHAPTER 4: CIP SR VISION AND STRATEGIC DIRECTIONS

4.1 Challenges, opportunities and major challenges

The approach to the formulation of the strategic directions of the CIP Sr 2030 must be based primarily on the major challenges and issues identified in the diagnostic analysis, under the light of the outcome of the Vision of the Marrakech Declaration as well as the regional and international agendas.

The diagnostic analysis shows that ecosystems in the Sahel region are particularly vulnerable. Critical challenges are ahead of in all areas relating to climate change. The region has, of course, huge natural potential for responding adequately, but it will enhance the earlier to make a real lever that could contribute to the fight against climate change. In this, lie the major issues of several orders that will face the Sahel Region in the coming years.

4.1.1 Critical challenges

The management of the issues identified in the diagnostic part requires providing appropriate answers to critical challenges below: i) the challenges of environmental governance quality; ii) sociodemographic challenges; iii) lobbying and advocacy to increase the share of funding dedicated to adaptation (current situation: mitigation of GHG emissions, 95% of the funding against 5% for the adaptation); iv) the mastery of procedures to access various sources of funding.

4.1.1.1 *Challenges for environmental governance quality*

The challenges relate in particular to: i) accelerated degradation of vegetation cover, the weakening of ecosystems and loss of biological diversity; ii) reducing the environmental impact of mining activities by the application of appropriate arrangements by the countries of the Sahel region; iii) the dilemma faced by some countries in the region about possibilities of exploitation of their huge non-renewable energy resources (mineral coal in Niger, oil, peats, etc.) in the current global context unfavorable to the valuation of non-renewable energy; iv) sustainable management of natural resources (water resources, forest resources, fishery resources, energy resources); v) safeguarding of classified or protected areas; vi) improving the quality of the living environment; and vii) strengthening the technical and institutional capacity of the countries of the Sahel region in terms of environmental protection.

To achieve a sustainable exit from the fragility of ecosystems and create conditions for population resilience, the Sahel region will sit environmental governance quality. The challenges in this area include a respectful governance law, transparency, accountability and participation: the rule of law to ensure people's safety; and transparency to optimize the management of natural resources; the responsibility for improving the efficiency of public management; and participation to establish more inclusive decision-making process.

4.1.1.2 *Socio-demographic challenges*

The demographic challenges are: i) the increase in the basic social service offer (health, education, drinking water and sanitation); ii) improving access to services; iii) the fight against poverty and social exclusion; iv) promotion of employment; and v) protection of vulnerable groups (advocacy, legal protection and social welfare services).

4.1.1.3 *Lobbying and advocacy to increase the share of funding dedicated to adaptation*

The existence of an imbalance between funding for mitigation of GHG emissions (around 95% of funding) and of adaptation (5%) is a prejudicial situation to the interests of countries in the Sahel region. As already mentioned, the Sahel region countries are those who suffer the most from the effects of greenhouse gas emissions, while they contribute to it only marginally and where adaptation needs are very high, with local and national capacities very limited.

Faced with this situation, strong lobbying and advocacy of states and organizations of civil society, are likely to help restore balance to the countries of the Sahel region.

4.1.1.4 *Challenges related to access to funding windows*

In this area, we face two main challenges: i) the ability of lobbying and advocacy to increase the share of funding dedicated to adaptation (current situation: mitigation of GHG emissions, 95% of the funding against 5% for the adaptation); ii) the control of procedures access to different sources of funding.

4.1.2 Opportunities

Facing these multifaceted challenges, the Sahel Region has several assets. Indeed, the prospects for medium and long term are good for the Sahel region, as it has huge mineral resources and untapped energy potential (solar, hydro, wind, geothermal, oil, fossil fuels, etc.) and a relatively population young (over 50%), more educated, which is a considerable human capital. Regional organizations (CILSS, ECOWAS / WAEMU, CEEAC / CEMAC, IGAD, etc.) are dynamic and very advanced political, economic, environmental, energy plans.

Moreover, we can note: i) the emergence of a growing awareness on the problems and issues of climate change resulting from lobbying and advocacy of civil society leaders; ii) a global context, increasingly favorable to the mobilization of financial and technical partnerships for the consideration of the specificity of Africa in general and the Sahel Region in particular.

4.1.2.1 *Demographic opportunities*

Most countries in the Sahel region are in a demographic transition. Despite a growth rate particularly high, which could provide some constraint to the region, in terms of economic growth, population dynamics, if well controlled, it can be transformed into real opportunity for the region to access the demographic dividend. This assumes a strengthening of national health policies, fertility, education, creation of productive employment and good governance.

4.1.2.2 *Important agricultural, fishery and forestry-pastoral potential*

The agricultural sub-sectors, livestock and fisheries generally offer enough opportunities to accelerate economic growth. In this context, the Sahel countries can rely on the exploitation of these potentials based on consistent financial resources, expertise, and shares in marketing, processing, transportation and storage and creation of adequate infrastructure to create conditions for inclusive sustainable development. The exploitable fishing potential is important; however, fishing remains a finite and perishable resource, threatened by the current operating modes and degradation of biological and physico-chemical conditions of the water bodies (illegal fishing, pollution of water bodies by urban and mining waste).

4.1.2.3 *Forest biological resources riches*

Forest ecosystems are diverse in the Sahel forests, various flora and fauna, providing opportunities for the development of other sectors, including the tourism sector exist. The wildlife includes several species of insects, mammals, birds, reptiles and amphibians. The production, harvesting, processing and marketing of raw and processed forest products are important sources of employment and income generation for the population.

4.1.2.4 *Abundant and diverse mineral resources*

The Sahel region has large deposits of untapped raw materials. These mineral resources that have so far been little exploited, could play a leading role in the economic development of countries in the Sahel region, as a lever for development of economic and social infrastructure, manufacturing, agriculture and services. This mining potential is an opportunity for the region to develop mega projects with the key to the construction of large capacity infrastructure, increased investment in the region, job creation and technology transfer to achieve sustained growth.

4.1.2.5 *Tourism opportunities*

The Sahel region also has a significant tourist potential through a variety and diversity of its landscapes, microclimates, fauna, flora and crafts. This gives real opportunities to the region to develop a variety of tourism products, including eco-tourism, cultural tourism, discovery, hiking, etc, and may generate significant resources to the respective countries. In addition, there are in different countries, several protected areas including forest reserves.

4.1.3 Major issues

The environment is now emerging as an essential dimension to the whole world and particularly for the countries of the Sahel region, due to pressure on natural resources and the threats posed to the frame life, different kinds of pollutions.

The challenges for the countries of the Sahel region are important. The major issues are the situation of environmental fragility of countries in the region and the urgent need to achieve to: i) create the conditions for resilience of people and Sahelian ecosystems; ii) improve environmental governance; iii) make the transition to the green economy; iv) ensure good demographic transition and rapid change in the demographic dividend; v) preserve the environment and optimize natural resources; and (vi) support issues of adaptation to climate change.

4.2 Vision

The Vision for the Sahel region has its foundation from the "Summit of the African Action in favor of continental co-emergence" held on November 16th, 2016 in Marrakech, which brought together several heads of state and delegations from Africa on the sidelines of the 22nd Conference of Parties to the UN Convention on climate change (COP 22). For Africa, it translates the **"ambition to be part of a sustainable co-emergence of trail, building its own model of inclusive and sustainable development, meeting the legitimate aspirations of the African peoples and safeguarding the interests of future generations"**.

The realization of such a vision requires for Africa and the Sahel to **take control of their destiny, to speak with one voice and to join forces to fight against climate change and building resilience.**

4.3 CIP SR Foundations and general guidelines

4.3.1 Foundations

CIP SR 2018-2030 is based on the outcome of the Marrakech Declaration vision on international development agendas on guiding principles and values that should guide public policy.

CIP SR aims primarily to achieve, over the period 2018-2030, the outcome of the Marrakech Declaration vision which aims to put Africa **"in a sustainable co-emergence of trail, building its own model of inclusive and sustainable development, meeting the legitimate aspirations of the African people and preserving the interests of future generations"**.

At subregional level, CIP SR based on the ECOWAS 2020 Vision which advocates the passage of a community of States to a community of people. This subregional vision is based on five transformational pillars: i) the development of resources in the region; ii) peace and security; iii) governance; iv) economic and monetary integration; v) private sector growth.

At the continental level, the CIP SR is based on the 2063 Agenda of the African Union that aspires to: i) a prosperous Africa based on inclusive growth and sustainable development; ii) an integrated continent, politically united, based on the ideals of Panafricanism and the vision of the African Renaissance; iii) an Africa of good governance, democracy, respect for human rights, justice and respect of law; iv) a peaceful and secure Africa; v) an Africa with an identity, a common heritage, shared values and strong cultural ethics; vi) an Africa where development is people-centered, and relies in particular on the potential of women and youth; and vii) an Africa as an actor and a strong partner, united and influential on the world stage.

Internationally, CIP SR aligns with the 2016-2030 universal development program and its 17 Sustainable Development Goals (SDGs), with the Sendai Framework for the Action of disaster risk reduction from 2015 to 2030, the Paris Agreement (COP21) on climate change in December 2015 and the New Deal or the international commitment to fragile states for peacebuilding and statebuilding.

4.3.2 CIP SR general guidelines

The implementation, monitoring and evaluation of CIP SR are guided by seven (7) guiding principles as normative benchmarks, which all stakeholders must comply systematically in their interventions. These are: i) the leadership of the States; ii) subsidiarity and partnership; iii) results-based management; iv) cross-cutting approach; v) proactive coordination; vi) promoting equity and reducing inequalities; vii) the capitalization of lessons learned, experiences and good practices implemented in the country for their extension and scaling.

4.3.2.1 *Leadership of the States.*

This principle recommends the strengthening of the leadership of the States in the implementation of CIP SR to improve its impact on the population. The leadership of the States will strengthen with: (i) the definition and implementation of clear guidelines in the field of resilience; (li) financing of much action on own resources; (lii) the negotiation of the TFP funding and guidance on priorities of the development of the CIP-SR; (lv) the active participation of local communities in the design, implementation, monitoring and evaluation of programs and projects; and (v) holding regular dialogue frameworks/consultation for the constant vigilance of people's aspirations.

4.3.2.2 *Subsidiarity and partnership*

This principle means that the responsibility for an action is up to the nearest competent entity of the populations concerned and better able to define and execute that action. With this principle, stands a

better distribution of roles between the local, national, subregional, firstly and secondly between the state and non-state actors in the implementation of programs and projects.

4.3.2.3 *4.3.2.3 Results-based management*

Results-based management (RBM) aims to improve the effectiveness, efficiency, accountability, transparency, and sustainability in development management. The adoption of this principle requires (i) the continued strengthening of participation, ownership and accountability focused on results at all stages of the CIP SR process; (ii) alignment of the planning, monitoring and evaluating the predefined expected results in the CIP-SR; (iii) the mobilization of resources and a rational organization to achieve the expected results; (iv) simplicity, rigor and accessibility of monitoring and evaluation methods in the implementation of the CIP-SR; (v) promoting accountability.

4.3.2.4 *Intersectoral approach*

The sectors are interdependent and subject to the same system, interventions must be done consistently and synergistically to maximize the chances of success of the plan. The implementation of the CIP SR will therefore be based on such an approach.

4.3.2.5 *Proactive coordination*

This results in better coordination of interventions of all stakeholders to give a greater chance to the success of the CIP SR. It concerns all stakeholders, including the donors, to unite their efforts, their respective expertise, their human and material resources, and align all their actions on the expected results of the CIP-SR. The application of this principle requires proper ownership of the CIP SR by all stakeholders and strengthening of the Plan steering capabilities.

4.3.2.6 *Equity and reducing inequalities*

Reducing social and regional inequalities will be a way to the implementation, monitoring and evaluation of the CIP SR. This principle recommends the inclusion of gender and regional specificities for more spatial equity and social cohesion. This requires the enhancement of regional potential, the development of resilience of the most vulnerable social, intergenerational equity and good governance.

4.3.2.7 *Capitalization of learned lessons*

The CIP SR capitalizes lessons learned, experiences and good practices implemented in the countries of the Sahel Region for their extension and their scaling.

4.4 Strategic objectives and outcomes

The CIP SR is a coherent whole that is based on: (i) objectives and outcomes; (ii) strategies to achieve those objectives and results; (iii) actions to achieve these results; (iv) a monitoring and evaluation mechanism to ensure effectiveness.

4.4.1 CIP SR Overall objective

CIP SR as operationalization tool, over the period 2018-2030, of the Marrakesh Declaration and Vision which is clear, has set itself the overall objective to contribute to the global effort mitigation of gas emissions of Greenhouse gases (GHGs) and increase adaptive capacity and resilience of the Sahel region to climate change.

4.4.2 Specific objectives

The specific objectives of the CIP SR 2018-2030 are:

1. Strengthening Environmental Action mitigation of GHG emissions and adaptation / resilience to climate change;
2. Improving the availability of water resources for human consumption and the development of economic activities;
3. Ensuring the sustainability of agricultural and pastoral production systems to the effects of climate change;
4. Promoting production options, sustainable energy transmission and consumption;
5. Strengthening capacities for information, awareness and advocacy on climate change;
6. Strengthening institutional capacity and improving environmental governance.

4.4.3 Strategic outcomes

The main strategic outcomes of the implementation of the CIP-SR are:

- ✓ Degraded lands are restored, and fragile ecosystems are rehabilitated;
- ✓ The carbon sequestration capabilities are enhanced through afforestation and reforestation actions;
- ✓ Water Resources databases are strengthened or created;
- ✓ Actions of water resource preservation and management are undertaken;
- ✓ The water needs of domestic and productive sectors are satisfied;
- ✓ Inter-states cooperation for resource management is enhanced through the basin organizations;
- ✓ GHG emissions in agricultural and pastoral areas are reduced;
- ✓ Securing agricultural and pastoral systems is ensured through the control of water,
- ✓ Agricultural production systems, sustainable pastoral and good practices and appropriate technology packages are promoted;
- ✓ Energy yields are improved;
- ✓ The positive environmental balance in energy mix has improved;
- ✓ The access of populations and productions to modern energy services systems improved;
- ✓ The communication strategy and advocacy are developed and implemented;
- ✓ The capacities of actors in communication and advocacy are strengthened;
- ✓ The development capabilities, implementation and evaluation of policies, strategies, programs and projects are strengthened;
- ✓ Climate information are available at strategic and operational levels;
- ✓ Technical and financial partnerships for the implementation of the CIP are strengthened.

4.4.4 CIP SR strategic directions

Based on the diagnostic analysis and key challenges, 6 strategic axes have been identified to provide answers to the problems of climate change in the Sahel Region:

- i. Restoration and rehabilitation of degraded lands and ecosystems;
- ii. Integrated management of water resources;
- iii. Sustainable management of agricultural and pastoral systems;
- iv. Improvement of energy efficiency and access to clean energy;
- v. Development of communication and advocacy on Climate change;
- vi. Capacity building.

These strategic axes are coherent, interrelated and harmoniously structured to provide, through programs and subprograms they develop, appropriate solutions at national and subregional levels, to achieve the objectives and results Plan to meet climate change challenges in the Sahel Region.

V. CHAPTER 5: PROGRAMS, SUBPROGRAMS AND MAJOR ACTIONS BY STRATEGIC AXIS

The CIP SR structure is articulated around six (6) axes containing each program, subprograms and major actions.

5.1 Axis 1 (A1): Restoration and rehabilitation of degraded lands and fragile ecosystems

The Sahel region is composed of countries with predominantly rural economies, based on the exploitation of the natural environment. Therefore, the concern of these countries in the fight against climate change is to be implemented in the priority of populations adaptation programs, livelihoods and ecosystems that provide goods and services.

These countries provide a particular importance to the Sustainable Land and Water Management (SLM/E) as responses to the effects of climate change.

In the Sahel, a significant importance is given to the adaptation programs of the AFOLU, which simultaneously generate a strong co-benefit in mitigating greenhouse gas emissions.

Also, all countries in the Sahel Region are considering enhancing the potential for carbon sequestration through improved vegetation cover, particularly national forest cover through the implementation of real plans sustainable management of natural forests and the strengthening of reforestation efforts by the State, local communities and the private sector.

The strategic axis (A1) is broken down into four (4) programs that are: (i) Support to national and regional programs for the restoration of degraded lands; (ii) Integrated management of critical sensitive environments for resilience building, (iii) Support for the recovery of important natural ecosystems for carbon sequestration and (iv) Promotion of reforestation plans in the context of carbon sequestration. These programs are structured in ten (10) sub-programs (see table below).

Table 1 : Programs and subprograms of Axis A1: Restoration and rehabilitation of degraded lands and ecosystems

PROGRAMS	SUBPROGRAMS
P1: Support to national and regional programs for land restoration	SP 1.1: Support to national neutrality plans for lands degradation
	SP 1.2: Development of "Economics of Land Degradation" and the Green Economy
P2: Integrated management of sensitive ecosystems important for resilience building	SP 2.1: Protection and development of wetland areas important for the Ramsar Convention
	SP 2.2: Reconstruction and protection of fragile ecosystems in the Sahel Region (mangrove stands, tiger bush, basins and oases)
	SP 2.3: Coastal areas protection
	SP 2.3: Coastal protection
P3: Supporting natural ecosystems reconstitution important for carbon sequestration	SP 3.1: Supporting classified forests and other important natural ecosystems
	SP 3.2: Creation promotion and the protected areas and national Parks management
	SP 3.3: Fight against deforestation (clearing) and bush fires
P4 : Promoting reforestation	SP 4.1: Development and implementation a state afforestation program

PROGRAMS	SUBPROGRAMS
plans in the context of carbon sequestration	in the countries of the Sahel Region
	SP 4.2: Promotion of « village wood » operations in local communities and private plantations

5.1.1 P1 Program: Support to national and regional programs for land restoration

The expected sectoral impacts of the Program's implementation are: (i) healthy land to be available; (ii) fertility and organic matter of agricultural land by maintaining a green coverage rate to be increased; (iii) less polluting economic activities and reduction of environmental risks; (iv) green economic activities such as ecotourism or the use of solar energy to be increased.

P1 Program is structured into three (3) subprograms: (i) support to national neutrality plans for land degradation and their extension to the Sahel region; (ii) Support for the restoration of farmland under AIC; (iii) Development of "Economics of Land Degradation" and the Green Economy.

5.1.1.1 Subprogram: Support to National neutrality Plans for Lands degradation

The Major actions of this subprogram are: Definition and appropriation of Methods, Tools and relating expertise for neutrality; (ii) Implementation of information systems and indicators monitoring; (iii) Lands restoration scaling at national level according to neutrality approach.

5.1.1.2 Subprogram: Development of "the economy of land degradation" and "Green Economy"

The UN General Assembly has declared 2015 as the International Year of soils and recognizes the opportunity that Africa remains the most seriously affected region of land degradation. The statement calls on the international community to invest in the fight against land degradation and encourages actions to fight from which the costs of implementation benefits from the concept of economy of land degradation.

Solid data and progress of the first studies on soil erosion and declining productivity of 100 million ha of cultivated lands across 42 African countries show that "no action could impact over 12 % of the gross domestic product. "

The approach "economy of land degradation" provides a credible economic argument for countries of the Sahel Region to achieve the objectives of sustainable development.

Furthermore, the green economy is an innovative concept in "low-carbon development strategies". It is registered in the NDC of several countries such as Mali and Niger. It encourages the promotion of a set of less polluting activities and reduce environmental risks while avoiding shortages of resources and protecting the environment. This is the case of the recovery of non-wood forest products such as gum arabic, associated with planting of Acacia in Senegal in the case of irrigation forms based on solar energy and water saving.

The major actions of this subprogram are: (i) strengthening national capacity to carry out the assessment of the costs of land degradation and investment profits (ii) implementation of pilot projects and dissemination of experience; (iii) Support to diversification of the green economy activities; (iv) support to the promoters of the green economy and people's participation in the green economy.

5.1.1.3 P1 Program Indicators: Support to national and regional programs of lands restoration

Program monitoring will be carried out based on the indicators proposed in the table below.

Table 2: P1 Program Indicators: Support for national and regional programs of land restoration

Indicators	Reference (2018)	2020 targets	2025 targets	2030 targets	Source
1 % Of the land affected by degradation	N/A	50%	25%	10%	National plans on neutrality
2 % of Reclaimed land	N/A	50%	75%	90%	National plans on neutrality
3 Areas covered by the AIC (ha)	N/A	5000	25000	45000	Idem
4 Dominant forms of land degradation and their degradation costs	N/A	10%	50%	100%	Ministry of Environment Report
5 Earnings from investments in dominant forms of degradation and valuation gains	N/A	10%	50%	100%	Ministry of Environment Report
6 Number of green activities supported and accompanied	N/A	20	60	100	Ministry of Environment Report
7 Number of green jobs created	N/A	100	1000	5000	Ministry of Environment Report

5.1.2 P2 Program: Integrated management of sensitive ecosystems important for resilience building

The program is to identify and better manage vulnerable areas that are both unique ecosystems in terms of their productive potential, biodiversity and economic and ecological interests of importance of research.

The expected sectoral impacts of the implementation of the Program 2: (i) biodiversity to be improved; (ii) scientific knowledge on fragile ecosystems to be improved; (lii) The regulations on safeguard of fragile environments to be respected; (lv) The works of active protections to be effective.

Program 2 is divided into three (3) subprograms: (i) protection and management of wetlands of importance to the Ramsar Convention; (li) reconstitution and protection of fragile ecosystems in the Sahel Region (mangrove stands, tiger bush, bowls and Oasis); (lii) mechanical and biological protection coastal areas.

5.1.2.1 Subprogram: Protection and development of important wetland for the Ramsar Convention

The major actions of this subprogram are: (i) Regular inventory of species, improved biodiversity and environmental design; (li) participatory management of wetlands involving residents.

5.1.2.2 *Subprogram: Reconstitution and protection of fragile ecosystem in the Sahel Region (mangrove stands, tiger bush, bowls and oases)*

The major actions of this subprogram are: (i) Scientific studies of fragile environments (ii) The implementation of monitoring pilot projects for fragile environments; (lii) implementation of pilot projects for valuation fragile environments.

5.1.2.3 *Subprogram: Coastal areas protection*

The major actions of this subprogram are: (i) physical (implementation of spikes of protection), and biological (belt plantations) protection of coastal important areas; (li) the definition and implementation of adequate regulation of coastal areas.

5.1.2.4 *P2 Program Indicators: Integrated management of sensitive environments important for strengthening resilience*

The P2 Program monitoring is ensured through the following indicators proposed in the following table:

Table 3: P2 Program Indicators: Integrated management of sensitive environments important for strengthening resilience

Indicators	Reference (2018)	2020 targets	2025 targets	2030 targets	Source
1 Number of wet sites inventoried, described and protected	N/A	20	40	75	Ministry of Environment Reports
2 Number of fragile areas inventoried, protected and followed on the scientific plan (mangrove tiger bush, basins and oases)	N/A	30	50	100	Ministry of Environment Reports
3 Length of coastal protected sites by country	N/A	30 km	50 km	100 km	Ministry of Environment Reports
4 % of Recovered fragile ecosystem areas	N/A	20%	50%	80%	Ministry of Environment Reports

5.1.3 *P3 program: Support to the reconstitution of natural ecosystems important for carbon sequestration*

The expected sectoral impacts of the implementation of the Program 3: (i) Carbon sequestration capacity to be increased; (li) The deforestation / clearing rate to be reduced and maintained at a low level (deforestation rate ranging from 60,000 to 100,000 ha per year and per country); (lii) The Plant coverage through reforestation to be increased; (lv) The cumulative GHG emissions compared to the reference year to be reduced by 2030.

The P3 program is structured in three (3) subprograms: (i) Support for the rehabilitation of classified forests and other important natural ecosystems; (li) Promoting the establishment and management of protected areas and national parks; (lii) Action against deforestation / clearing and bush fires.

5 For the overall tables of programs indicators "N/A" means "Not Available".

5.1.3.1 Subprogram: Support for the reconstitution of classified forests and other natural ecosystems of importance

The major actions of this subprogram are: (i) supporting the natural regeneration of forests by strengthening forest brigades and equipment (ii) land guarding and partial enclosure forest by setting the bodies concerned mapping means, tracking and gardening; (iii) strengthening the monitoring of forests by making available to competent services of the closing, inventory and regeneration means.

5.1.3.2 Subprogram: Promote the creation and management of protected areas and national parks

This subprogram will be implemented based on the following major actions: (i) monitoring of biodiversity and forest enrichment of national parks by creating tracks for ecosystem monitoring and protection against fires (firewalls); (li) the strengthening of the surveillance parks through the creation of water points and the provision of inventory means; (lii) the tourism management of protected areas and national parks through the training and equipping of forest brigades, as well as the involvement of local people.

5.1.3.3 Subprogram: Fight against deforestation (land clearing) and bushfires

The major actions of this subprogram are: (i) the completion of land development patterns, including increasing the numbers of water and forestry services for monitoring brigades and fires by satellite; (li) participatory forest management involving residents through the implementation of firewalls with the support of local people and the development of participatory databases on fires and land clearance; (lii) strengthening the monitoring of forests

5.1.3.4 P3 Program Indicators “Support to the reconstitution of natural ecosystems important for carbon sequestration”

Program monitoring will be carried out based on the following indicators:

Table 4: P3 Program Indicators: Support for Recapitalization of natural ecosystems important for carbon sequestration

Indicators	Reference (Year)	2020 targets	2025 targets	2030 targets	Source
1 Rate of reduction of greenhouse gas (GHG)	N/A	10%	30%	50%	National communication
2 Reducing deforestation rates by country	N/A	30,000	60,000	100,000	Ministry of Environment Reports
3 Reduction rate of burned areas	N/A	20%	40%	60%	Ministry of Environment Reports
4 Increase of national forest cover	N/A	10%	20%	30%	Ministry of Environment Reports

5.1.4 P4 Program: Promoting reforestation plans in the context of carbon sequestration

The expected sectoral impacts of the implementation of the P4 Program are: (i) forest areas to improve carbon sequestration capacities to be increased; (li) The collective consciousness of the people on the role of vegetation cover to be increased.

The P4 program is structured in two (2) subprograms: (i) Development and implementation of a state program of reforestation in the countries of the Sahel region; (ii) Promotion of "wooden village" and private plantations operations in local governments.

5.1.4.1 Subprogram: Development and implementation of a State program of reforestation in the countries of the Sahel Region

The major actions of this subprogram are: (i) the programming, identification and sites reforestation by administrative units per year, including the identification of sites, the production and mobilization of populations to anneal reforestation; (ii) the protection, management and monitoring of planting sites.

5.1.4.2 Subprogram: Promotion of "village wood" and private plantations operations in local communities of the countries of the Sahel region

This subprogram will be implemented through the following major actions: (i) the programming, identification and by websites reforestation per year focusing on the production and mobilization of populations anneal for reforestation; (ii) protection, management and monitoring of planting sites; (iii) private sector support for the implementation of plantations.

5.1.4.3 P4 Program Indicators: Promotion of reforestation plans in the context of carbon sequestration

The P4 program Monitoring will be ensured based on the following proposed indicators.

Table 5: P4 Program Indicators: Promotion of reforestation plans in the context of carbon sequestration

Indicators	Reference (2018)	2020 targets	2025 targets	2030 targets	Source
1 Reforested area with a greater survival rate of 70%	N/A	10,000	50,000	100,000	national communication
2 Increased carbon sequestration capacity	N/A				national communication
3 Number of municipalities with village wood	N/A	30	50	150	National Environment Reports
4 Private plantations area	N/A	1,000 ha	5,000 ha	15,000 ha	National Environment Reports
5 Increased national carbon sequestration capacity	2020	10%	30%	50%	National Environment Reports

5.2 Axis 2 (A2): Integrated management in water resources

The integrated management in water resources needs the improving knowledge of resources, improving water accessibility and regional cooperation for the rational and fair use of boders water.

Improving knowledge in the field of Water is important to first, measure the impact of climate change phenomena on surface water resources and groundwater reserves, through their level of availability and

behavior and, on the other hand contribute to the implementation of effective measures for the preservation and sustainability of the resources in time and space.

In addition, the availability of the resources is essential for human consumption through improved access to drinking water as well as sanitation that is inseparable from it. This concern is in adaptation measure in the NDC, but also in all the development plans of the countries of the Sahel region, in line with the Millennium Objectives of Development (OMD-2015) and then with the ODD⁶. The water resource is also essential for the economic development of the country through productive uses such as irrigation, livestock, industry, energy, etc.

In terms of the rate of access to drinking water, it is a basic indicator for characterizing the level of development of States. It is in this sense that national visions of national development plans for some countries, or of accelerated growth strategies for others, all attach paramount importance to people's access to safe drinking water and adequate sanitation. These objectives were reaffirmed through international commitments, including the Millennium Development Goals, for a 2015 access rate of 60% for drinking water and at least 30% for sanitation.

Productive use of water refers to the development of agriculture through irrigation in partial or total control as the only way to increase agricultural production. Livestock also depends largely on the mobilization of water resources. The Malabo Declaration on "Transforming Agriculture in Africa for Shared Prosperity and Improved Living Conditions through Harnessing Opportunities for Inclusive Growth and Sustainable Development" places special emphasis on irrigated agriculture as a follow-up to the Comprehensive Africa Agriculture Development Program (CAADP).

With respect to Transboundary waters, regional, sub-regional and river basin organizations are mobilizing to develop programs related to climate change resilience. For the implementation of these programs, special emphasis is placed on regional cooperation as a means of accelerating integration.

Axis 2 is broken down into six (6) programs: (i) Support to reinforce knowledge of water field; ii) Observation and monitoring of surface and underground water resources; (iii) Preservation and management of water resources; (iv) Urban and village hydraulics; (v) Pastoral and agricultural hydraulics; (vi) Cooperation for sharing and management of water resources (see table below) .

Table 6: Programs and subprograms of the Axis 2 (A2): Integrated Management in water resources

PROGRAMS	SUBPROGRAMS
P5: Support to strengthening the knowledge in the field of water	SP 5.1: Water Research and development.
	SP 5.2: Establishment of databases on urban and village water works in the states
	SP 5.3: Establishment of databases on hydrogeology and characteristics of groundwater resources.
P6: Observation and monitoring of surface water and groundwater resources	SP 6.1: Support for the dissemination of meteorological observation results to the States
	SP 6.2: Support for the installation and strengthening of observatories water in countries watersheds.
	SP 6.3: Support to the operationalization of the weather models in the States.
P7: Conservation and water resource management.	SP 7.1: Support for the dissemination of meteorological observation results to States

PROGRAMS	SUBPROGRAMS
	SP 7.2: Supporting the installation and strengthening of observatories water in countries watersheds.
	SP 7.3: Support to the operationalization of the weather models in the States.
P8: Urban and village hydraulic	SP 8.1:
	SP 8.2:
P9: Pasrtoral and agricultural hydraulic	SP 9.1:
	SP 9.2:
P10: Sharing cooperation and water resources management	SP 10.1:
	SP 10.2:

5.2.1 P5 Program: Support to strengthen the knowledge of the field of water

This program is divided into three sub programs: i) Water research and development; ii) Establishment of databases on urban and village water works in the States (inventory); iii) Establishment of databases on hydrogeology and characteristics of groundwater resources.

Table 7: P5 Program Indicators: Support to strengthen the knowledge of the field of water

Indicators	Reference (2018)	Targets 2020	Targets 2025	Targets 2030	Source
8 % of inventoried and characterized water sources	N/A	20%	75%	100%	Reports from ministries in charge of water
9 Number of countries having databases about hydraulic work	N/A	20%	75%	100%	Reports from ministries in charge of water
10 Number of countries having databases about groundwater resources	N/A	20%	75%	100%	Reports from ministries in charge of water

5.2.2 P6 program: Observation and monitoring of surface water and groundwater resources

The P6 Program, concerning the observation and monitoring of surface water and groundwater resources, is important because it prevents any changes in the resource and make arrangements for its preservation.

This program is available in three (3) subprograms that are: i) Support for the dissemination of meteorological observation results to the States; ii) Support installation and building water observatories in countries watersheds; iii) Support to the operationalization of the weather models in the States.

Table 8: P6 Program indicators: Observation and monitoring of surface water and groundwater resources

Indicators	Reference (2018)	Targets 2020	Targets 2025	Targets 2030	Source
1 Volume of suave water available in the region	N/A	RS ⁴ +10%	RS+25%	RS+50%	Reports from ministries in charge of water
2 Number of countries having water observatories	N/A	20%	75%	100%	Reports from ministries in charge of water
3 Number of countries having	2020	10%	50%	100%	Reports from ministries

⁴ RS = Reference Situation (Yearly reference values)

Indicators	Reference (2018)	Targets 2020	Targets 2025	Targets 2030	Source
operational model of weather forecast					in charge of water
4 Investments incomes on dominant forms on profit degradation and evaluation	2020	10%	50%	100%	Ministry of Environment Report

5.2.3 P7 Program: Conservation and water resource management.

This program is the result of two previous programs, aims to support all actions to preserve water and to strengthen its resources management. It is the materialization of actions for climate change adaptation of populations and their livelihoods.

This program is composed of the four (4) subprograms that are: i) Securing and protecting water resources against seawater intrusion and invasion of wild aquatic plants; ii) Operationalization of Integrated Management of National Programs for Water Resources (PN GIRE); iii) Flood prevention and protection of riverbanks and coastal; iv) Mobilization of water resources.

Table 4 : P7 Program Indicators: Conservation and water resource management.

Indicators	Reference (2018)	Targets 2020	Targets 2025	Targets 2030	Source
1 Improving suave water quality in the region	N/A	RS ⁵ +10%	RS+25%	RS+50%	Reports from ministries in charge of water
2 Number of countries having water observatories	N/A	20%	75%	100%	Reports from ministries in charge of water
3 Number of countries having operational model of weather forecast	2020	10%	50%	100%	Reports from ministries in charge of water

5.2.4 Urban and Village Hydraulic

The implementation of this program will be carried out through two (2) subprograms: i) Access to drinking water and sanitation; ii) Development of village water and building resilience against climate change in rural areas.

The urban and village hydraulic programs include actions related to education and the implementation of urban hydraulic works with the new drinking water supply or the extension of existing networks in urban areas. The village water supply programs include the drilling project implementation fitted with hand pumps or renewable energy in mini-systems mainly.

Table 5 : P8 Program Indicators: « Urban and village Hydraulic »

Indicators	Reference (2018)	Targets 2020	Targets 2025	Targets 2030	Source
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⁸SR = Reference Situation (Yearly reference values)

1	Number of hydraulic works realized	N/A	RS +10%	RS +25%	RS+ 50%	Reports from ministries in charge of water
2	Number of reservoirs for the agricultural and pastoral use	N/A	RS +10%	RS +25%	RS+ 50%	Reports from ministries in charge of water
3	Coverage rate in Water needs	2020	50%	75%	80%	Reports from ministries in charge of water

5.2.5 P9 program: Pastoral and agricultural hydraulic

This program is one of the most ambitious programs because agriculture and livestock are the backbone of the economy of most countries of the Sahel region. The agricultural sector and the livestock are the two sectors which vulnerabilities to the phenomena of climate change are the most important.

This program will be implemented through two (2) main subprograms: i) Development of ponds and wells for livestock; ii) Rehabilitation or dams or reservoirs for irrigation uses.

Table 11: P9 Program Indicators: « Pastoral and agricultural hydraulic»

Indicators	Reference (2018)	Targets 2020	Targets 2025	Targets 2030	Source	
4	Number of hydraulic works realized	N/A	RS +10%	RS +25%	RS+ 50%	Reports from ministries in charge of water
5	Number of reservoirs for the agricultural and pastoral use	N/A	RS +10%	RS +25%	RS+ 50%	Reports from ministries in charge of water
6	Coverage rate in Water needs	2020	50%	75%	80%	Reports from ministries in charge of water

5.2.6 P10 Program: Cooperation for sharing and water resources management

The realization of this program will be based on two (2) subprograms that are: i) the management of transboundary resources; ii) the Water Charter between basin States.

Tableau 6 : P10 Program Indicators: Cooperation for sharing and water resources management

Indicators	Reference (2018)	Targets 2020	Targets 2025	Targets 2030	Source
1 Improving datas and information quality exchanged between States	N/A	RS ⁶ +10%	RS+25%	RS+50%	Rapports des ministères en charge de l'eau
2 Number of countries to have respected the entire management guidelines and rules		RS +10%	RS +25%	RS+ 50%	Rapports des ministères en charge de l'eau
3 Number of Basin Organizations having Water observatories	N/A	20%	75%	100%	Rapports des organismes de bassin

5.3 Axe 3 (A3): Sustainable management of agricultural and pastoral systems

Identification programs, sub-programs in the agro-pastoral field was made from the actions planned by the 17 Sahelian countries, recorded in their NDCs, in the agropastoral field, in terms of mitigation and adaptation and other programmatic documents (policies and strategies, plans, programs and projects) as well as major issues arising from the established diagnosis. It should be noted that many planned actions in the agro-pastoral sector have implications for both mitigation of greenhouse gas emissions and adaptation to climate change. The classification of a program in one or other of the categories takes into account the dominant dimension of its major actions.

this axis is broken down into five (5) programs: (i) promotion of low-carbon agricultural production systems; (ii) Promotion of low carbon animal production systems; (iii) Promotion of models for intensification of sustainable agricultural and animal production; (iv) Restoration of agricultural and pastoral lands; (v) Agricultural and pastoral risk management (see table below).

Table 7 : Axis 3 Programs and subprograms: Sustainable Management of Agricultural and Pastoral Systems

PROGRAMS	SUBPROGRAMS
P11: Promotion of the Agricultural production systems sober in Carbon	SP 11.1: Sustainable management of soils fertility
	SP 11.2: Sustainable management of irrigated Systems
P12: Promotion of the livestock production systems sober in Carbon	SP 12.1: Promotion of integrated systems Agriculture-Breeding
	SP 12.2: Securing Pastoral production Systems
P13: Promotion of intensification models of agricultural and livestock sustainable productions	SP 13.1: Promotion of sustainable agricultural intensification models
	SP 13.2: Promotion of intensification models of sustainable livestock production
P14: Restoration of Agricultural and Pastoral Lands	SP 14.1: Restoration of Agricultural Lands
	SP 14.2: Restoration of Pastoral ways
P15: Agricultural and pastoral Risks Management	SP 15.1: Promotion of the insurance on agricultural and livestock productions
	SP 15.2: Improving the knowlegde and the Risks Management related to Agricultural and Livestock productions

⁶ RS = Reference Situation (Yearly reference values)

5.3.1 P11 Program: Promoting Carbon sober farming systems

The expected sectoral impacts of the implementation of the program "Promotion of Carbon simple farming systems" are: (i) Knowledge of the structures of public and private support and advice Carbon sober agricultural production systems; (ii) Dissemination by structures of public and private support and advice Carbon sober farm models; (iii) increase the number of farms applying simple Carbon production systems; (iv) The number of operating modes practitioner irrigation limiting the anaerobic fermentation is increased.

The program "Promoting Carbon sober farming systems" is structured in two (2) subprograms: (i) Sustainable management of soil fertility; (ii) Sustainable management of irrigation systems.

5.3.1.1 Subprogram: Sustainable management of soil fertility

The routine "sustainable management of soil fertility" concerns both pluvial and irrigated crops. Its major activities are: (i) inventory of good agricultural practices and techniques for effective and efficient use of mineral fertilizers and organic manuring; (ii) the dissemination of good agricultural practices and techniques for effective and efficient use of mineral fertilizers and organic manuring (iii) Improvement of production and transport of manuring.

The objective is to reduce nitrogen fertilizer inputs, (micro doses, practice of deep urea placement - PPU), with economic benefits and environmental, to adapt the input frequencies to crop needs and to reduce losses due to volatilization. With regard to appropriate good farming practices, this will include the promotion of soil carbon sequestration through conservation agriculture (based on reduced tillage, cover)

5.3.1.2 Subprogram: Sustainable management of irrigation systems

The subprogram "*Sustainable management of irrigation systems*" mainly concerns rice-growing, responsible of methane emission due to crop immersion conditions. The major actions of this subprogram are: (i) the inventory of good practices in Intensive rice-growing System (RSI); (ii) diffusion of Intensive Rice-growing System (IRS).

IRS is an agro-ecological and intelligent method climate change, which allows farmers to increase yields in a natural way by transplanting young plants after 8 days instead of 30, and drying the rice paddy regularly, so SRI is a set of integrated techniques associating the density of transplanting, the choice of adapted varieties, the use of reduced quantities of seeds, the practice of a manual sarco-hoeing, the use of the organic material in partial substitution to the chemical fertilizers, an intermittent irrigation allowing avoid the presence of a permanent water slide. The reduction of rice immersion periods considerably limits the fermentation and therefore leads to a reduction in methane emissions (CH₄). With little or no nitrogen fertilizer, this also results in low emissions of nitrous oxide (N₂O). However, N₂O can be produced in the case of spreading animal manure of animal origin before impoundment.

5.3.1.3 P11 Program indicators: promotion of agricultural sober carbon production systems

Relevant indicators for monitoring of the program "Promotion of low agricultural production systems Carbon "are summarized in the table below. The indicator values for the base year (2018) are not available and are therefore to be established in the framework of the implementation of the CIP SR.

Table 14: P11 Program indicators "Promoting carbon sober farming systems"

Indicators	Reference (2018)	Targets 2020	Targets 2025	Targets 2030	Source
1 Proportion of good practices and techniques known to efficient and effective use of inventoried mineral fertilizer (%)	N/A	100%	100%	100%	national and regional structures of Rsearch and Development
2 Proportion of good practice and effective and efficient use of techniques of organic manuring inventoried (%)	N/A	100%	100%	100%	national and regional structures of Research and Development
3 Proportion of farms applying best practices and techniques for effective and efficient use of mineral fertilizer (%)	N/A	RS+ 10%	RS + 25%	RS + 50%	national agricultural development structures
4 Proportion of farms applying best practices and techniques for effective and efficient use of organic manuring (%)	N/A	RS + 10%	RS + 25%	RS + 50%	national agricultural development structures
5 Proportion of good practices and inventoried cultural techniques (%)	N/A	100%	100%	100%	national and regional structures of Research and Development
6 Proportion of farms applying good practices and cultivation techniques (%)	N/A	RS + 10%	RS + 30%	RS + 50%	national agricultural development structures
7 Proportion of good practices System of Intensive rice-growing (RSI) inventoried (%)	N/A	100%	100%	100%	national and regional structures of Research and Development
8 Operating Proportion applying good practices of intensive rice-growing system (RSI) - (%)	N/A	RS + 10%	RS + 30%	RS + 50%	national agricultural development structures

5.3.2 P12 Program: Promoting low carbon animal production systems

The expected sectoral impacts of the implementation of the "Promoting sober animal carbon production systems" program are: (i) knowledge of the structures of public and private support and advice for carbon animal production systems; (ii) a good distribution by the structures of public and private support and advice for carbon farming models; (iii) an increase in the number of livestock farms (agro-pastoralists and pastoralists) applying simple carbon production systems.

The P12 program "Promoting sober carbon animal production systems" is structured in two (2) subprograms: (i) Promotion of integrated crop-livestock systems; (ii) Securing grazing production systems.

5.2.6.1 Subprogram "promotion of integrated farming and breeding systems"

The integration of agriculture and livestock is to enhance complementarities between cropping systems (crop residues, other agricultural by-products, fodder production) and livestock systems (production of organic manuring and energy) to reduce the consumption of elements contributing to the emission of greenhouse gases (fuel, chemical fertilizers) and reducing the GHG emissions from livestock animals.

The major actions of this subprogram are: (i) inventory of good practices in animal feed and animal production simple carbon systems; (li) the dissemination of best practices to improve the quality of animal feed; (lii) energy and organic matter valuation of animal origin.

In general, livestock is a source of GHG emissions, especially methane (CH4) through enteric fermentation. To reduce this methane, we will act on improving the quality of animal feed by improving forage digestibility. For this purpose it will be necessary to resort to a rotation reserving a place for plots-meadows (the floristic composition of which may be enriched if necessary) and for forage crops that the animals will exploit in direct grazing at an appropriate stage or that it will be harvested at an early physiological stage, before the plants are richer in cellulose. In the case of harvest, woody or coarse fodder will be grinded to increase digestibility. It is also possible to install cover crops in association or not with industrial crops or tree plantations (rubber, coffee, cocoa, oil palms ...) or multipurpose crops, both food and feed (cowpea, sorghum, peanut, etc.)

The valorization of energy and organic matter of animal origin will be the result of an increasing use of animal energy for cattle and animals for harness and transport. and the development of fattening of small and large ruminants. The action will consist of supporting producers for a more significant development of the exploitation of animal energy and the rational use of organic manure as a partial substitution for chemical fertilizers.

5.3.2.2 Subprogram "Securing pastoral production systems"

Raising security mode for each source of conflict and environmental degradation for others, pastoral farming in the Sahel region is central to the issue of sustainable management of natural resources and accountability of communities.

The major actions of the subprogram "Securing pastoral production systems" are: (i) the evaluation and capitalization of "pastoral units" and "home land" approaches; (ii) servicing and sustainable community management of rangelands; (iii) securing the border transhumance.

5.3.2.3 P12 Program indicators "Promotion of animal carbon sober production systems"

Relevant indicators for monitoring the program "Promotion of low carbon livestock production systems" are summarized in the table below. The indicator values for the base year (2018) are not available and are therefore to be established in the framework of the implementation of the CIP SR.

Table 15: P12 Program Indicators "Promoting sober carbon animal production systems"

Indicators	Reference (2018)	Targets 2020	Targets 2025	Targets 2030	Source
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Indicators	Reference (2018)	Targets 2020	Targets 2025	Targets 2030	Source
1 Proportion of good practice in animal feed and simple animal carbon production systems inventoried (%)	N/A ⁷	100%	100%	100%	national and regional structures of Research and Development
2 Proportion of farms applying good practices in animal feed simple animal carbon production systems (%)	N/A	RS ⁸ + 10%	RS + 25%	RS + 50%	development structures Agriculture / National Livestock
3 Proportion of farms valuing animal power and having increased their use of organic manuring (%)	N/A	RS + 50%	RS + 60%	RS + 75%	development structures Agriculture / National Livestock
4 Proportion structuring grazing land in grazing units / attachment lands (%)	N/A	RS + 10%	RS + 25%	RS + 50%	development structures Agriculture / National Livestock
5 Proportion of pastoral areas serviced and subject to sustainable management (%)	N/A	RS + 10%	RS + 25%	RS + 50%	development structures Agriculture / National Livestock
6 Proportion of mixed cooperation committees on transhumance between functional neighboring countries (%)	N/A	RS + 25%	RS + 50%	RS + 100%	development structures Agriculture / National Livestock
7 Proportion of pastoral areas that have been subject of land development schemes (%)	N/A	RS + 25%	RS + 50%	RS + 100%	development structures Agriculture / National Livestock

5.3.3 P13 Program: Promoting intensification models of sustainable agricultural and livestock production

The intensification aims to achieve a sustainable way, to higher crop yields, through increasing yields per unit area or livestock and improving the efficiency of the use of internal inputs (labor, organic manuring, etc.) and external (mineral fertilizers, fuel, etc.). This is a challenge in a context of austere climate and accelerated degradation of natural resources.

The expected sectoral impacts of the implementation of the P14 program are: (i) the practice of a diversified agriculture to be increased; (ii) the access to renewable energy for irrigation to increase; (iii) the practice of ecological control of diseases and pests to increase; (iv) the producers' access to essential inputs to be improved; (v) agricultural holdings to be secured; (vi) the use of breeds of the most successful animals to be improved; (vii) the number of intensive livestock and semi-intensive to increase; (viii) the national value added in the process of marketing of animal products to be increased.

P13 Program is structured in two (2) subprograms: (i) Promotion of sustainable agricultural intensification models; (ii) promoting sustainable intensification livestock production models.

⁷ NA = Non Available

⁸ RS = Reference situation (values during the reference year).

5.3.3.1 Subprogram "promotion of agricultural intensification sustainable models"

Because of the initial poverty of nutrients in soils in the Sahel region and the difficulty of access to fertilizer and the low value of many Sahelian agricultural products, the intensifying option is geared towards eco intensified to better ensure profitability and sustainability. It will operate an integration of elements of intensive farming, based on the reasonable use of fertilizers and other external inputs, and ecological agriculture. It is possible to intensify production through agro-forestry-pastoral systems to get the most out of the cycles of carbon, nitrogen and minerals without much dependence in relation expensive external inputs.

A major action of this subprogram is to improve soil quality. But this action is quoted here only to be remembered because it is the central object of the subprogram "sustainable soil fertility management "axis 1" reduction in greenhouse gas emissions." Other major actions are: (i) improvement of plant biodiversity; (ii) promoting the efficiency of irrigation systems; (lii) promotion of irrigation systems using renewable energies; (iv) the ecological control of diseases and pests; (v) improving producers' access to necessary external inputs; (vi) improving storage and processing techniques and the development of agricultural marketing infrastructure, (vii) Land security promotion.

5.7.1.1 Subprogram "Promoting intensification models for sustainable livestock production"

Traditional breeding (pastoralism, sedentary ranching) is not able to respond to a continuous increase in demand for animal products (milk, meat, eggs, etc.) in net growth due to high population growth, urbanization and rising living standards, which is accompanied by a change of diets.

If pastoralism appears to be the most profitable form of production in the Sahelian climate, it remains that the modernization and intensification of the livestock sectors are emerging as complementary alternatives to deal with the to come up. In Niger, for example, "the productivity of livestock is so low according to the studies that there should currently be at least 26 cows, 5 calves and various other species composed of camels, sheep, goats and a donkey to ensure the survival of a family of 5 to 6 people in the current production conditions in the pastoral zone, while two Arawak cows properly maintained are enough to cover the needs of a family 5 to 6 people"¹¹

Intensification is therefore required, but it is important to ensure that this intensification is done respecting the environment.

The first major action of this subprogram is the dissemination of production techniques, conservation and efficient use of the forage. This action is part of the subprogram "promoting integrated crop-livestock systems" and therefore is mentioned here as a reminder.

Other actions of this program are: (i) improving the productivity of animal species, (ii) promotion of dairy farming and fattening in semi-intensive and intensive systems, (iii) promoting poultry semi-intensive and intensive systems (iv) improving the processing and marketing of animal products.

5.3.3.3 P13 Program Indicators: Promotion Models of intensification of sustainable agricultural and livestock production

Relevant indicators for monitoring "Promoting models of intensification of sustainable agricultural and livestock production" program are summarized in the table below. The indicator values for the base year (2018) are not available and are therefore to be established in the framework of the implementation of the CIP SR.

Table 16: P13 Program Indicators: Promoting models of intensification of agricultural and animal production.

Indicators	Reference (2018)	2020 targets	2025 targets	2030 targets	Source
1 Additional proportion of farms practicing diversified agriculture (%)	N/A ⁹	RS ¹⁰ +10%	RS + 30%	RS + 50%	national development structures
2 Additional proportion of farms applying irrigation based on renewable energy (%)	N/A	RS + 5%	RS + 15%	RS + 30%	development structures Agriculture / National Livestock
3 Additional proportion of holdings ecological control of diseases and pests	N/A	RS + 5%	RS + 15%	RS + 30%	development structures Agriculture / National Livestock
4 Proportion of farms accessing the fertilizer (%)	N/A	RS + 10%	RS + 25%	RS + 50%	development structures Agriculture / National Livestock
5 Additional proportion of agricultural farms which lands are secure regarding property registration	N/A	RS + 10%	RS + 25%	RS + 50%	development structures Agriculture / National Livestock
6 Additional proportion of intensive or semi-intensive livestock	N/A	RS + 10%	RS + 25%	RS + 50%	development structures Agriculture / National Livestock
7 Additional proportion of intensive and semi-intensive farming using the most powerful races	N/A	RS + 10%	RS + 25%	RS + 50%	development structures Agriculture / National Livestock
8 Part of the national added value in the process of marketing of animal products	N/A	RS + 10%	RS + 25%	RS + 50%	development structures Agriculture / National Livestock

5.3.4 P14 Program: Restoration of agricultural and pastoral lands

The Climate Smart Agriculture, with its approach of integrating the tree into the agrarian environment, aims to increase agro-pastoral productivity while improving the resilience of production systems in the face of climate change and particularly in the face of drought; In the context of Sustainable Land Management in anthropised ecosystems such as crop and pasture areas, the most proven technologies are "water and soil conservation / soil defense and restoration" (CES/DRS) and the development of an agro-forestry system reinforced by the "Assisted Natural Regeneration" of multiple-purpose shrubs.

The expected sectoral impacts of the implementation of the P15 program are: (i) the restored agricultural land to be increased: (ii) restored rangeland areas to be increased.

This program is structured in two (2) subprograms: (i) Restoration of agricultural land; (ii) Restoration of rangeland.

⁹ NA = Not-Available

¹⁰ RS = Reference situation (values during the reference year).

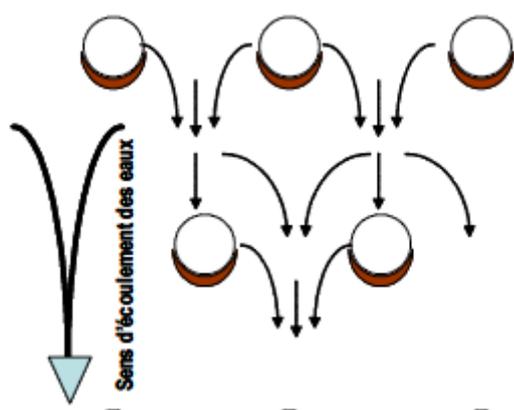
5.3.4.1 Subprogram "Restoring agricultural land"

The restoration of farmland includes physical and biological measures and practices that promote the restoration of fertility.

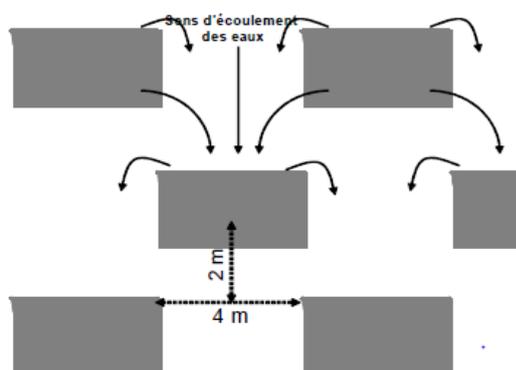
The major action of this subprogram: (i) the recovery of glaze lands and fight against erosion; (ii) assisted natural regeneration.

i) Recovery of glaze lands and fight against erosion

There is a diverse range of land reclamation techniques and erosion control, applied in relation to specific contexts. Usually grouped under the term sustainable land management techniques (SLM), these techniques, applied alone or in combination, were found to have some impact on increasing grain yields and crop straws, up until more than 100% compared to the traditional practice of farmers. Below are listed some of these techniques¹¹.



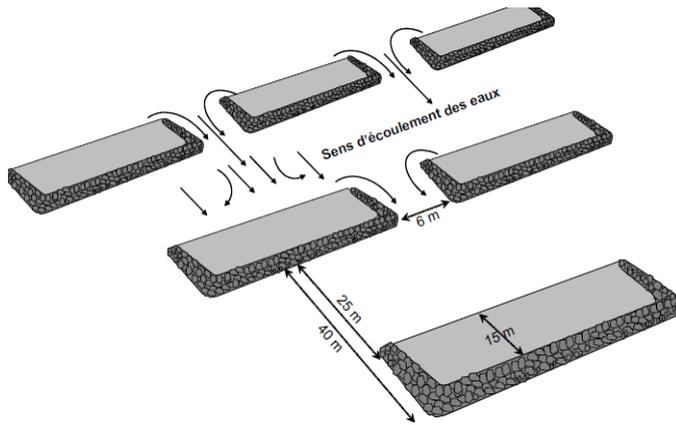
The zai: it involves digging small pockets of water while having excavated soil in an arc downstream from the hole to capture rain water for the benefit of plants. This is a technique of treating the glaze by causing a change in the structure of the soil by a localized supply of stormwater sensor and the organic manuring. It allows the development of degraded areas, making available to the plants, a greater amount of water on impermeable soils by reducing water erosion and increase infiltration.



Agricultural halfpipe is a structure including a semicircular basin generally used for low slope land development. It allows to reclaim land for agriculture, increase water availability for plants and reduce runoff and soil erosion by promoting infiltration.

The half moons can be replaced by stones "V" trenches which create a zone of preferential infiltration to benefit the plants.

¹¹ Illustrations and descriptions are titled as "Collection of data technical sheets in natural resources management and agro-sylvo-pastoral production" – Community Action Program – Ministry of Agricultural Development – Niger.



Agricultural benches on glazes are earthworks, stones or mixed, shaped dike erosion, realized according to the contour lines. They may be continuous or discontinuous, and permeable or impermeable possible to capture runoff water, facilitating its circulation and infiltration across the treated surface and get a glaze revegetation.



Cords dry stone: These are anti-erosion structures made of stones laid on top of each other without particular arrangement, aligned along the contour lines. The objective is to fight against the erosive force of runoff, improve the infiltration of water, maintain and improve soil fertility by the capture and retention of particles displaced or moved by wind. In areas where the stones are not available, dry stone cords can be replaced with grass strips, installed in parallel to contour lines, in the fields, alone or upstream of other anti-erosion structures. Grass strips have an impact on run-off and erosion, such as stone lines that make it possible to curb runoff, favorize their infiltration, stabilize soils and favorize the production of biomass.

ii) Assisted natural regeneration

Assisted natural regeneration is to leave during the clearing, 1 to 3 releases from different strains of trees and shrubs to continue their growth to improve soil fertility, protect against erosion cropland and restore an acceptable level of plant cover, with densities are ranged from 20 to 100 feet / ha depending on the species.

The practice of RNA can be combined with the practice of improved fallows of planting in the cultures of woody systems, of fast growing and nitrogen fixing, producing a significant amount of leaf biomass to rapid decomposition. For the species tested in the Sahel region to fulfill these conditions, there may be mentioned: *Prosopis africana*, *Entada africana* and *Leuceana leucocephala*.

5.3.4.2 Subprogram "Restoring rangelands"

Like the subprogram "restoration of agricultural land," restoring rangeland includes physical and biological measurements plus regenerative management practices. Restoring rangeland allows both a better production of animal fodder and more storage of carbon in biomass and soil.

The major actions of this subprogram are: (i) regenerating degraded lands, (ii) the fight against unpalatable invasive plants and improvement of plant diversity, (iii) improving rangelands.

i) Rehabilitation of degraded lands

The regeneration of degraded lands uses the same types of structures as those used for the regeneration of farmlands. This is to improve soil quality and fight against erosion through erosion control lines strengthened of browse planting and perennial herbaceous forage with strong roots. The works of recovery that have shown some effectiveness are pastoral seats, including the trays eroded to allow the use of marginal land for pastoral and silvopastoral half moons.

ii) The fight against unpalatable invasive plants and improvement of plant diversity

Sahelian rangeland and corridors are often invaded by herbaceous little species or not palatable as *Sida cordifolia*, *mimosoides cassia occidentalis*, *leptadenia pyrotechnica*. We can overcome them by combining several techniques in different situations: (i) mechanical control by destroying weeds by hoeing and pulling before flowering, (ii) labor early and the middle of the rainy season, (iii) temporary change of rangeland allocation to use as crop fields, on the basis of agreements between the community and the farmers on the basis of specifications regarding maintenance requirements of the plots, respect of the change assignment period, (iv) sowing of the treated area by local forage species (*Andropogon gyanus*, *Cenchrus biflorus*, *Alysicarpus ovalifolus*).

iii) Improving rangeland management

Improving rangeland management is to control the pastoral areas through a rotating operating system of forage resources, to improve the quantity and quality of forage, to reduce losses and sound management of forage resources. The space in question is divided into blocks and plots, in blocks grazed in rotation by animal terroirs for reasonable periods of time. If necessary, some of the blocks subject to specific regeneration measures can be put in grazing to allow the vegetation to recover. The block boundaries should be easy to spot in the land: the slopes, hedges, firewalls, etc.

5.3.4.3 P14 Program Indicators: Restoration of agricultural and pastoral lands

Relevant indicators for monitoring the program "Restoration of agricultural and pastoral lands" are summarized in the table below. The indicator values for the base year (2018) are not available and are therefore to be established in the framework of the implementation of the CIP SR.

Table 17: P15 Program Indicators: Restoration of agricultural and pastoral lands

Indicators	Reference (2018)	Targets 2020	Targets 2025	Targets 2030	Source
1 Proportion of restored agricultural lands (%)	N/A ¹²	RS ¹³⁺ 5%	RS + 50%	RS + 100%	national development structures
2 Proportion of restored pastoral areas (%)	N/A	RS + 5%	RS + 50%	RS + 100%	development structures Agriculture / National Livestock
3 Proportion of pastoral areas which are the object of an improved management	N/A	RS + 5%	RS + 30%	RS + 50%	development structures Agriculture / National Livestock

5.3.5 P15 Program: Management of agricultural and pastoral risk

The expected sectoral impacts of the implementation of the program "Management of agricultural and pastoral risks" are: (i) the physical, technical and socioeconomic agropastoral risks to be known better; (ii) prevention strategies and agro risk management to be known better; (lii) the use of insurance in agricultural and pastoral systems to be developed.

The program "Management of agricultural and pastoral risk" is structured in two (2) subprograms: (i) Insurance Promotion on agricultural and livestock production; (li) Improving knowledge and risk management related to agricultural and livestock production.

5.3.5.1 Subprogram "Promotion of agricultural and animal Insurance on productions"

Agropastoral activities in the Sahel region have always been economic activities at risk because of their dependence on the weather. In Africa in general and in the Sahel region in particular, the use of insurance in the farming area is extremely limited, and the majority of farms lacks protection against climatic hazards. A report released in September 2015 on the sidelines of the G20 shows that of the 178 million farmers in developing countries who have made index insurance in 2014, only 450,000 are African, or 0.25%¹⁴.

The major actions of this subprogram are: (i) the evaluation of current experiences in agricultural and pastoral insurance; (li) scaling of best practices in agricultural and livestock insurance.

i) Evaluation of current experiments in agricultural and pastoral insurance

This is to capitalize current experiences regarding agropastoral insurance in the Sahel, including the insurance program called Harvest Sahel Insurance (ARS) launched by the World Bank and many other local and international institutions in 2011, specifically oriented toward the establishment of an index insurance to cover the risk drought in Senegal (groundnuts and maize), Mali (cotton, corn), Burkina Faso (cotton, corn) and Benin (corn). Similar initiatives are being implemented or prepared by the BOAD and the German cooperation.

ii) Scaling of best practices in agricultural and livestock insurance

¹² NA = Non-Available

¹³ RS = Reference situation (values during the reference year).

¹⁴ Atlas Magazine, July 2017. Available on : <https://www.atlas-mag.net/article/l-assurance-agricole-en-afrique>

The "rainfall index insurance" could, if successful, be a future solution to enable secure investments and credits to farmers and thus increase agricultural productivity despite climate risks. The market is virgin intervention, virtually all lines under rain productions that could be affected.

5.3.5.2 Subprogram "Improving knowledge and management risks related to agricultural and livestock production"

To ensure proper management of climate risks across family farms, it is important that they have real time access to information that will improve their knowledge on the probability of the occurrence of risk.

The major actions of this subprogram are: (i) improving producers' access to risk management information; (ii) improving the modeling support for agro risks; (iii) a plea for funding agropastoral risks.

i) Improving producers' access to risk management information

Most countries of the Sahel region have early warning mechanisms at national level and coordinate their initiatives in this field within the framework of sub-regional organizations. The early warning systems allow making available to decision makers, relevant information to facilitate decision-making on climate risk management, vulnerability of populations and interventions in food security and social safety. However, the information flow towards the main players are the producers, and their organizations remain limited. This is why it is necessary to develop information stream to afford to put at the disposal of actors, real-time information on: i) weather forecasts; ii) the anticipated special events: droughts, floods, forest fires, epidemics, animal diseases; iii) advice on alternative cropping calendars (planting dates by crop and agro-ecological zones); iv) the general situation of pastures, water points and disease outbreaks; v) advice on possible stocking of animals based on cyclical fluctuations; vi) the prices of agricultural products and animals on domestic and regional markets.

ii) Improvement of modeling of agropastoral risks support

Given the geographic dispersion of agro producers in the Sahel region, risk awareness and management of individual damage incurred by the producers of these areas can not be reasonably estimated by conventional methods using expertise on the field, case by case, to estimate economic losses during a disaster.

Index insurance that involves modeling of yield losses from a variable (eg rainfall) bases its claims on a threshold set in advance, based on the average yield data or livestock mortality by zone, on weather data such as rainfall or temperature, or finally on satellite images that will measure the growth of vegetation. If this innovative approach certainly reduces costs and transaction expertise, it comes up against the problem of basis risk. We talk about basis risk when there is a difference between the estimated loss by the index and the actual loss suffered by the farmer. A farmer can have paid an insurance premium, suffer a loss, and do not receive compensation. This may be related to a defect in the quality of data in their modeling, or geography. However, when this basic risk is low and controlled, index insurance is an appropriate response to manage risks, including climate, which weigh on production.

iii) Advocating for financing agro-pastoral risks

Banks and microfinance institutions are showing great reluctance to finance the activities of the agricultural sector because of the risks inherent in these activities. The use of agricultural and livestock insurance, ensuring the management of risk, should facilitate access of rural producers to credit. Agricultural insurance, while it secures the loans could be a niche for microfinance institutions to diversify their products and expand their customer base. Based on an understanding of the determinants of agropastoral risks, it will be possible to make a plea from financial institutions for the financing of these risks.

5.3.5.3 P15 Program Indicators: Agropastoral risk management

Relevant indicators for monitoring the program "agricultural and pastoral risk management" are summarized in the table below. The indicator values for the base year (2018) are not available and are therefore to be established in the framework of the implementation of the CIP SR.

Table 18: P15 Program Indicators: Agricultural and pastoral risk management

Indicators	Reference (2018)	Targets 2020	Targets 2025	Targets 2030	Source
1 Proportion of countries that surveyed agricultural and pastoral risk categories (%)	0%	100%	100%	100%	National Research and Development Structures
2 Proportion of countries with developed strategies for prevention and agricultural and pastoral risk management (%)	0%	100%	100%	100%	development structures Agriculture / National Livestock
3 Proportion of experiences in agricultural and pastoral insurance of the Sahel capitalized region	0%	100%	100%	100%	development structures Agriculture / National Livestock
4 Proportion of farms using agricultural insurance	N/A ¹⁵	RS ¹⁶⁺ 5%	RS + 15%	RS + 30%	development structures Agriculture / National Livestock
5 Proportion of livestock farms using agricultural insurance	N/A	RS ¹⁷⁺ 5%	RS + 15%	RS + 30%	development structures Agriculture / National Livestock
6 Proportion of countries that have implemented an effective system of information for producers on agricultural and pastoral risk (%)	0%	10%	30%	75%	development structures Agriculture / National Livestock

5.4 Axis 4 (A4): Improving energy efficiency

The planned investments to improve energy efficiency include reducing greenhouse gas emissions (contribution to the global effort to reduce GHG emissions, and restoration of degraded ecosystems because of the energy requirements associated with exploitation of biomass in particular). These investments are targeted energy subsector and sector where returns production modes of transmission (transportation and distribution) and/or energy consumption are ineffective, example (in order of importance): the wood energy sector, the production of thermal power, transportation in general, the transmission of electricity (networks) and habits of energy consumption in public buildings. It's about basically investments enabling to significantly make energy economy.

In addition, the renewable energy potential of the Sahel region is enormous (see the CIP-SR diagnosis report on the state of play), but under exploited due to the technological and economic backwardness of the region. At the same time, the region is known for its energy poverty, which is measured by its low level of conventional energy consumption and its dependence on biomass energy (notably woodfuel and charcoal fuels), which are being lost more or less irreversible.

¹⁵ ND = Non-Available

¹⁶ RS = Reference situation (values during the reference year).

¹⁷ RS = Reference situation (values during the reference year).

Finally, the energy underdevelopment of the Sahel region is manifested by its low electrification rate. In fact, none of the countries in the region has achieved 100% urban electrification rate, and the rate of access to electricity in rural areas is between 5% and 25% of the rural population according to the countries. (See the CIP-SR Diagnostic Report on the state of play).

The axis (A4) "Improving Energy Efficiency and access to proper energy" is divided into three (3) programs: i) Energy efficiency; ii) Improving Energy mix, (iii) Improving the access to energy (See the below table)

Table 19: Axis 4 Programs and subprograms: Improving energy efficiency

PROGRAMS	SUBPROGRAMS
P16: Energy efficiency	SP16.1: Promotion of improved stoves with wood and charcoal
	SP16.2: Promotion of improved technologies of charring wood and producing charcoal
	SP16.3: Development of alternative energy systems in forest fuel (biogas, biofuels, agroforestry residues, etc.)
	SP 16.4: Technological upgrading of energy-consuming thermal power plants
	SP 16.5: Technological upgrading of electronic energy transmission (transportation and distribution) networks
	SP 16.6: Promotion of low consumption lamps (LCL) and Public Lighting through Solar Streetlights
P17: Improving Energy Mix	SP17.1: Standardization, Certifications and Optimization of Conventional energy demand
	SP17.2: Valorization of Hydropower potential
	SP17.3: Promotion and accelerated development of other renewable energy forms for electrification
P18: Improving the access to Energy	SP18.1: Promotion and development of sustainable rural electrification
	SP18.2: Promotion of alternative domestic propane to wood energy
	SP18.3: Multifunctional access Platform to energy and driving forces

5.4.1 P16 Program: Energy Efficiency

The objective being to reduce the pressure of the traditional energy demand (firewood and charcoal) on the forest resources of the Sahel Region and to promote the reconstitution of the forest heritage. The implementation of this program requires a real collaboration between the Ministries in charge of energy, environment and water and forests, agriculture and livestock.

The sectoral effects expected from the implementation of this program is: i) The demand for traditional energy is reduced; ii) The forest heritage is reconstituted; (iii) The development of new alternative energy sectors is promoted.

This program has been broken down into six (6) subprogrammes: (i) Promotion of improved wood and charcoal stoves; (ii) Promotion of improved wood carbonization technologies and charcoal production;

(iii) Development of energy alternatives to forest fuel (biogas, biofuels, agro-forestry residues, etc.); (iv) Technological upgrading of energy-intensive power plants; v) technological upgrading of transmission networks (transmission and distribution) of electrical energy; vi) Promotion of Low Consumption Lamps (LCL) and public lighting through solar street lights.

1. *Subprogram: Promotion of improved wood and charcoal stoves*

The major actions to be fought are the revival and development of national programs for the promotion of improved stoves.

2. *Sub-program: Promotion of Improved Wood Charring Technologies and Charcoal Production*

The major actions of this subprogramme are the revival and development of national programs for the extension of improved wood carbonization and coal production technologies.

3. *Sub-program: Development of alternative energy sectors to forest fuel*

The main actions of this sub-program concern the revival and development of national programs for the promotion of biogas and biofuels

4. *Sub-program: Technological upgrade of energy-consuming thermal power stations*

Main actions to be undertaken at this level concern the decommissioning and replacement of obsolete thermal power plants and power plants (modernization of the heat park),

5. *Sub-program: Technological upgrade of transmission networks (transmission and distribution) of electric energy.*

The major actions to be undertaken at this level concern the maintenance / technological upgrading of electricity transmission networks (transmission and distribution) and the popularization of low-energy consumption lamps (LBCs) and solar streetlights for solar energy and public lighting.

6. *Subprogram: Promotion of Low Consumption Lamps (LCL) and public lighting through solar streetlights.*

The major actions to be undertaken in this area involve incentives for consumers to use Lamps to Low Consumption (LCL) through the importation of this type of equipment and the use of solar streetlights.

Table 8 : P16 Program Indicators: Energy Efficiency

Indicators	Reference (2018)	Targets 2020	Targets 2025	Targets 2030	Source
1. Promotion of improved fireplaces with wood and charcoal	Less than an improved fireplace per household user of wood energy	At least one improved fireplace per household user of wood energy	At least two improved fireplaces per household user of wood energy	Exclusive use of improved fireplaces	<ul style="list-style-type: none"> Energy information system (EIS Annual Report/Country)
2. Promotion of improved wood carbonization technologies and charcoal production	N/A	At least 10% of charcoal production through improved Carbonization stoves	At least 10% of charcoal production through improved Carbonization stoves	Exclusive use of improved stoves for wood carbonization & Charcoal production	<ul style="list-style-type: none"> Ministry of Environment Annual report /Directorate of Water and Forests ; EIS Annual report/Country
3. Development of energy alternatives to forest fuel (bigas, biofuels, agro-forestry residus)	N/A	Remarkable traces in the energy balance of the countries	At least 0,5 to 1 % of energy balance of the countries	At least 3 to 5 % of energy balance of the countries	<ul style="list-style-type: none"> Ministry of Environment Annual report /Directorate of Water and Forests ; EIS Annual report/Country
4. Improvement of the overall energy efficiency of non-decommissioned thermal electric units (reduction of specific consumption of fuels and lubricants)	N/A	5 % in addition compare to the Reference situation in 2018	15 % in addition compare to the Reference situation in 2018	20 % in addition compare to the Reference situation in 2018	<ul style="list-style-type: none"> Activities report of the electricity sector operators Energy Information System of countries (Annual report EIS/Country)
5. Improvement of the overall energy efficiency of electricity transmission and distribution networks (reduction of line losses)	N/A	5 % in addition compare to the Reference situation in 2018	50 % in addition compare to the Reference situation in 2018	80-90 % in addition compare to the Reference situation in 2018	<ul style="list-style-type: none"> Activities report of the electricity sector operators Annual report EIS/Country
6. Promotion of Low Consumption Lamps (Lighting through LCL)	N/A	Progress of 50 % in addition compare to the Reference situation in 2018	100 % of LCL for lighting	Exclusive Use of LCL	<ul style="list-style-type: none"> Ministry of Energy Annual report; Annual report EIS/Country

Indicators	Reference (2018)	Targets 2020	Targets 2025	Targets 2030	Source
7. Promotion of Public lighting through solar street lights.	N/A	Progress of 10 % in addition compare to the Reference situation in 2018	Progress of 30 % in addition compare to the Reference situation in 2018	Progress of 50-60 % in addition compare to the Reference situation in 2018	<ul style="list-style-type: none"> Ministry of Energy Annual report; Annual report EIS/Country

5.4.2 P17 Program: Improvement of Energy Mix

In the framework of this program, actions aimed at saving energy in the public sector, institutionalization of quality control standards for energy equipment and vectors, the rejuvenated fleet investment and the promotion of public transport must be undertaken.

The planned investments for the promotion of renewable energies include hydropower, solar energy, wind energy and geothermal energy applications. They will also focus on the promotion and accelerated development of other forms of renewable energy for electrification (solar, wind, geothermal, etc.)

The expected sectoral effects of the implementation of this program are: i) The energy potential is improved and diversified; ii) Renewable energies are developed. This program has been broken down into three (3) sub-programs: i) Standardization, Certifications and Optimization of Conventional Energy Demand; ii) Valorisation of potentialities in hydroelectricity; iii) Promotion and Accelerated Development of Other Forms of Renewable Energy for Electrification.

5.4.2.1 Subprogram: Standardization, Certifications and Optimization of conventional energy demand

The main actions of this sub-program focus on the realization of energy savings in the public sector, the institutionalization of quality control standards for energy equipment and vehicles, the rejuvenation of the vehicle fleet and the promotion of transport in common. It will promote citizen responsibility behaviors to reduce the waste of electrical energy in public institutions (administrations, schools, health centers, etc.). It will also protect energy consumers through the institutionalization of the control of standards of technological and biochemical qualities of energy equipment and products at the entrance of countries and the Sahel region. It will also promote actions aimed at reducing GHG emissions from the transport sector, particularly through public transit and periodic technical inspections of vehicles and the rejuvenation of the average age of vehicles in circulation.

5.4.2.2 Subprogram: Valorization of Hydropower potential

The major actions of this subprogramme will aim to develop national and regional initiatives for the promotion of hydropower potential, identifying new dam sites, and carrying out the corresponding hydropower projects.

1. Sub program: Promotion and accelerated development of other forms of renewable energy for electrification.

The main actions of this sub-program concern the identification and exploitation of existing possibilities in the field of renewable energies for electrification through the implementation of implementation of solar and wind energy projects, etc.

2. P17 Program Indicators: Improvement of the energy mix

The indicators relating to P17 program: "Improvement of the energy mix" are defined in the table below.

Tableau 9 : P17 Program Indicators «Improvement of Energy Mix»

Indicators	Reference (2018)	2020 Targets	2025 Targets	2030 Targets	Source
1. Increased supply of hydroelectricity	N/A	Progress of 10 % compare to the reference situation in 2018	Progress of 30 % compare to the reference situation in 2018	Progress of 50-60 % compare to the reference situation in 2018	<ul style="list-style-type: none"> Ministry of Energy annual reports; Annual report EIS/Country
2. Increased supply of solar and wind energy	N/A	Progress of 10 % compare to the reference situation in 2018	Progress of 30 % compare to the reference situation in 2018	Progress of 50-60 % compare to the reference situation in 2018	<ul style="list-style-type: none"> Ministry of Energy annual reports; Annual report EIS/Country
3. Increased supply of biogas, biofuels and other modern biomass energy (Industrial and family scale)	N/A	Progress of 10 % compare to the reference situation in 2018	Progress of 30 % compare to the reference situation in 2018	Progress of 50-60 % compare to the reference situation in 2018	<ul style="list-style-type: none"> Ministry of Energy annual reports; Annual report EIS/Country
4. Increased geothermal energy supply	N/A	Progress of 10 % compare to the reference situation in 2018	Progress of 30 % compare to the reference situation in 2018	Progress of 50-60 % compare to the reference situation in 2018	<ul style="list-style-type: none"> Ministry of Energy annual reports; Annual report EIS/Country
5. Increase of renewable energy in primary and final energy balances : Doubling of energy mix rate and reaching 30% of energy mix	N/A	Progress of 10 % compare to the reference situation in 2018	Progress of 50 % compare to the reference situation in 2018	At least 30% rate of the energy mix in the national energy balance	<ul style="list-style-type: none"> Ministry of Energy annual reports; Annual report EIS/Country
6. Energy saving in the public sector (Penetration of solar energy in the public services sector)	N/A	Progress of 5 % compare to the reference situation in 2018	Progress of 20 % compare to the reference situation in 2018	Progress of 50% compare to the reference situation in 2018	<ul style="list-style-type: none"> Operators of electricity sector activities reports Energy information systems of countries (Annual report EIS/Country)
7. Institutionalization of standards for the control of	N/A	Development and validation of legal texts (Laws and	Effective implementation of Laws and	Effective implementation of Laws and	<ul style="list-style-type: none"> Laws and Decrees

Indicators	Reference (2018)	2020 Targets	2025 Targets	2030 Targets	Source
technological and biochemical qualities of equipment and products		decrees of application))	application decrees	application decrees	Glossary • Annual report EIS/Country
8.Reduction of GHG emissions from the transportation sector	N/A	Development and validation of legal texts (Laws and decrees of application)	Effective implementation of Laws and application decrees	Effective implementation of Laws and application decrees	• Ministry of Transports annual reports; • Laws and Decrees Glossary • Annual report EIS/Country

5.4.3 P18 Program: Improvement of the access to Energy

The energy underdevelopment in the Sahel region is characterized by its low rate of electrification. Indeed, no country in the region has reached 100% of urban electrification rate and the electricity access rate in rural areas is between 5% and 25% of the rural population, according to countries (see diagnostic Report of the CIP SR on the inventory).

The investments planned under this axis will contribute to improve access to electricity, access to modern cooking fuels (butane gas ...) and access to the prime form of modernization of agricultural production systems, handicrafts, etc.

The "Improving Access to Energy" program consists of three (3) subprogrammes: (i) Promotion and Development of Sustainable Rural Electrification; (ii) Promotion of domestic butane fuel substitute for wood energy; (iii) Multifunctional energy access platform and drivers.

The sectoral effects expected from the implementation of this program include: (i) access to electrification is facilitated to rural centers; (ii) rural centers access modern fuels; (iii) access to the driving force is facilitated in rural centers.

5.4.3.1 Subprogram: Promotion and development of sustainable rural electrification

The major actions of this subprogramme are: (i) identifying priority needs in this area through national and regional programs; ii) design rural electrification projects to address priority needs; (iii) carry out a program evaluation?

5.4.3.2 Subprogram: Promotion of domestic wood fuel butane gas

The major actions of this subprogramme will include: (i) identification of needs through the development of national programs; (ii) promoting the use of butane gas through government incentives and prices on equipment and gas.

5.4.3.3 Sub-program: Multifunctional Energy Access Platform and Driving Forces

The major actions of this subprogramme are: (i) The design of multifunctional platforms adapted to the needs of rural populations; (ii) development of national platforms development programs; and (iii) popularization of these platforms through incentives to encourage their use by rural populations.

5.4.3.4 P18 Program Indicators: Improving Access to Energy

Indicators for P18 Program "Improving Access to energy "are defined in the table below.

Table 10 : P18 Program Indicators: Improvement of the access to Energy

Indicators	Reference (2018)	2020 Targets	2025 Targets	2030 Targets	Source
1. Access to the (National) electrification rate in number of inhabitant with access	N/A	More than 50 % on average	More than 60 % on average	80-90 % on average	<ul style="list-style-type: none"> Ministry of Energy annual reports; Annual report EIS/Country
2. Access to moder cooking fuels (domestic gas, etc.) in urban areas in term of the number of inhabitant with access	N/A	Progress of 10 % compare to the reference situation in 2018	Progress of 50 % compare to the reference situation in 2018	Progress of 80 to 100 % compare to the reference situation in 2018	<ul style="list-style-type: none"> Ministry of Energy annual reports; Annual report EIS/Country
3. Reduction per capita demand for charcoal in urban areas	N/A	Reduction of 10 % compare to the reference situation in 2018	Reduction of 30 % compare to the reference situation in 2018	Reduction of 50-60 % compare to the reference situation in 2018	<ul style="list-style-type: none"> Ministry of Energy and Water and forests annual Annual report EIS/Country
4. Promotion of multifunctional and multiservice energy platforms (MPTF)	N/A	Progress of 10 % of the nombre de MPTF compare to the reference situation in 2018	At least 1 MPTF per non electrified rural township for more than 2000 inhabitants	At least 1 MPTF per non electrified rural township for more than 1000 inhabitants	<ul style="list-style-type: none"> Ministry of Energy annual reports; Rapport Annual report EIS/Country

5.5 Axis 5 (A5): Development of a communication strategy and advocacy on climate change

Communication on climate change, despite the priority of the documents constituting the United Nations Convention on Climate Change, appears as a weak link in the policies and strategies of the countries of the Sahel Region. In this respect, there is a significant deficit in this component in environmental programs and projects in the Sahel countries. In addition, there appears to be little involvement of local communities, the very communities that are most vulnerable to ecosystem deterioration and which are the priority targets for resilience. Even when they do exist, communication initiatives do not always receive the necessary funding in the context of climate change issues.

This is why the formulation of a real regional climate change and resilience communication strategy is a priority in order to ensure greater visibility on the CIP-SR and its advocacy.

This axis is broken down into two (2) programs: (i) Development of a Regional Communication Strategy on Climate Change and (ii) Implementation of Advocacy (see table below).

Table 11: Programs and subprograms of the Axis 5: Development of a communication strategy and advocacy on climate change

PROGRAMS	SUBPROGRAMS
P19: Developing a regional communications strategy for climate change and resilience	SP19.1: Development and implementation of a regional communication strategy
	SP19.2: Creation and management of a regional portal "Climate Change and Resilience in the Sahel"
P20: Implementation of advocacy	SP20.1: Campaign launch "The Sahel is now!"
	SP20.2: Annual Regional Excellence organized gala.
	SP20.3: Creation and management of a regional youth movement "The Sahel Volunteers".

5.5.1 P19 Program: Development of a Regional Communication Strategy on Climate Change

The Target Objective through this program is to provide the CIP-SR with a real regional communication strategy on climate change and resilience in order to identify the relevant actions and measures to be implemented in the field of communication to make visible and support plan. These actions will be based on the definition of a communication plan on the medium and long term and the dissemination of information on climate change in the Sahel region through appropriate communication channels.

The expected sectoral effects of this program are: i) the CIP-SR is assured of high visibility; ii) the public is better informed through the dissemination of information at the national, regional and international levels.

P19 Program "Development of a Regional Communication Strategy on Climate Change" is organized around two (2) sub-programs: (i) Development and Implementation of a Regional Communication Strategy; ii) Creation and animation of a regional portal "Climate Change and Resilience in the Sahel".

5.5.1.1 Sub-program: Development and Implementation of a Regional Communication Strategy

The main actions of this sub-program are: (i) the formulation of the communication strategy and advocacy; (ii) outreach of the strategy and advocacy to stakeholders; (iii) implementation of the strategy and advocacy at the regional level; and (iv) the evaluation of the communication strategy.

5.5.1.2 Sub-program: Creation and animation of a regional portal "Climate change and resilience in the Sahel"

The major actions of this sub-program are: (i) recruitment of a multidisciplinary team for the design of the portal; ii) portal design with its different features; iii) installation of the portal; and (iv) the feeding and operation of the regional portal by a dedicated team.

5.5.1.3 P19 Program Indicators: Development of a Regional Communication Strategy on Climate Change

Indicators for Program P19 "Development of a Regional Communication Strategy on Climate Change" are defined in the table below.

Table 12 : P19 Program Indicators: Development of a regional communication strategy in climate change

Indicators	Reference (2018)	2020 Targets	2025 Targets	2030 Targets	Source
1. Development of the communication strategy and advocacy	N/A	100%	-	-	<ul style="list-style-type: none"> Document available and popularized Annual reports of the CIP SR
2. Level of ownership of the CIP SR by Stakeholders	N/A	100% of Stakeholders know the CIP SR and have implemented their CIP SR actions Programming			<ul style="list-style-type: none"> Annual reports of the CIP SR
3. Evaluation of the communication and advocacy strategy	N/A	Available evaluation report	-		<ul style="list-style-type: none"> Annual reports of the CIP SR Evaluation report

5.5.2 P20 Program: Implementing Advocacy

The CIP-SR and its implementation require strong advocacy towards the Technical and Financial Partners to ensure the necessary visibility to obtain the support of the different parties to the financing of the Plan. The various international Organizations (the United Nations, Cop24, the Davos Forum, the Francophone Summit, and African Union Summit) and the Round Table on the financing of the CIP-SR, are all opportunities to be exploited to make a plea.

The sectorial effects expected from this program are: i) the partners are better informed and adhere to the funding of the ICP-SR; ii) the funding requirements of the CIP-SR are 100% covered.

The P20 Program is structured in three (3) sub-programs: i) Launch of a "The Sahel is Now!" With the First Ladies of the Sahel, under the High Patronage of the President of the Republic of Niger; ii) Annual organization of a Regional Gala of Excellence with 8 awards for the best press productions on climate change; iii) Creation and animation of a Regional Movement "Sahel Volunteers".

5.5.2.1 Sub-program: Launch of a campaign "The Sahel is now!" With Sahel First Ladies, under the High Patronage of the President of the Republic of Niger

The major actions of this routine include: i) the preparation of the campaign by the JWG and Niger chairing the CC RS; (ii) the development of an agenda and program for the campaign; iii) the invitation of the First Ladies of the Sahel Region; iv) the organization of the campaign; v) evaluating the campaign.

5.5.2.2 Sub-Program: Annual organization of a Regional Excellence Gala with 8 awards that reward the best media production on climate changes

The major actions in this sub-program are: i) i) the preparation of the Gala by the JWG and Niger holding the chairmanship of the CC-RS; (ii) the development of an agenda and program for the gala evening; iii) the organization of the gala evening; v) evaluation of the gala Reception.

5.5.2.3 Sub-program: Creation and animation of a regional movement "Sahel Volunteers"

The main actions of this sub-program are: i) the official creation of this movement by an act of the CC-RS; (ii) the establishment of a corresponding national movement and the Movement at regional level at the level of each country in the Sahel Region; iii) development of a program for the animation of national movements and the regional movement.

5.5.2.4 P20 Program Indicators: Advocacy Implementation

P20 Program indicators for the "Implementing Advocacy" are defined in the table below.

Table 13 : P20 Programme Indicators: Implementation of Advocacy

Indicators	Reference (2018)	2020 Targets	2025 Targets	2030 Targets	Source
1. Level of information of partners on the CIP SR	N/A	100% of partners are aware on the CIP SR and its programs			Annual reports of the CIP SR
2. Level of coverage of the funding needs of the CIP SR	N/A	10%	50%	100%	Annual reports of the CIP SR

5.6 Axis 6 (A6): Capacity Building

Strengthening the institutional and technical capacity of the administration, research and development institutions, civil society organizations and local actors is a priority in the implementation of the CIP-SR. It is a vast program of capacity building of the different actors which is planned in order to face the different deficits of capacities identified in the diagnostic analysis. This component takes into account training, staffing of structures with modern tools and equipment, access to these tools and their use. It also takes into account the appropriation of tools and methods by the stakeholders.

Moreover, the occurrence of extreme weather events requires research institutions, observations and data and information collection so that their analyses and interpretations by national expertise can inform the various actors and populations on the catches. of decision. Information systems, databases and warning systems must be developed to facilitate decision-making on adaptation measures in the different economic activity areas.

This strategic axis is divided into three (3)) programs that are: (i) Institutional capacity building; (ii) Capacity building of actors in the use of climate change information; (iii) Strengthening coordination at the national and regional levels (see table below).

Table 14 : Programs and subprograms of the Axis 6: Capacity Building

PROGRAMS	SUBPROGRAMS
P21 : Institutional Capacity Building	SP 21.1. Capacity building for producing climate change information
	SP 21.2: Capacity building for stakeholders in the use of climate change information
	SP 21.3 : Capacity building of research and development structures
	SP 21.4 : Translation of the CIP SR into Operational Projects
	SP 21.5 Institutional capacity building in the field of energy
P22: Stakeholders capacity building	SP 22.1 : Capacity building of different stakeholder groups for the implementation of Multilateral Environmental Agreements (MEAs)
	SP 22.2 : Development of multiannual training programs for national staff in the field of negotiations
	SP 22.3: Implementation of executive training programs in the field of negotiations
	SP 22.4: Capacity building of media and civil society stakeholders in the field of communication and advocacy
P23: Strengthening of the coordination at national and regional levels	SP23.1 : Development and implementation of States capacity building program to facilitate access to climate funds
	SP 23.2 Coordination by the Joint Working Group (JWG)
	SP 23.3 : Advocacy for basin organizations
	SP 23.4 : Advocacy for regional organizations

5.6.1 P21 Program: Institutional Capacity Building

The objective of this program is to strengthen the capacity of institutions in the Sahel Region in the field of climate change information production to inform users in real time through early warning mechanisms and thus equip them with a capacity to anticipate climatic events. This will help to strengthen the resilience of people and ecosystems to the hazards of climate change.

The expected sectorial effects of this program are: (i) Climate information is available; (ii) Relevant information for decision making is available; (iii) The means of communication and dissemination of information are available; (iv) A significant proportion of the population accesses and knows how to use climate information; (v) A significant portion of the population is safe from extreme events through the mastery and use of climate information.

This program is broken down into five (5) subprogrammes: i) Capacity building production of climate change information; ii) Capacity building of stakeholders in the use of Climate Change information; (iii) Capacity building of research and development structures; (iv) Translation of the ICP-RS into operational projects; (v) Institutional capacity building in the field of energy.

5.6.1.1 Sub-program: Capacity Building for Producing Information on Climate Change

The major actions of this sub-program are: (i) Development of educational tools for awareness campaigns; (ii) the establishment of information systems and monitoring of indicators; (iii) Periodic reporting and dissemination of information.

5.6.1.2 Subprogram: Capacity Building of Stakeholders in the Use of Climate Change Information

The major actions of this subprogramme are: (i) Raising awareness of the importance of information and its use; (ii) the organization of training workshops on the importance of information; (iii) setting up information systems and monitoring indicators; (iv) Periodic reporting and dissemination of information.

5.6.1.3 Subprogram: Strengthening the capacity of research and development structures

The major actions of this sub-program are: (i) Capitalization of experiences of institutional and organizational strengthening on climate change; (ii) Strengthening structures in units, equipment and tools on climate change; (iii) The creation of observation, data collection and monitoring systems.

5.6.1.4 Sub-program: Translation of the CIP-SR into Operational Projects

The major actions of this subprogramme are: (i) Recruitment of expertise to support national structures in the formulation of operational projects; (ii) the organization of national workshops to validate identified and formulated projects; (iii) The formulation of financing requests to TFPs.

5.6.1.5 Subprogram: strengthening institutional capacities in the energy field

The major actions of this sub-program are: (i) the upgrading of the institutional framework and the legal framework; regulatory; (ii) upgrading of clean energy exploitation and pricing schemes; (iii) assessment of training needs, definition and implementation of training strategies for national stakeholders.

5.6.1.6 P21 Program Indicators: Institutional Capacity Building

The table below summarizes the indicators to monitor the program "Institutional Capacity Building".

Tableau 15 : P21 Program Indicators: Institutional Capacity Building

Targets 2020	Reference (2018)	2020 Targets	2025 Targets	2030 Targets	Source
3. Number of national centers performing in the production of information		5	10	15	<ul style="list-style-type: none"> • National Communications ; • Ministry of Environment reports
4. Rate of increase of skills in the field of climate change		10%	20%	50%	<ul style="list-style-type: none"> • National Communications ; • Ministry of Environment reports
5. Rate of increase in the number of information systems in the field of climate change	N/A	10%	20%	50%	<ul style="list-style-type: none"> • National Communications ; • Ministry of Environment reports

Targets 2020	Reference (2018)	2020 Targets	2025 Targets	2030 Targets	Source
6. % of reforms implemented in the field of exploitation of pricing and clean energy	N/A	20	70%	100%	<ul style="list-style-type: none"> Annual reports of the national energy companies

5.6.2 P22 Program: Capacity Building of Stakeholders

A good stakeholder involvement in the implementation process of the CIP-SR requires the capacity building of the different stakeholder groups on the implementation of Multilateral Environmental Agreements (MEAs).) so that they can better contribute to their monitoring. This will require the development and implementation of multi-year training programs for national frameworks in international negotiation methods, as well as capacity building for media and civil society actors in the field of communication and advocacy.

The expected sectoral effects of the implementation of this program are: (i) National actors are well informed about Multilateral Environmental Agreements; (ii) National cadres are trained in international negotiation techniques; (iii) The capacity of media and civil society actors is strengthened in the area of climate change.

This program is broken down into four (4) subprogrammes: (i) Capacity building of different stakeholder groups in the implementation of climate change. implementation of Multilateral Environmental Agreements (MEAs); (ii) Development of multi-year training programs for national staff in the area of negotiations; (iii) Implementation of management training programs in the area of negotiations; iv) Capacity building of media and civil society actors in the field of communication and advocacy.

5.6.2.1 Sub-program: Strengthening the capacities of the different stakeholder groups in the implementation of the Multilateral Environmental Agreements (MEAs) »

The main actions of this sub-program are: (i) The organization of regional workshops training of trainers on the implementation of the Multilateral Environmental Agreements; (ii) The organization of national training workshops the implementation of Multilateral Environmental Agreements; (iii) Evaluation of training actions.

5.6.2.2 Subprogram: Development of multi-year national management training programs in the field of negotiations"

The main actions of this subprogramme are: (i) The recruitment of expertise in training on international negotiations; ii) the elaboration of a training plan for national managers on this theme; (iii) the implementation of the training plan; (iv) evaluation of training.

5.6.2.3 Sub-program: Implementation of management training programs in the field of negotiations

The major actions of this sub-program are: (i) The implementation of pedagogical tools; (ii) training implementation; (iii) training assessment.

5.6.2.4 Sub-program: Media and Civil society stakeholders' capacity building in the field of communication and advocacy

The major actions of this sub-program are: (i) Increasing media and civil society competencies in the field of climate change communication and advocacy; ii) Sensitization of local populations to climate change and their involvement in climate information analysis and decision-making.

5.6.2.5 P22 Program Indicators: Stakeholders Capacity Building

The following table summarizes the indicators for P22 program monitoring: "Stakeholders Capacity Building"

Table 16 : P22 Program Indicators: Stakeholders Capacity Building

Indicators	Reference (2018)	2020 Targets	2025 Targets	2030 Targets	Source
1 Development of a capacity building plan for the benefit of different stakeholder groups	N/A	-	-	-	<ul style="list-style-type: none"> • Training plan available in 2019
2 Number of regional workshops of trainers training on the implementation of the Multilateral Environmental Agreements	N/A	3	6	10	<ul style="list-style-type: none"> • National Communications ; • Ministry of Environment reports
3 Number of national executive training workshops in the field of international negotiations	N/A	6	16	26	<ul style="list-style-type: none"> • National Communications ; • Ministry of Environment reports
4 Number of training workshops for media and civil society stakeholders on climate change communication and advocacy by country	N/A	5	10	25	<ul style="list-style-type: none"> • National Communications ; • Ministry of Environment reports

5.6.3 P23 Program: Strengthening coordination at national and regional levels »

The objective of this program is to provide the necessary impetus for the coordination of actions, particularly at regional level through the JWG. This will include taking action to accredit States and facilitate their access to the Climate Funds. It is also a question of making available to the Joint Working Group (JWG) resources to ensure its coordination activities at the regional level (organization and financing of meetings, coordination and support activities of national structures), etc.). Finally, it will support advocacy activities for Basin Organizations and Subregional Integration Organizations with a view to facilitating the mobilization of resources needed for the implementation of their Climate Programs.

The expected sectorial effects the implementation of this program are: i) States' access to the Climate Funds is facilitated; (ii) Coordination at the regional level is ensured; (iii) Funding for Basin Organizations and Subregional Organizations is mobilized.

This program is broken down into four (4) subprograms: (i) Development and implementation of a State Capacity Building Program for to facilitate access to the Climate Funds; ii) Coordination by the Joint Working Group (JWG); iii) Advocacy for Basin Organizations; iv) Advocacy for Regional Organizations.

5.6.3.1 Sub-program "Development and Implementation of a State Capacity Building Program to Facilitate Access to Climate Funds"

The major actions of this subprogram are: (i) Recruitment of expertise in the field of accreditation mechanisms for the Climate Funds; (ii) Development of a capacity-building program for States in this area; (iii) Implementation of the capacity building program; iv) Evaluation of the results of the Program.

5.6.3.2 Sub-program: Coordination by the Joint Working Group (JWG)

The main actions of this sub-program are: i) Development of a multi-year program of work by the JWG, integrating the planning of the meetings, funding needs, etc. ; (ii) establishment of coordination mechanisms at the regional level; iii) Supervision and support to national structures in the field of coordination.

5.6.3.3 Sub-program: Advocacy for Basin Organizations

The main actions of this sub-program revolve around: i) Preparation, in relation with the heads of the organizations pools, an advocacy program with TFPs, in order to mobilize the resources needed to finance their Climate Investment Plan ii) The organization of advocacy missions to Technical and Financial Partners in favor of mobilization resources needed to finance the climate investment plans of the Basin Organizations; iii) Evaluation of the results of the advocacy missions.

5.6.3.4 Subprogram: Advocacy for Sub regional Organizations

The main actions of this subprogram revolve around: (i) Preparing, in collaboration with the heads of subregional organizations, an advocacy program with the TFPs, in order to mobilize the resources needed to finance their Climate Investment Plan ii) The organization of advocacy missions to the Technical and Financial Partners in favor of the mobilization of the resources needed to finance the Climate Investment Plans of the Organizations subregional; iii) Evaluation of the results of the advocacy missions.

5.6.3.5 P23 Program Indicators: Strengthening Coordination at National and Regional Levels

The following table summarizes the indicators for P23 program monitoring "Strengthening Coordination at National and Regional Levels"

Table 17 : P23 Program Indicators: Strengthening of coordination at national and regional levels

Indicators	Reference (2018)	2020 Targets	2025 Targets	2030 Targets	Source
1. Capacity building program for States to facilitate access to climate funds	-	-	-	-	• Program document developed and available in 2019
2. Regional and national workshops on States Capacity building to facilitate access to climate funds	-	20	3	3	• JWG Reports; • Rappports des Ministries in charge of Environment Reports
3. Periodic regional meetings of the JWG	N/A	6	15	15	• JWG Meetings record
4. Level of coverage of the financing needs of the climate investment plans of the basin organizations	N/A	20%	70%	100%	• Annual reports of basin organizations
5. Level of coverage of the financing needs of the climate investment plans of sub-regional organizations	N/A	20%	70%	100%	• Subregional organizations annual reports

5.7 Flagship Initiatives

Six regional structuring flagship initiatives have been identified as priority actions under the RPP (see table below).

Table 18 : Regional Structuring flagship Initiatives

AXES	SUBPROGRAMS	REGIONAL STRUCTURING FLAGSHIP INITIATIVES
Restoration and rehabilitation of degraded lands and ecosystems	SP 1.1 : Support to national land degradation neutrality plans and their extension to the region	Flagship initiative on the recovery of degraded lands (APGMV)
Integrated water resources management	SP 7.4 : Mobilization of water resources	Flagship initiative to support the integrated management of water resources in the major watersheds of the Sahel (Basin organizations)
Sustainable management of agricultural and pastoral systems	SP 12.2: Securing pastoral production systems	Pastoralism management initiative
	SP 13.1: Promotion of sustainable agricultural intensification models SP 13.2: Promotion of intensification models of animal and sustainable production	Initiative on the development of the chain of agricultural and forestry values through the diffusion of resilient technologies
Improvement of energy efficiency and access to clean energy	SP 16.3: Development of energy alternative to forest fuel (Biogas, biofuels, agro-forestry residues, etc.)	Promotion of alternative energies
Development of communication and advocacy on climate change	For memory	For memory
Capacity Building	SP 21.1. Capacity building for producing climate change information	Sahel climate change adaptation capacity building initiative
	SP 21.4 : Translation of the CIP SR into Operational projects (Operationalization of NDCs)	

VI. CHAPTER 6: ASSESSMENT OF CIP SR COSTS

6.1. Cost estimation standards

6.1.1 International standards allocation of climate finance

In the definition of parameters to guide the allocation of funding "climate", UNFCCC focuses on equity and efficiency considerations, with a clear predominance of notions of fairness probably because of the difficulties of assessing efficiency of adaptation actions¹⁸. The level of vulnerability of different countries is the factor that determines their needs in terms of adaptation, it is not part of the main criteria.

If the costs of mitigation of GHG emissions can be established with some objectivity in the different sectors, it does not hold the costs of adaptation to climate change, they are difficult to estimate, particularly because of the uncertain impacts of climate change at regional and local level and the heterogeneity of adaptation measures to implement¹⁹.

For developing countries, assessments (those of the World Bank and UNDP in particular, and those of the UNFCCC for agriculture, forestry and fishing) are based on the three financial flows received by developing countries: the official development assistance (ODA), foreign direct investment (FDI) and gross domestic investment (GDI), as these three flows relate to investments potentially sensitive to the effects of climate change. Evaluations attribute a percentage of risk in each of the streams which determines the amount of investment threatened by climate change then estimate at a flat rate cost of improving the climate resilience of these sensitive investments. In total, UNFCCC figure financial needs of developing countries for adaptation to changes in the agricultural sector (including forestry and fishing) to 14 billion per year. For its part, Africa Progress Panel²⁰ considers the need for Africa to 10.8 to 20.5 billion per year for adaptation to climate change and 13 to 26 billion a year for mitigation²¹.

6.1.2 Estimation bases CIP SR costs

For axis 1, funding of actions against climate change will rely more and foremost on the proposals made by NDC countries. However, following their analysis during the mission preparation of the CIP SR, the NDC had heterogeneous characteristics that do not facilitate the assessment of implementation costs.

Given the lack of information to evaluate the costs and areas proposed by countries for different adaptation and mitigation, it appeared to be necessary to make estimates based on information provided by some countries. So is it possible to set standards and cost units and estimate a percentage of the land area that can be involved in each program, subprogram and major actions proposed in the CIP-SR.

The costs of the CIP-SR programs are estimated from the following standards:

- The areas to be assigned to a subprogram is a calculated value derived from standards of information provided by some countries.

¹⁸ Romain Weikmans: Ethical dimensions of the allocation of international financing for climate change adaptation. Available on: <https://journals.openedition.org/vertigo/17677>

¹⁹ Anita Drouet : Financing adaptation to climate change. In *Études climat*, N°17. April 2009. Available on : https://www.caissedesdepots.fr/fileadmin/PDF/finance_carbone/etudes_climat/note17_financement_adaptation.pdf

²⁰ Non-profit foundation based in Switzerland and led by eminent personalities

²¹ Africa Progress Panel. Financing Climate-Resilient Development in Africa / A Post-Copenhagen Agenda for Action. June 2010. Available on http://base.afrique-gouvernance.net/docs/app-finance_for_climate_resilient_development_in_africa_fr.pdf

- The average cost of an action may be withheld from the average of the costs assigned to this action by several countries;
- Innovative actions such as the economy of the degradation or the green economy are not assessed from surface; they are considered experimental measures and capacity building. Restricted funds are rather provisions.
- The management of fragile ecosystems (wetlands, mangrove...) is an experimental character in action for which the limited and standard areas are affected for which average cost is comparable to that of land restoration.
- The managements of classified forests of large ecosystems and national parks are similar in affected areas and cost of development.
- The fight against deforestation and clearing and the fight against bush fires are related actions of development plans. In terms of cost, it is retained that 10% of development costs will be affected to them.
- The costs of programs and subprograms proposed for the "Environment and GRN" sector are standard for all countries. Similarly, the costs of the actions planned under the RPP are standard for all countries. These actions are preparatory measures for the implementation of the CIP.

For axis 2, the estimated cost of the CIP SR programs and subprograms, in terms of mitigation and adaptation was based on forecasts of NDC in this area, and the programs and projects identified by countries.

For axis 3, the estimated cost of CIP SR programs and subprograms, in terms of mitigation and adaptation was made on the basis of estimates made in the NDC of each country in the Sahel region. The forecast conditional and non-conditional actions were accumulated since the CIP must include the actions to be financed by the countries themselves and those they will submit to the financing of NDC. However, in some countries, the NDC lack details by sector and amounts sometimes globalized in mitigation and adaptation only. In this case we opted to affect the agricultural sector an amount corresponding to its place in the overall GDP of the country (case of Mauritania for mitigation and adaptation and Guinea for mitigation). In the case of Guinea, the estimation of financing for mitigation of GHG emissions in the agricultural sector is not given accurately. But of the energy sector being specified (6.5 billion dollars), a calculation was made to estimate the needs in agriculture by applying a rule of proportionality between energy (62% of GHG emissions) and Agriculture (14%).

For other countries, data on funding to mobilize missing or inaccurate (Cape Verde, Djibouti, Ethiopia, Gambia, Nigeria and Sudan).

Mitigation and adaptation actions foreseen in the CDP therefore, constitute the backbone of the CIP SR agropastoral sector. They are complemented, according to the results of the sectoral diagnostic posed by other actions at national level (based on the projects that we know of) or more general to all countries.

But in terms of funding needs expressed by countries, it should emphasize a great disparity between them. Given this disparity, funding amounts more balanced per country were suggested by totalling the amounts provided by the countries (10 out of 17 countries for which data are available), and then by comparing that amount to the population. Ignoring the countries for which figures are available (Cape Verde, Djibouti, Ethiopia, Gambia, Nigeria, Sudan), investment ratios obtained in the agricultural sector are planned such as (in dollars per capita on whole period): Mali: 1,168; Benin: 940; Eritrea: 781; Chad: 773; Mauritania: 560; Senegal: 325; Cote d'Ivoire: 168; Burkina Faso: 86; Guinea: 27; Cameroon: 21; Niger: 19.; an average of 387 dollars per capita throughout the period of the CIP SR. We opted for a level of investment of \$ 750 per capita for countries with a ratio below this figure and kept the amounts

for the countries being above this value. This recalculation increased the amount of investments in the farming area of 60.764 to 392.670 billion dollars.

The situation is also very trench between the country's investment allocation mitigation and adaptation. Most countries spend over 60% actions for adaptation. It is worth mentioning the case of Cameroon, Mali and Guinea that spent respectively 2.1%, 4.9% and 18.9% for adaptation. Given the interdependence of mitigation and adaptation actions in the agricultural sector, we opted to allocate 60% of funding for adaptation actions and 40% to mitigation actions of GHG emissions, consistently in all countries, with a distribution of substantially equal funding between the five proposed subprograms.

For axis 4, the financial evaluation methodology of investment programs in energy infrastructure (investment prospectus) is the same as that used for "costing" of SE4ALL financing gaps of countries in the Sahel region.

The indicative costs are determined by reference either to the costs already established for forecasts of already developed investments (investment program in progress and / or perspective) or the standard unit cost indicators for energy investment projects for countries of the same economic profile.

These indicative costs established in current value (base year 2018) are likely to evolve significantly more or less following the actual assessments (feasibility studies and business plans) programs and thematic and sectoral projects implementation.

For axes 5 and 6 with transversal character, the estimate was made on the basis of the usual noms in the matter

6.2. RPP cost assessment and the overall CIP

The estimated costs of CIP-SR programs consider the existence of other regional initiatives, to which the CIP-SR does not replace but is in synergy with them. These include the following initiatives:

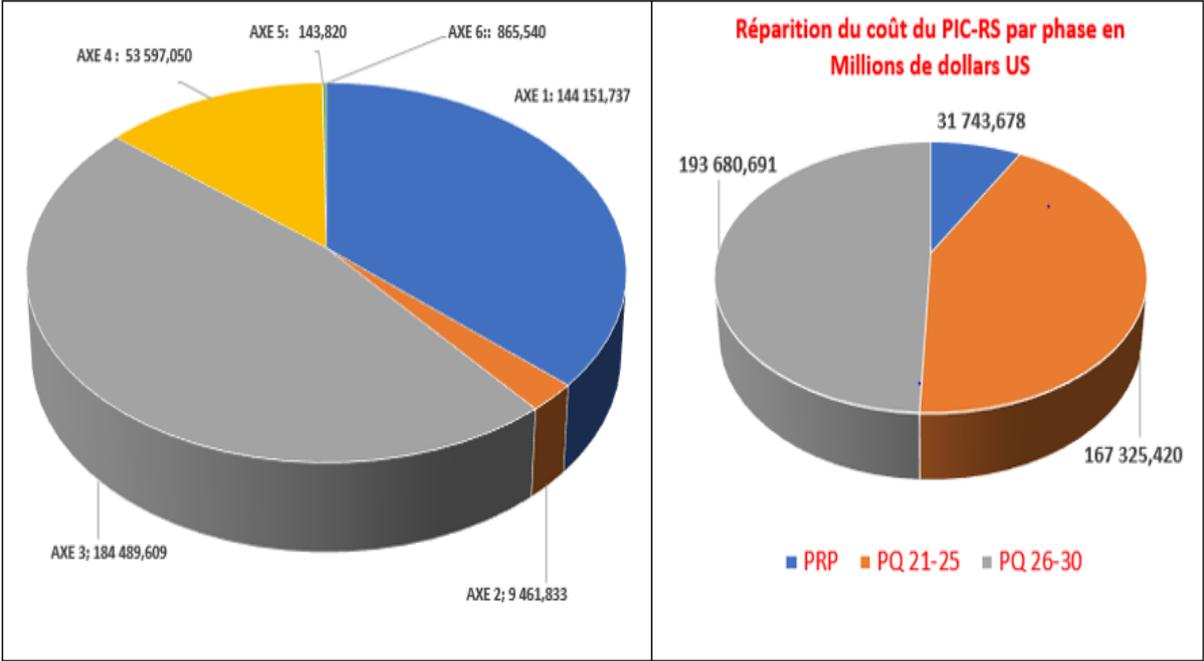
- The Development Plan and adaptation to climate change developed by Lake Chad LCBC amounting to 916 million euros;
- The Strategic Action Program of ABV in the amount of 228.2 million US dollars;
- The investment climate plan of the ABN in the amount of 3.1 billion US dollars;
- The Strategic Program for reducing vulnerability and adaptation to climate change in West Africa for \$ 675 million US dollars.

The overall cost of the CIP SR 2018-2030 was estimated at four hundred and thirty-nine billion four hundred eighty-eight million four hundred thirty-five thousand (439 488 435 000) US dollars, distributed as follows:

- RPP-SR (2018-2020): Fifty-nine billion seven hundred eighty-nine million four hundred twenty-nine thousand (59 789 429 000) US dollars;
- PQ 2021-2024: One hundred seventy-five billion two hundred and fifty-nine million two one hundred ninety thousand (175 259 290 000) US dollars;
- PQ 2025-2030: Two hundred and four billion four hundred and thirty-nine million one hundred and fifteen thousand (204 439 715 000) US dollars.

The figure below summarizes the breakdown by axis and by phase.

Figure 2 : CIP SR breakdown by axis and by phase



The below table 25 presents a synoptic view of the overall RPP and CIP-SR Costs by axis and by program.

Table 19: Synoptic view of the costs of the RPP and CIP SR per axis, program and subprogram

AXES	PROGRAMS	SUBPROGRAMS	RPP PER YEAR			RPP TOTAL	PQ 21-25	PQ 26-30	CIP-SR TOTAL
			2018	2019	2020				
A1 : Restoration and rehabilitation of degraded lands and ecosystems	P1 : Support for national and regional land restoration programs	SP 1.1 : Framework Support for National Land Degradation Neutrality Plans and their Extension to the Region	0,500	8,500	9,000	18,000	19 384,944	19 825,721	39 228,665
		SP 1.2 : Development of the "Land Degradation Economics" and the Green Economy	0,500	8,500	9,000	18,000	117,250	125,250	260,500
		P1 Program Total	1,000	17,000	18,000	36,000	19 502,194	19 950,971	39 489,165
	P2 : Integrated management of critical sensitive ecosystems of importance for strengthening resilience	SP 2.1 : Wetland Protection and Management of Significant the Ramsar Convention	0,500	8,500	9,000	18,000	2 219,375	2 352,875	4 590,250
		SP 2.2 Reconstitution and protection of fragile ecosystems of the Sahel Region (mangrove stands, tiger bush, basins and oases)	0,500	8,500	9,000	18,000	2 219,375	2 352,875	4 590,250
		SP 2.3 : Protection of coastal areas	0,500	8,500	9,000	18,000	2 252,500	2 386,000	4 656,500
		P2 Program Total	1,500	25,500	27,000	54,000	6 691,250	7 091,750	13 837,000
	P3 : Support for the recovery of important natural ecosystems for carbon sequestration	SP 3.1 : Support for the rehabilitation of classified forests and other important natural ecosystems	0,500	8,500	9,000	18,000	17 249,135	17 662,290	34 929,425
		SP 3.2 : Promotion the creation and management of protected areas and national parks	0,500	8,500	9,000	18,000	17 249,135	17 662,290	34 929,425
		SP 3.3 : Fight against deforestation (clearing) and bush fires	0,500	8,500	9,000	18,000	1 724,914	1 767,129	3 510,042
		P3 Program Total	1,500	25,500	27,000	54,000	36 223,184	37 091,708	73 368,892
	P4 : Promotion of reforestation plans in Carbon Sequestration	SP 4.1 : Development and implementation of a State afforestation program in the countries of the Sahel Region	0,500	8,500	9,000	18,000	8 504,180	8 794,750	17 316,930
		SP 4.2 : Promotion of operations " village Wood" in local communities and private plantations	0,500	8,500	9,000	18,000	58,625	63,125	139,750

AXES	PROGRAMS	SUBPROGRAMS	RPP PER YEAR			RPP TOTAL	PQ 21-25	PQ 26-30	CIP-SR TOTAL
			2018	2019	2020				
		P4 Program Total	1,000	17,000	18,000	36,000	8 562,805	8 857,875	17 456,680
		AXIS 1 TOTAL	5,000	85,000	90,000	180,000	70 979,433	72 992,304	144 151,737
A2 : Integrated management of water resources	P5 : Support to the reinforcement of the knowledge of the field of water Research and development on water	SP 5.1 : Research and development on water	0,653	43,897	15,544	60,094	6,731	6,476	73,301
		SP 5.2 : Installation of databases on urban and village water works in the States	1,650	1 000,000	0,000	1 001,650	0,000	0,000	1 001,650
		SP 5.3 : Establishment of databases on hydrogeology and the characteristics of underground resources	0,000	5,785	0,000	5,785	0,000	0,000	5,785
		P5 Program Total	2,303	1 049,683	15,544	1 067,529	6,731	6,476	1 080,736
	P6 : Observation and monitoring of surface and underground water resources	SP 6.1 : Support the popularization of meteorological results to States	0,000	2,200	0,000	2,200	0,000	0,000	2,200
		SP 6.2: Support for the installation and strengthening of water observations in watershed countries.	0,000	4,005	4,800	8,805	5,800	1,500	16,105
		SP 6.3 : Support for the operationalization of weather forecast models in the States	0,000	1,946	22,681	24,627	1,202	7,300	33,129
		P6 Program Total	0,000	8,151	27,481	35,632	7,002	8,800	51,433
	P7: Preservation and management of water resources.	SP 7.1 : Securing and protecting water resources against marine intrusion and invsion of wild plants	4,40	8,40	13,02	25,821	151,164	50,000	226,985
		SP 7.2 : NP IMWR Operationalization	0,00	6,78	133,76	140,539	2,000	0,002	142,541
		SP 7.3 : Preservation against floods and protection of banks and shorelines	11,72	111,97	115,15	238,835	888,149	621,390	1 748,374
		SP 7.4 : Water resources Mobilization	1,31	10,43	102,91	114,648	77,170	18,490	210,308
		P7 Program Total	17,430	137,575	364,838	519,842	1 118,483	689,882	2 328,208
	P8 : Village and urban hydraulic	SP 8.1 : Access of people to drinking water and sanitation	0,720	94,653	89,548	184,922	315,650	457,990	958,562
		SP 8.2 Desalination of seawater	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 8.3: Development of village water supply and strengthening of resilience against climate change in rural areas.	17,963	17,963	19,927	55,853	150,000	0,000	205,853
		SP 8.4: Waste management	0,000	0,000	15,000	15,000	0,000	0,000	0,000
		SP 8.5: Wastewater management	0,000	25,000	0,000	25,000	0,000	0,000	0,000
		P8 Program Total	18,683	137,617	124,475	280,775	465,650	457,990	1 164,415
	P9 : Pastoral and Agricultural hydraulic	SP 9.1 : Ponds and wells for livestock	42,497	38,922	103,777	185,196	4,020	160,000	349,217
SP 9.2 : Rehabilitation or construction of dams or water reservoirs for hydroagricultural purposes		27,858	572,353	341,424	941,635	2 347,416	1 182,659	4 471,710	

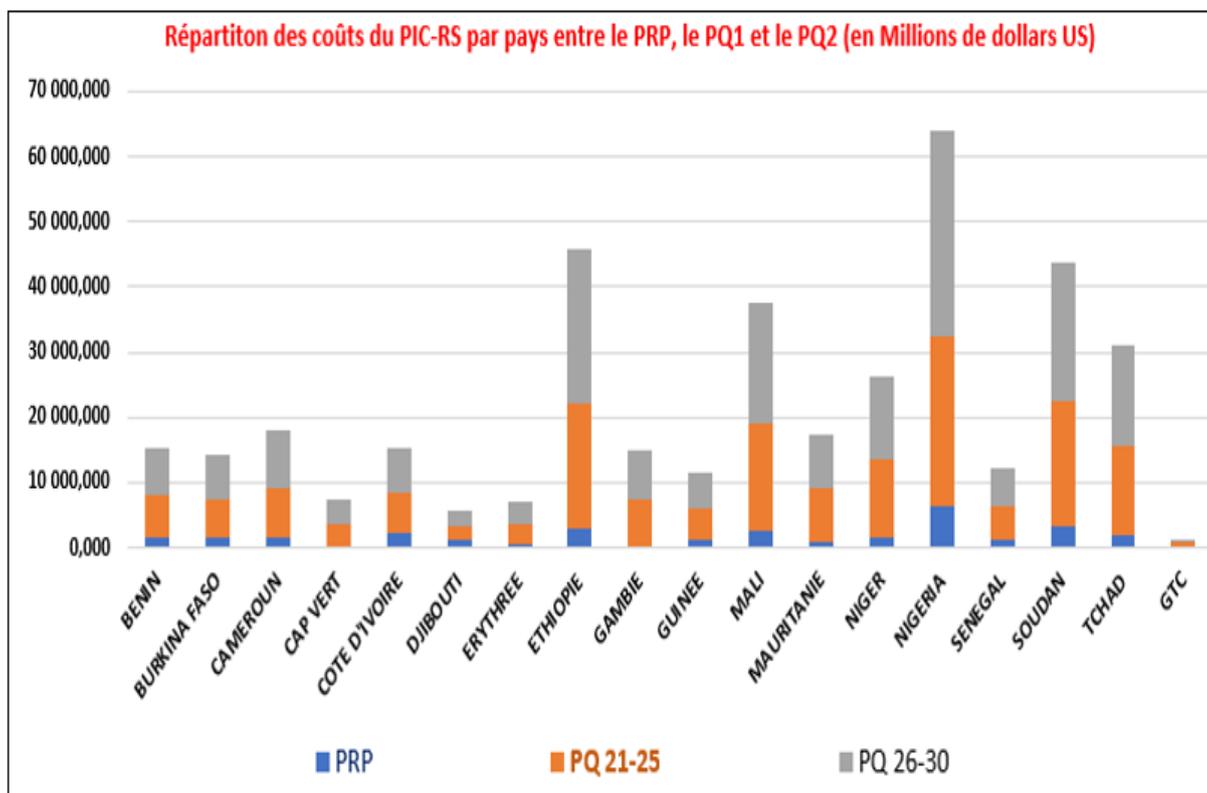
AXES	PROGRAMS	SUBPROGRAMS	RPP PER YEAR			RPP TOTAL	PQ 21-25	PQ 26-30	CIP-SR TOTAL
			2018	2019	2020				
		P9 Program Total	70,355	611,276	445,201	1 126,832	2 351,436	1 342,659	4 820,927
	P10 : Cooperation for sharing and managing resources	SP 10.1 : Transboundary resources management.	0,090	0,000	1,317	1,407	3,359	0,000	4,766
		SP 10.2: Charter on Water between basin States.	2,200	5,500	0,348	8,048	3,300	0,000	11,348
		P10 Program Total	2,290	5,500	1,664	9,454	6,659	0,000	16,114
		AXIS 2 TOTAL	111,061	1 949,800	979,203	3 040,064	3 955,962	2 505,807	9 461,833
A3: Sustainable management of Agricultural and pastoral systems	P11: Promotion of low-carbon agricultural production systems	SP 11.1: Sustainable management of soils fertility	89,715	850,705	872,371	1 812,791	7 039,801	9 346,025	18 198,616
		SP 11.2: Sustainable management of irrigation systems	89,715	850,705	872,371	1 812,791	7 039,801	9 346,025	18 198,616
		P11 Program Total	179,430	1 701,409	1 744,742	3 625,581	14 079,601	18 692,050	36 397,232
	P12: Promotion of low-carbon livestock production systems	SP 12.1: Promotion of integrated systems agriculture-breed	89,715	841,186	862,852	1 793,753	7 052,301	9 358,525	18 204,578
		SP 12,2: Securing pastoral production system	89,715	841,186	862,852	1 793,753	7 052,301	9 358,525	18 204,578
		P12 Program Total	179,430	1 682,371	1 725,705	3 587,506	14 104,601	18 717,050	36 409,157
	P13: Promotion of models for intensification of sustainable agricultural and animal production	SP 13.1: Promotion of sustainable agricultural intensification models	88,715	841,186	862,852	1 792,753	7 235,341	9 556,135	18 584,228
		SP 13.2: Promotion of sustainable livestock production intensification models	89,715	841,186	862,852	1 793,753	7 249,911	9 556,135	18 599,798
		P13 Program Total	178,430	1 682,371	1 725,705	3 586,506	14 485,251	19 112,270	37 184,027
	P14: Restoration of Agricultural and pastoral lands	SP 14.1: Restoration of Agricultural lands	89,715	841,186	862,852	1 793,753	7 262,411	9 568,635	18 624,798
		SP 14.2: Restoration of rangelands	89,715	841,186	862,852	1 793,753	7 262,411	9 568,635	18 624,798
		P14 Program Total	179,430	1 682,371	1 725,705	3 587,506	14 524,821	19 137,270	37 249,597
	P15: Agricultural and pastoral risks management	SP 15.1: Promotion of insurance on agricultural and livestock productions	89,715	841,186	862,852	1 793,753	7 262,411	9 568,635	18 624,798
		SP 15.2: Improving knowledge and risk management related to agricultural and livestock production	89,715	841,186	862,852	1 793,753	7 262,411	9 568,635	18 624,798
		P15 Program Total	179,430	1 682,371	1 725,705	3 587,506	14 524,821	19 137,270	37 249,597
		AXIS 3 TOTAL	896,149	8 430,894	8 647,561	17 974,604	71 719,096	94 795,909	184 489,609
Axe 4 : Improving energy efficiency and access to modern energy services	P16 : Energy efficiency	SP 16.1 : Promotion of improved fireplaces with wood and charcoal	40,170	45,170	49,670	135,010	145,200	142,290	422,500
		SP 16.2 : Promotion of improved wood carbonization technologies and charcoal production	15,190	16,400	19,660	51,250	45,330	38,070	134,650
		SP 16.3 : Development of alternative energy sectors to forest fuel (biogas, biofuels, agro-forestry residues, etc.)	0,000	0,000	0,000	0,000	130,800	218,400	349,200
		SP 16.4: Technological upgrading of energy-consuming thermal power plants.	0,000	0,000	0,000	0,000	2 177,000	2 189,500	4 366,500

AXES	PROGRAMS	SUBPROGRAMS	RPP PER YEAR			RPP TOTAL	PQ 21-25	PQ 26-30	CIP-SR TOTAL	
			2018	2019	2020					
		SP 16.5 : Technological upgrading of electricity transmission and distribution networks	0,000	0,000	0,000	0,000	1 277,300	1 256,500	2 533,800	
		SP 16.6 : Promotion of low consumption lamps (LCL) and public lighting through solar streetlights	332,000	436,000	577,000	1 345,000	1 371,000	1 485,000	4 201,000	
		P16 Program Total	387,360	497,570	646,330	1 531,260	5 146,630	5 329,760	12 007,650	
	P17 : Improving energy mix	SP 17.1 : Standardization, Certifications and Optimization of Conventional energy demand	0,000	0,000	0,000	0,000	266,500	187,500	454,000	
		SP 17.2 : Valorization of hydropower potential	797,000	946,000	1 449,000	3 192,000	4 450,000	4 480,000	12 122,000	
		SP 17.3 : Promotion and accelerated development of other forms of renewable energy for electrification	524,000	785,000	1 282,000	2 591,000	6 564,000	8 481,000	17 636,000	
		P17 Program Total	1 321,000	1 731,000	2 731,000	5 783,000	11 280,500	13 148,500	30 212,000	
	P18 : Improving the access to energy	SP 18.1 : Promotion and development of Sustainable rural electrification	424,000	456,000	735,000	1 615,000	2 416,000	2 884,000	6 915,000	
		SP 18.1 : Promotion of domestic butante fuel alternative for wood energy	266,000	345,000	513,000	1 124,000	1 537,000	1 697,000	4 358,000	
		SP 18.3 : Multifunctional access Platform to energy and driving forces	5,700	7,000	14,800	27,500	38,000	38,900	104,400	
		P18 Program Total	695,700	808,000	1 262,800	2 766,500	3 991,000	4 619,900	11 377,400	
	AXIS 4 TOTAL			2 404,060	3 036,570	4 640,130	10 080,760	20 418,130	23 098,160	53 597,050
	A5: Development of communication and advocacy on climate change	P19: Development of a regional communication strategy on climate change and resilience.	SP 19.1 : Development and implementation of a regional communication strategy	0,640	0,000	0,040	0,680	0,000	0,040	0,720
SP 19.2 : Creation and animation of a regional portal "Climate change and resilience in the sahel region"			5,100	5,100	5,700	15,900	25,500	27,900	69,300	
P19 Program Total			5,740	5,100	5,740	16,580	25,500	27,940	70,020	
P20 : Advocacy implementation		SP 20.1: Launch of a campaign "The Sahel, It's now!"	0,250	0,000	0,000	0,250	0,000	0,000	0,250	
		SP 20.2 : Regional excellence Gala yearly organized	5,100	5,100	5,700	15,900	25,500	27,900	69,300	
		SP 20.3 : Creation et animation of a regional youth movement "Sahel Volunteers"	0,000	1,000	0,750	1,750	1,250	1,250	4,250	
		P20 Program Total	5,350	6,100	6,450	17,900	26,750	29,150	73,800	
AXIS 5 TOTAL			11,090	11,200	12,190	34,480	52,250	57,090	143,820	
A6: Capacity Building	P21 : Institutional capacity building	SP 21.1. Capacity building of information production on climate change	0,500	8,500	9,000	18,000	34,000	37,000	89,000	
		SP 21.2: Renforcement des capacités des acteurs à l'utilisation de l'information sur les changements climatiques	1,500	25,500	27,000	54,000	68,000	75,000	197,000	

AXES	PROGRAMS	SUBPROGRAMS	RPP PER YEAR			RPP TOTAL	PQ 21-25	PQ 26-30	CIP-SR TOTAL
			2018	2019	2020				
		SP 21.3 : Capacity building of Research and development structures	0,050	0,050	0,050	0,150	0,050	0,050	0,050
		SP 21.4 : CIP-SR Translation into operational projects	1,700	1,700	1,900	5,300	0,000	0,300	5,600
		SP 21.5 Institutional capacity building in the field of energy	51,000	82,870	100,450	234,320	0,000	6,870	241,190
		P21 Program Total	54,750	118,620	138,400	311,770	102,050	119,220	532,840
	P22: Stakeholders Capacity Building	SP 22.1 : Capacity building of different stakeholders' groups in the implementation of the Multilateral Agreements on Environment (MAE)	0,750	8,500	9,000	18,250	51,000	55,000	124,250
		SP 22.2 : Development of multiannual training programs for national staff in the field of negotiations	0,100	0,100	0,100	0,300	0,000	0,000	0,300
		SP 22.3: Implementation of management training programs in the field of negotiations	7,000	7,000	9,000	23,000	0,000	3,000	26,000
		SP 22.4: Capacity building of media and civil society stakeholders in the field of communication and advocacy	3,750	8,500	9,200	21,450	42,500	46,200	110,150
		P22 Program Total	11,600	24,100	27,300	63,000	93,500	104,200	260,700
	P23: Strengthening of coordination at national and regional levels	SP23.1 : Development and implementation of a State capacity building program to facilitate access to the Climate Fund	17,000	17,000	19,000	53,000	0,000	3,000	56,000
		SP 23.2 Coordination by the Joint Working Group (JWG)	1,000	1,000	1,000	3,000	5,000	5,000	13,000
		SP 23.3 : Advocacy for basin organizations	0,500	0,500	0,500	1,500	0,000	0,000	1,500
		SP 23.4 : Advocacy for regional organizations	0,500	0,500	0,500	1,500	0,000	0,000	1,500
		P23 Program Total	19,000	19,000	21,000	59,000	5,000	8,000	72,000
		AXIS 6 TOTAL	85,350	161,720	186,700	433,770	200,550	231,420	865,540
	TOTAUX		3 512,710	13 675,185	14 555,784	31 743,678	167 325,420	193 680,691	392 709,590

CIP-RS costs per country are highly heterogeneous due to differences in NDCs and different demographic weights: Nigeria, Ethiopia, Mali, Sudan, and Chad rank well ahead of other countries (see figure below).

Figure 3: CIP-SR Costs by Country



Annex 1 presents a synoptic view of the costs of the RPP and CIP-SR by country

Annexes 2 to 18 presents, for each country, the costs of the RPP and CIP-SR by axis, program and sub-program.

VII. RESOURCE MOBILIZATION STRATEGY, INSTITUTIONAL ARRANGEMENT AND MONITORING AND EVALUATION PLAN FOR THE IMPLEMENTATION OF THE CIP-SR

Three separate volumes are devoted to the following themes:

- i. Resources mobilization strategy
- ii. Institutional implementation mechanism
- iii. Monitoring and evaluation plan for the implementation of the ICPRS.

The resources mobilization strategy will be based in particular on a plan for the communication and advocacy around the following themes: (i) Development of a communication and advocacy strategy on climate change; ii) Capacity building of communication and advocacy stakeholders.

The institutional mechanism for implementation is dealt with in Volume 4 of the CIP-SR which also deals with the various stakeholders that contribute to the implementation of the Plan. It focuses on the following areas: (i) the presentation of the institutional mechanism for implementation through its political organizations and technical coordination organizations at different levels; ii) identification and analysis of the role of stakeholders (States, JWG-RC, Subregional Organizations, National Focal Points of the JWG, Territorial Communities, Private Sector, TFPs, Civil Society) in the operation of the mechanism.

Monitoring and evaluation plan for the implementation of the CIP-SR is addressed in Volume 4 which focuses on the following areas: (i) the description of the monitoring and evaluation system; ii) the framework and mechanism for implementation of the CIP-SR, with identification of implementation instruments, stakeholders and their role in implementation; (iii) the institutional framework, its mission, the monitoring of program implementation (monitoring of program implementation, monitoring of results, mid-term and final evaluations). See Annex 19.

VIII. RISK ANALYSIS

Successful implementation of the CIP-SR could be affected by the occurrence of several endogenous or exogenous risk factors. These factors include: (i) the sociopolitical instability of states; (ii) weak state leadership; (iii) weak domestic resource mobilization by States; (iv) the persistence of the capacity deficit; (v) an unfavorable sub-regional and / or international situation; and (vi) climate hazards and humanitarian emergencies.

8.1 Socio-political instability of the states

The countries of the Sahel region are generally confronted with internal antagonisms and serious socio-political troubles against the backdrop of violence. The pre- and post-electoral periods are often made up of socio-political tensions, with the result that ethnic rivalries are awakened, the economic activities are slowed down and disrupted.

In addition, there is growing evidence of insecurity linked to extremism, terrorism and trafficking of all kinds (drug trafficking, trafficking in human beings, etc.) These tensions, if they persist, are likely to compromise the realization of the CIP-SR.

This risk could be mitigated by: i) the clear will of socio-political actors to develop consensus, to respect the laws and regulations of the countries, the political and social agreements, as well as to maintain an environment of peace and harmony; (ii) strengthening the democratic process, through social dialog, consultation at all levels of decision-making; (iii) reducing socio-economic inequalities and regional disparities through improved access to basic social services, better redistribution of wealth, strengthening the fight against impunity and corruption, and strengthening the authority of the state; (iv) pooling the efforts of States to fight together against religious extremism, terrorism and trafficking of all kinds.

8.2 Weak mobilization of domestic resources of the States

The financing of the public investment programs of the Sahel countries depends for the most part on external resources, and no country has so far been able to reverse this trend, which could, moreover, persist over the next few years in the absence of an appropriate strategy.

The responses to mitigate this risk include: (i) the continuation of public finance reform programs through increased domestic resource mobilization; (ii) state-level development of the Public-Private Partnership; (iii) the implementation of more incentive measures to stimulate national savings; (iv) the creation of innovative mechanisms for mobilizing alternative resources for official development assistance; and (v) the mobilization of diaspora resources and their transfers to productive, growth-generating and income-generating investments.

8.3 Persistence of capacity deficit

A significant capacity gap (formulation, implementation and evaluation of policies and strategy, budgeting, etc.) exists in most countries of the Sahel Region. This situation is likely to thwart a successful implementation of the CIP-SR. Therefore, an important integrated and multi-annual capacity building program should accompany the implementation of the CIP-SR.

8.4 Unfavorable sub regional and international conjunctures

The sub-regional and international contexts could affect the implementation of the CIP-SR. In fact, the countries of the Sahel region belong to different subregional, regional and international organizations (UEMOA, ECOWAS, CILSS, IGAD, UN-AU, etc.), whose developments may have repercussions on the CIP-SR at the international level, fiscal strains in donor countries and low levels of foreign direct investment are also major challenges.

Among the mitigating factors of this risk are: (i) improving the external relations of States; (ii) the promotion of peace and security at the subregional and regional levels; (iii) strengthening the resilience of countries to exogenous shocks (lower commodity prices, reduced flows of development assistance); and (iv) strengthening the fight against illegal migration.

8.5 Climate hazards and humanitarian emergencies

Countries in the Sahel region have a low capacity for adaptation and resilience to the consequences of climate change. Also, climatic hazards and humanitarian emergencies constitute major risks that could permanently jeopardize the implementation of the CIP-SR.

ANNEXES

Annex 1 : Synoptic View of the RPP and the CIP-SR per Country (in US Millions dollars)

COUNTRIES	PHASES	AMOUNT	% ABOUT THE CIP-SR
BENIN	RPP	1 698,854	0,43%
	PQ 21-25	6 256,719	1,59%
	PQ 26-30	7 208,769	1,84%
	CIP-SR	15 164,341	3,86%
BURKINA FASO	RPP	1 475,126	0,38%
	PQ 21-25	5 962,490	1,52%
	PQ 26-30	6 853,276	1,75%
	CIP-SR	14 290,892	3,64%
CAMEROON	RPP	1 751,084	0,45%
	PQ 21-25	7 206,137	1,83%
	PQ 26-30	9 084,767	2,31%
	CIP-SR	18 041,988	4,59%
CAPE VERDE	RPP	118,361	0,03%
	PQ 21-25	3 687,370	0,94%
	PQ 26-30	3 648,446	0,93%
	CIP-SR	7 454,177	1,90%
COTE D'IVOIRE	RPP	2 146,778	0,55%
	PQ 21-25	6 344,126	1,62%
	PQ 26-30	6 860,962	1,75%
	CIP-SR	15 351,866	3,91%
DJIBOUTI	RPP	1 215,404	0,31%
	PQ 21-25	2 236,168	0,57%
	PQ 26-30	2 371,171	0,60%
	CIP-SR	5 822,743	1,48%
ERYTHREA	RPP	473,685	0,12%
	PQ 21-25	3 106,052	0,79%
	PQ 26-30	3 625,352	0,92%
	CIP-SR	7 205,088	1,83%
ETHIOPIA	RPP	2 930,740	0,75%
	PQ 21-25	19 224,658	4,90%
	PQ 26-30	23 694,011	6,03%
	CIP-SR	45 849,410	11,68%

COUNTRIES	PHASES	AMOUNT	% ABOUT THE CIP-SR
THE GAMBIA	RPP	318,808	0,08%
	PQ 21-25	7 199,380	1,83%
	PQ 26-30	7 356,460	1,87%
	CIP-SR	14 874,648	3,79%
GUINEA	RPP	1 307,146	0,33%
	PQ 21-25	4 725,953	1,20%
	PQ 26-30	5 522,008	1,41%
	CIP-SR	11 555,107	2,94%
MALI	RPP	2 537,440	0,65%
	PQ 21-25	16 493,906	4,20%
	PQ 26-30	18 654,846	4,75%
	CIP-SR	37 686,191	9,60%
MAURITANIA	RPP	766,810	0,20%
	PQ 21-25	8 277,006	2,11%
	PQ 26-30	8 332,596	2,12%
	CIP-SR	17 376,411	4,42%
NIGER	RPP	1 564,180	0,40%
	PQ 21-25	12 064,708	3,07%
	PQ 26-30	12 714,374	3,24%
	CIP-SR	26 343,262	6,71%
NIGERIA	RPP	6 511,338	1,66%
	PQ 21-25	25 866,900	6,59%
	PQ 26-30	31 422,232	8,00%
	CIP-SR	63 800,471	16,25%
SENEGAL	RPP	1 358,481	0,35%
	PQ 21-25	4 992,299	1,27%
	PQ 26-30	5 929,948	1,51%
	CIP-SR	12 280,728	3,13%
SUDAN	RPP	3 375,720	0,86%
	PQ 21-25	19 197,207	4,89%

COUNTRIES	PHASES	AMOUNT	% ABOUT THE CIP-SR
	PQ 26-30	21 131,097	5,38%
	CIP-SR	43 704,025	11,13%
CHAD	RPP	1 787,756	0,46%
	PQ 21-25	13 790,050	3,51%
	PQ 26-30	15 586,950	3,97%
	CIP-SR	31 164,756	7,94%
JWG COORDINATION	RPP	264,670	0,07%
	PQ 21-25	565,842	0,14%
	PQ 26-30	345,740	0,09%
	CIP-SR	1 176,252	0,30%
RPP GLOBAL		31 743,678	8,08%
PQ 21-25		167 325,420	42,61%
PQ 26-30		193 680,691	49,32%
CIP-SR TOTAL		392 709,590	100,00%

Appendix 1: RPP and CIP SR of Benin (in US \$ million)

AXIS	PROGRAMS	SUBPROGRAMS	Benin							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
A1: Restoration and rehabilitation of degraded lands and sensitive ecosystems	P1: Support to national and regional programs for land restoration	SP 1.1: Support to National Plans for land degradation neutrality and Their extension to the Region	0,000	0,500	0,500	1,000	205282	205282	411,565	
		SP 1.2: Support for the restoration of agricultural land in AIC's framework	0,000	0,500	0,500	1,000	11,476	11,476	23953	
		SP 1.3: Development of "Economics of Land Degradation" and the Green Economy	0,000	0,500	0,500	1,000	7,000	7,000	15,000	
		P1 Program Total	0,000	1,500	1,500	3,000	223,759	223,759	450,517	
	P2: Integrated management of sensitive ecosystems significant for building resilience	SP 2.1: Protection and development of humid areas important for Ramsar's Convention	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		SP 2.2: Reconstruction and protection of delicate ecosystems in Sahel's Region (mangrove stands, tiger bush, basins and oases)	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		SP 2.3: Coastal areas Protection	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		P2 Program Total	0,000	1,000	1,000	3,000	265,000	265,000	798,000	
			AXIS 1 TOTAL	0,000	2,500	2,500	6,000	488759	488759	1 248 517
	A2: Carbon sequestration capacities reinforcement	P3: Reconstruction Support of major natural ecosystems for carbon sequestration	SP 3.1: Support of the rehabilitation of classified forests and other significant natural ecosystems	0,000	0,500	0,500	1,000	192,389	192,389	385,777
SP 3.2: Promoting the establishment and management of protected areas and national parks			0,000	0,500	0,500	1,000	192,389	192,389	385,777	
SP 3.3: Fight against deforestation (land clearing) and bushfires			0,000	0,500	0,500	1,000	19,239	19,239	39,478	
P3 Program Total			0,000	1,000	1,000	3,000	384,777	384,777	811,033	
P4: Reforestation plan promotion in the context of carbon sequestration		SP 4.1: Development and implementation of a state program of reforestation in the countries of the Sahel Region	0,000	0,500	0,500	1,000	525,000	525,000	1 051 000	
		SP 4.2: Promotion of operations "Village wood" in local communities and private plantations	0,000	0,500	0,500	1,000	3,500	3,500	8,000	
		P4 Program Total	0,000	1,000	1,000	2,000	528,500	528,500	1, 059,000	
		AXIS 2 TOTAL	0,000	2,000	2,000	5,000	913,277	913,277	1, 870,033	
A3: knowledge Improvement and conservation / water resources management	P5: Support for Strengthening the knowledge of water field	SP 5.1: Research and development on water	0,000	0,000	0,000	0,000	0,000	0,000	0,000	
		SP 5.2: Establishment of databases on urban and village water works in the states	0,000	0,000	0,000	0,000	0,000	0,000	0,000	
		SP 5.3: Setting up databases on hydrogeology and characteristics of groundwater resources.	0,000	0,060	0,000	0,060	0,000	0,000	0,060	
		P5 Program Total	0,000	0,060	0,000	0,060	0,000	0,000	0,060	
	P6: observation and monitoring of Surface water and	SP 6.1: Support to the dissemination of States meteorological observations results	0,000	0,000	0,000	0,000	0,000	0,000	0,000	

AXIS	PROGRAMS	SUBPROGRAMS	Benin							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
	groundwater resources	SP 6.2: Installation and Support for the Strengthening of water observatories in countries watersheds.	0,000	0,000	0,000	0,000	0,000	0,000	0,000	
		SP 6.3: Support to the operationalization of the weather models in the States	0,000	1,946	1,946	3,892	0,000	0,000	3,892	
		P6 Total Program	0,000	1,946	1,946	3,892	0,000	0,000	3,892	
	P7: preservation and water resource management.	SP 7.1: Support for the results extension of States meteorological observation	0,000	0,000	0,000	0,000	0,000	0,000	0,000	
		SP 7.2: Installation and Strengthening Support for the water observatories in countries watersheds.	0,000	1,910	1,910	3,820	0,000	0,000	3,820	
		SP 7.3: Support for the operationalization of weather forecast models in the States	0,000	35895	35895	71790	324,440	226,845	623,075	
		SP 7.4: Water Resources Mobilization	0,000	0,000	0,000	0,000	0,000	0,000	0,000	
		P7 Program Total	0,000	37,805	37,805	75,610	324,440	226,845	626,895	
	AXIS 3 TOTAL			0,000	39,811	39,751	79,562	324,440	226,845	630,847
	A4: Access to drinking water and productive uses	P8: Urban and Rural Water Supply	SP 8.1: Populations Access to Drinking Water and Sanitation	0,000	0,000	0,000	0,000	0,000	0,000	0,000
SP 8.2: Village Hydraulic Development and Building Resilience Against Climate Change in Rural Areas			17,963	17,963	17,963	53,890	0,000	0,000	53,890	
P8 Program Total			17,963	17,963	17,963	53,890	0,000	0,000	53,890	
P9: Hydraulic and pastoral farming		SP 9.1: Ponds and wells Development for livestock	37,913	37,913	37,913	113,740	0,980	0,000	114,720	
		SP 9.2: Rehabilitation or Construction of dams or reservoirs for irrigation Purposes	0,000	0,000	0,000	0,000	4,850	0,000	4,850	
		P9 Program Total	37,913	37,913	37,913	113,740	5,830	0,000	119,570	
AXIS 4 TOTAL			55,877	55,877	55,877	167,630	5,830	0,000	173,460	
A5: Strengthening inter-state cooperation for a synergy of action in water resources management	P10: Cooperation for water resources sharing and management	SP 10.1: Management of transboundary resources.	0,000	0,000	0,622	0,622	0,000	0,000	0,622	
		SP 10.2: Water Charter between States bordering a basin.	0,000	0,000	0,000	0,000	0,000	0,000	0,000	
		P10 Program Total	0,000	0,000	0,622	0,622	0,000	0,000	0,622	
	P11: Implementation of regional guidelines and policies at the state level.	SP 11.1: Institutional Support	0,000	0,000	0,000	0,000	0,000	0,000	0,000	
		SP 11.2: Regional, subregional and national capacity reinforcement.	0,000	0,000	0,000	0,000	0,000	0,000	0,000	
		P11 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000	
AXIS 5 TOTAL			0,000	0,000	0,622	0,622	0,000	0,000	0,622	
Priority 6: Reduction of GHG(Greenhouse Gas effects) emissions in the agropastoral sector	P12: Promotion of low carbon agricultural production systems	SP 12.1: Sustainable management of soil fertility	70,000	70,000	70,000	210,000	367,500	472,500	1 050 000	
		SP 12.2: Sustainable management of irrigation systems	70,000	70,000	70,000	210,000	367,500	472,500	1 050 000	
		P12 Program Total	140,000	140,000	140,000	420,000	735,000	945,000	2 100,000	
	P13: Promotion of low carbon animal	SP 13.1: Promotion of integrated crop-livestock systems	70,000	70,000	70,000	210,000	367,500	472,500	1 050 000	

AXIS	PROGRAMS	SUBPROGRAMS	Benin						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
	production systems	13.2 SP: Securing pastoral production systems	70,000	70,000	70,000	210,000	367,500	472,500	1 050 000
		P13 Program Total	140,000	140,000	140,000	420,000	735,000	945,000	2 100,000
		AXIS 6 TOTAL	280,000	280,000	280,000	840,000	1 470,000	1 890,000	4 200,000
Priority 7: Promotion of sustainable production systems in the context of adaptation to climate change	P14: Promotion of models for intensification of sustainable agricultural and livestock production	SP 14.1: Promotion of sustainable agricultural intensification models	70,000	70,000	70,000	210,000	367,500	472,500	1 050 000
		SP 14.2: Promotion of sustainable livestock production intensification models	70,000	70,000	70,000	210,000	367,500	472,500	1 050 000
		P14 Program Total	140,000	140,000	140,000	420,000	735,000	945,000	2 100,000
	P15: Restoration of agricultural and pastoral land	SP 15.1: Restoration of farmland	70,000	70,000	70,000	210,000	367,500	472,500	1 050 000
		SP 15.2: Restoring rangelands	70,000	70,000	70,000	210,000	367,500	472,500	1 050 000
		P15 Program Total	140,000	140,000	140,000	420,000	735,000	945,000	2 100,000
	P16: Management of agricultural and pastoral risk	SP 16.1: Promotion of insurance on agricultural and animal productions	70,000	70,000	70,000	210,000	367,500	472,500	1 050 000
		SP 16.2: Improvement of knowledge and management of risks related to agricultural and livestock productions	70,000	70,000	70,000	210,000	367,500	472,500	1 050 000
		P16 program Total	140,000	140,000	140,000	420,000	735,000	945,000	2 100,000
			AXIS 7 TOTAL	420,000	420,000	420,000	1 260,000	2 205,000	2 835,000
Axis 8: Improvement of overall energy efficiency	P17: Energy efficiency of biomass energy chains	SP 17.1: Promotion of Improved wood and charcoal stoves	2,000	2,000	2,000	6,000	6,000	6,000	18,000
		SP 17.2: Promotion of Improved Charcoal Production technology & production of charcoal	0,500	0,500	0,600	1,600	2,000	1,400	5,000
		SP 17.3: Development of alternative energy systems in forest fuel (biogas, biofuels, agroforestry residues, etc.)	0,000	0,000	0,000	0,000	6,000	9,000	15,000
		P17 Program Total	2,500	2,500	2,600	7,600	14,000	16,400	38,000
	P18: Energy efficiency of the modes of production and transmission of electrical energy	18.1 SP: Technological upgrade of energy-consuming thermal power plants	0,000	0,000	0,000	0,000	45,000	40,000	85,000
		18.2 SP: Technological upgrade of transmission networks (transmission & distribution of electrical energy)	0,000	0,000	0,000	0,000	40,000	30,000	70,000
		18.3 SP: Promotion of Low Consumption Lamps (LCL) and public lighting through solar streetlights	11,000	14,000	15,000	40,000	50,000	60,000	150,000
		P18 Program Total	11,000	14,000	15,000	40,000	135,000	130,000	305,000
	P19: Control of energy demand	19.1 SP: Standardization, Certification & Optimization of demand for conventional energy	0,000	0,000	0,000	0,000	9,000	4,000	13,000
		P19 Program Total	0,000	0,000	0,000	0,000	9,000	4,000	13,000
		AXIS 8 TOTAL	13,500	16,500	17,600	47,600	158,000	150,400	356,000
A9: Renewable Energy Promotion	P20: Accelerated development & Project management of hydropower	SP 20.1: Upgrading the potentialities of hydropower	40,000	52,000	100,000	192,000	350,000	350,000	892,000
		P20 Program Total	40,000	52,000	100,000	192,000	350,000	350,000	892,000

AXIS	PROGRAMS	SUBPROGRAMS	Benin							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
	P21: Improving the energy mix in a positive eco-balance	SP 21.1: Promotion & Accelerated development of other forms of renewable energy for electrification	4,000	4,000	6,000	14,000	45,000	65,000	124,000	
		P21 Program Total	4,000	4,000	6,000	14,000	45,000	65,000	124,000	
		AXIS 9 TOTAL	44,000	56,000	106,000	206,000	395,000	415,000	1 016 000	
A10: Improving access to modern energy services	P22: Rural and peri-urban electrification	P 22.1: Promotion and development of sustainable rural electrification	20,000	20,000	40,000	80,000	85,000	85,000	250,000	
		P22 Program Total	20,000	20,000	40,000	80,000	85,000	85,000	250,000	
	P23: Domestic alternative fuels to wood energy	P 23.1: Promotion of domestic butane fuel substitute for wood energy	5,000	10,000	15,000	30,000	30,000	30,000	90,000	
		P23 Program Total	5,000	10,000	15,000	30,000	30,000	30,000	90,000	
	P24: Rural access to modern energy	P 24.1: Multifunctional access platform for energy & driving forces	0,300	0,300	0,300	0,900	1,600	1,800	4,300	
		P24 Program Total	0,300	0,300	0,300	0,900	1,600	1,800	4,300	
			AXIS 10 TOTAL	25,300	30,300	55,300	110,900	116,600	116,800	344300
	A11: Development of a communication and advocacy strategy on climate change	P25: Development of a Regional Communication Strategy on Climate Change and Resilience.	SP 25.1: Development and implementation of a regional communication strategy	0,040	0,000	0,000	0,040	0,000	0,000	
SP 25.2 Creation and Management of a Regional Portal "Climate Change and Resilience in the Sahel"			0,300	0,300	0,300	0,900	1,500	1,500		
P25 program Total			0340	0,300	0,300	0,940	1,500	1,500	0,000	
P26: Implementation of Advocacy		SP 26.1: Launch of a campaign "The Sahel is now!>	0,000	0,000	0,000	0,000	0,000	0,000		
		SP 26.2: Regional Gala of Excellence Held Annually	0,300	0,300	0,300	0,900	1,500	1,500		
		SP 26.3 Creation and management of a regional movement of youth " Sahel Volunteers"	0,000	0,500	0,000	0,500	0,000	0,000		
		P26 program Total	0,300	0,800	0,300	1,400	1,500	1,500	0,000	
			TOTAL AREA 11	0,640	1,100	0,600	2,340	3,000	3,000	0,000
A12: Capacity reinforcement of communication and advocacy actors	P27: Capacity building at the individual level	27.1 SP: Capacity Building of media professionals	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 27.2: Capacity Building for Advocacy actors (opinion leaders)	0,000	0,100	0,100	0,200	0,500	0,500		
		27.3 SP: Capacity building of civil society actors	0,050	0,100	0,100	0,250	0,500	0,500		
		P27 Program Total	0,100	0,300	0,300	0,700	1,500	1,500	0,000	
	P28: Capacity building Organizationally	SP 28.1: Capacity Building of Press enterprises	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 28.2: Institutional capacity reinforcement (public services and ministry officials related to environmental issues).	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 28.3: Capacity Building of NGOs and Civil Society	0,050	0,100	0,100	0,250	0,500	0,500		
		P28 Program Total	0,150	0,300	0,300	0,750	1,500	1,500	0,000	

AXIS	PROGRAMS	SUBPROGRAMS	Benin						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
		AXIS 12 TOTAL	0,250	0,600	0,600	1,450	3,000	3,000	0,000
A13: Capacity building of national institutions and frameworks in the area of climate change	P29: Countries capacity building in the field of climate change	SP 29.1: Institutional Capacities reinforcement	0,250	0,000	0,000	0,250	3,200	2,200	5,650
		SP 29.2: Strengthening the Capacities of different stakeholder groups in the implementation of Multilateral Environmental Agreements (MEAs)	0,250	0,500	0,500	1,250	3,000	3,000	7,250
		SP 29.3 Institutional capacity building in the field of energy	4,000	3,500	3,500	11,000	0,000	0,000	11,000
		P29 Program Total	4,000	3,500	3,500	12,500	0,000	0,000	11,000
		AXIS 13 TOTAL	4,000	3,500	3,500	12,500	0,000	0,000	11,000
Axis 14: Strengthening climate information systems and the synergy between research and development structures	P 30: Production of information and means of popularizing information on climate change (National and regional scales)	SP 30.1. Strengthening of information generation capacity is climate change	0,000	0,500	0,500	1,000	2,000	2,000	5,000
		SP 30.2. systems development and use of information is CC extension	0,000	0,500	0,500	1,000	1,500	1,500	4,000
		P30 Program Total	0,000	1,000	1,000	2,000	3,500	3,500	9,000
	P31: Capacity building of actors in the use of climate change information	SP 31.1. Strengthening the Capacities of technical services to to use of information on climate change	0,000	0,500	0,500	1,000	1,000	1,000	3,000
		SP 31.2. Strengthening private sector capacity, civil society and local communities in the use of information on climate change	0,000	0,500	0,500	1,000	1,500	1,500	4,000
		P31 Program Total	0,000	1,000	1,000	2,000	2,500	2,500	7,000
		AXIS 14 TOTAL	0,000	2,000	2,000	4,000	6,000	6,000	16,000
Axis 15: Strengthening capacity to Mobilize financial and technical partnerships	P32: Frames capacity building in the field of negotiations	SP 32.1: Development of multi-year programs of national training frameworks in the field of negotiations	0,100	0,100	0,100	0,300			0,300
		SP32.2: Implementation of executive training programs in the field of negotiations	1,000	1,000	1,000	3,000			3,000
		P32 Program Total	1,100	1,100	1,100	3,300	0,000	0,000	3,300
	P33: Improving access conditions to climate fund	SP33.1: Program for updating and translating NDCs (Nationally Determined Contribution) into programs and operational projects	0,100	0,100	0,100	0,300			0,300
		SP33.2: Development and implementation of a Capacity Building Program for National Managers to Facilitate Access to Climate Funds	1,000	1,000	1,000	3,000			3,000
		SP 33.3 Coordination by the Joint Working Group (JWG)	0,000	0,000	0,000	0,000			0,000
		P33 Program Total	1,100	1,100	1,100	3,300	0,000	0,000	3,300
	P34: Advocacy for Mobilizing technical and financial resources for regional organizations	34.1 SP: Advocacy of Basin Organizations	0,000	0,000	0,000	0,000			0,000
		34.2 SP: Advocacy for regional organisms	0,000	0,000	0,000	0,000			0,000
		P34 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		AXIS 15 TOTAL	2,200	2,200	2,200	6,600	0,000	0,000	6,600

AXIS	PROGRAMS	SUBPROGRAMS	Benin						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
Investement Plan for the Sahel Region (CIP SR) TOTAL			845767	912388	988550	2 750 204	6 088 906	7 048 081	16 173 379

Appendix 2: RPP and CIP SR of Burkina Faso (in US \$ million)

AXIS	PROGRAMS	SUBPROGRAMS	BURKINA FASO							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
A1: Restoration and rehabilitation of degraded lands and sensitive ecosystems	P1: Support to national and regional programs for land restoration	SP 1.1: Support to National Plans for land degradation neutrality and Their extension to the Region	0,000	0,500	0,500	1,000	490475	490475	981951	
		SP 1.2: Support for the restoration of agricultural land in AIC's framework	0,000	0,500	0,500	1,000	27420	27420	55840	
		SP 1.3: Development of "Economics of Land Degradation" and the Green Economy	0,000	0,500	0,500	1,000	7,000	7,000	15,000	
		P1 Program Total	0,000	1,500	1,500	3,000	524895	524895	1 052 791	
	P2: Integrated management of sensitive ecosystems significant for building resilience	SP 2.1: Protection and development of humid areas important for Ramsar's Convention	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		SP 2.2: Reconstruction and protection of delicate ecosystems in Sahel's Region (mangrove stands, tiger bush, basins and oases)	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		SP 2.3: Coastal areas Protection	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		P2 Program Total	0,000	1,000	1,000	3,000	265,000	265,000	798,000	
	AXIS 1 TOTAL			0,000	2,500	2,500	6,000	789895	789895	1 850 791
	A2: Carbon sequestration capacities reinforcement	P3: Reconstruction Support of major natural ecosystems for carbon sequestration	SP 3.1: Support of the rehabilitation of classified forests and other significant natural ecosystems	0,000	0,500	0,500	1,000	459669	459669	920338
SP 3.2: Promoting the establishment and management of protected areas and national parks			0,000	0,500	0,500	1,000	459669	459669	920338	
SP 3.3: Fight against deforestation (land clearing) and bushfires			0,000	0,500	0,500	1,000	45967	45967	92934	
P3 Program Total			0,000	1,000	1,000	3,000	919338	919338	1 933 609	
P4: Reforestation plan promotion in the context of carbon sequestration		SP 4.1: Development and implementation of a state program of reforestation in the countries of the Sahel Region	0,000	0,500	0,500	1,000	525,000	525,000	1 051 000	
		SP 4.2: Promotion of operations "Village wood" in local communities and private plantations	0,000	0,500	0,500	1,000	3,500	3,500	8,000	
		P4 Program Total	0,000	1,000	1,000	2,000	528500	528500	1 059 000	
AXIS 2 TOTAL			0,000	2,000	2,000	5,000	1 447 838	1 447 838	2 992 609	
A3: knowledge Improvement and conservation / water resources management	P5: Support for Strengthening the knowledge of water field	SP 5.1: Research and development on water	0283	19088	2,623	21994	5,917	5,917	33828	
		SP 5.2: Establishment of databases on urban and village water works in the states	0,000	0,000	0,000	0,000	0,000	0,000	0,000	

AXIS	PROGRAMS	SUBPROGRAMS	BURKINA FASO						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
		SP 5.3: Setting up databases on hydrogeology and characteristics of groundwater resources.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P5 Program Total	0283	19088	2,623	21994	5,917	5,917	33828
	P6: observation and monitoring of Surface water and groundwater resources	SP 6.1: Support to the dissemination of States meteorological observations results	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 6.2: Installation and Support for the Strengthening of water observatories in countries watersheds.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 6.3: Support to the operationalization of the weather models in the States	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P6 Total Program	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P7: preservation and water resource management.	SP 7.1: Support for the results extension of States meteorological observation	0,000	0,000	0,000	0,000	60340	0,000	60340
		SP 7.2: Installation and Strengthening Support for the water observatories in countries watersheds.	0,000	0,800	0,000	0,800	0,000	0,000	0,800
		SP 7.3: Support for the operationalization of weather forecast models in the States	0,000	0,000	0,000	0,000	8,315	0,000	8,315
		SP 7.4: Water Resources Mobilization	0,000	0,000	0,550	0,550	0845	0,000	1,395
		P7 Program Total	0,000	0,800	0,550	1,350	69,500	0,000	70850
		AXIS 3 TOTAL	0283	19888	3,173	23344	75417	5,917	104678
A4: Access to drinking water and productive uses	P8: Urban and Rural Water Supply	SP 8.1: Populations Access to Drinking Water and Sanitation	0,000	0,000	6,750	6,750	0,000	0,000	6,750
		SP 8.2: Village Hydraulic Development and Building Resilience Against Climate Change in Rural Areas	0,000	0,000	0463	0463	0,000	0,000	0463
		P8 Program Total	0,000	0,000	7,213	7,213	0,000	0,000	7,213
	P9: Hydraulic and pastoral farming	SP 9.1: Ponds and wells Development for livestock	0,000	0,275	0,000	0,275	0,000	0,000	0,275
		SP 9.2. : Rehabilitation or Construction of dams or reservoirs for irrigation Purposes	0,000	32338	5,042	37381	0,000	86301	123682
P9 Program Total		0,000	32613	5,042	37656	0,000	86301	123957	
		AXIS 4 TOTAL	0,000	32613	12256	44869	0,000	86301	131170
A5: Strengthening inter-state cooperation for a synergy of action in water	P10: Cooperation for water resources sharing and management	SP 10.1: Management of transboundary resources.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 10.2: Water Charter between States bordering a basin.	0,000	0,000	0348	0348	0,000	0,000	0348

AXIS	PROGRAMS	SUBPROGRAMS	BURKINA FASO						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
resources management		P10 Program Total	0,000	0,000	0348	0348	0,000	0,000	0348
	P11: Implementation of regional guidelines and policies at the state level.	SP 11.1: Institutional Support	0,000	0,000	1,000	1,000	0,000	0,000	1,000
		SP 11.2: Regional, subregional and national capacity reinforcement.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P11 Program Total	0,000	0,000	1,000	1,000	0,000	0,000	1,000
		AXIS 5 TOTAL	0,000	0,000	1,348	1,348	0,000	0,000	1,348
Priority 6: Reduction of GHG(Greenhouse Gas effects) emissions in the agropastoral sector	P12: Promotion of low carbon agricultural production systems	SP 12.1: Sustainable management of soil fertility	49519	49519	49519	148557	259974	334253	742784
		SP 12.2: Sustainable management of irrigation systems	49519	49519	49519	148557	259974	334253	742784
		P12 Program Total	99038	99038	99038	297114	519949	668505	1 485 568
	P13: Promotion of low carbon animal production systems	SP 13.1: Promotion of integrated crop-livestock systems	49519	49519	49519	148557	259974	334253	742784
		13.2 SP: Securing pastoral production systems	49519	49519	49519	148557	259974	334253	742784
		P13 Program Total	99038	99038	99038	297114	519949	668505	1 485 568
		AXIS 6 TOTAL	198076	198076	198076	594227	1 039 897	1 337 011	2 971 135
Priority 7: Promotion of sustainable production systems in the context of adaptation to climate change	P14: Promotion of models for intensification of sustainable agricultural and livestock production	SP 14.1: Promotion of sustainable agricultural intensification models	49519	49519	49519	148557	259974	334253	742784
		SP 14.2: Promotion of sustainable livestock production intensification models	49519	49519	49519	148557	259974	334253	742784
		P14 Program Total	99038	99038	99038	297114	519949	668505	1 485 568
	P15: Restoration of agricultural and pastoral land	SP 15.1: Restoration of farmland	49519	49519	49519	148557	259974	334253	742784
		SP 15.2: Restoring rangelands	49519	49519	49519	148557	259974	334253	742784
		P15 Program Total	99038	99038	99038	297114	519949	668505	1 485 568
	P16: Management of agricultural and pastoral risk	SP 16.1: Promotion of insurance on agricultural and animal productions	49519	49519	49519	148557	259974	334253	742784
		SP 16.2: Improvement of knowledge and management of risks related to agricultural and livestock productions	49519	49519	49519	148557	259974	334253	742784
		P16 program Total	99038	99038	99038	297114	519949	668505	1 485 568
		AXIS 7 TOTAL	297114	297114	297114	891341	1 559 846	2 005 516	4 456 703
Axis 8: Improvement of overall energy efficiency	P17: Energy efficiency of biomass energy chains	SP 17.1: Promotion of Improved wood and charcoal stoves	3,000	3,000	3,000	9,000	15,000	17,000	41,000
		SP 17.2: Promotion of Improved Charcoal Production technology & production of charcoal	0,900	0,900	1,000	2,800	3,000	2,200	8,000
		SP 17.3: Development of alternative energy systems in forest fuel (biogas, biofuels, agroforestry residues, etc.)	0,000	0,000	0,000	0,000	11,000	21,000	32,000
		P17 Program Total	3,900	3,900	4,000	11,800	29,000	40,200	81,000

AXIS	PROGRAMS	SUBPROGRAMS	BURKINA FASO						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
	P18: Energy efficiency of the modes of production and transmission of electrical energy	18.1 SP: Technological upgrade of energy-consuming thermal power plants	0,000	0,000	0,000	0,000	90,000	80,000	170,000
		18.2 SP: Technological upgrade of transmission networks (transmission & distribution of electrical energy)	0,000	0,000	0,000	0,000	50,000	70,000	120,000
		18.3 SP: Promotion of Low Consumption Lamps (LCL) and public lighting through solar streetlights	20,000	30,000	40,000	90,000	85,000	85,000	260,000
		P18 Program Total	20,000	30,000	40,000	90,000	225,000	235,000	550,000
	P19: Control of energy demand	19.1 SP: Standardization, Certification & Optimization of demand for conventional energy	0,000	0,000	0,000	0,000	15,000	10,000	25,000
		P19 Program Total	0,000	0,000	0,000	0,000	15,000	10,000	25,000
		AXIS 8 TOTAL	23,900	33,900	44,000	101,800	269,000	285,200	656,000
A9: Renewable Energy Promotion	P20: Accelerated development & Project management of hydropower	SP 20.1: Upgrading the potentialities of hydropower	6,000	7,000	16,000	29,000	40,000	40,000	109,000
		P20 Program Total	6,000	7,000	16,000	29,000	40,000	40,000	109,000
	P21: Improving the energy mix in a positive eco-balance	SP 21.1: Promotion & Accelerated development of other forms of renewable energy for electrification	50,000	60,000	123,000	233,000	400,000	500,000	1 133,000
		P21 Program Total	50,000	60,000	123,000	233,000	400,000	500,000	1 133,000
		AXIS 9 TOTAL	56,000	67,000	139,000	262,000	440,000	540,000	1 242,000
A10: Improving access to modern energy services	P22: Rural and peri-urban electrification	P 22.1: Promotion and development of sustainable rural electrification	25,000	25,000	40,000	90,000	95,000	95,000	280,000
		P22 Program Total	25,000	25,000	40,000	90,000	95,000	95,000	280,000
	P23: Domestic alternative fuels to wood energy	P 23.1: Promotion of domestic butane fuel substitute for wood energy	5,000	7,000	8,000	20,000	60,000	70,000	150,000
		P23 Program Total	5,000	7,000	8,000	20,000	60,000	70,000	150,000
	P24: Rural access to modern energy	P 24.1: Multifunctional access platform for energy & driving forces	1,500	1,500	2,000	5,000	5,000	5,000	15,000
		P24 Program Total	1,500	1,500	2,000	5,000	5,000	5,000	15,000
		AXIS 10 TOTAL	31,500	33,500	50,000	115,000	160,000	170,000	445,000
A11: Development of a communication and advocacy strategy on climate change	P25: Development of a Regional Communication Strategy on Climate Change and Resilience.	SP 25.1: Development and implementation of a regional communication strategy	0,040	0,000	0,000	0,040	0,000	0,000	
		SP 25.2 Creation and Management of a Regional Portal "Climate Change and Resilience in the Sahel"	0,300	0,300	0,300	0,900	1,500	1,500	
		P25 program Total	0,340	0,300	0,300	0,940	1,500	1,500	0,000
	P26: Implementation of Advocacy	SP 26.1: Launch of a campaign "The Sahel is now!"	0,000	0,000	0,000	0,000	0,000	0,000	
		SP 26.2: Regional Gala of Excellence Held Annually	0,300	0,300	0,300	0,900	1,500	1,500	

AXIS	PROGRAMS	SUBPROGRAMS	BURKINA FASO							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
		SP 26.3 Creation and management of a regional movement of youth " Sahel Volunteers"	0,000	0,000	0,000	0,000	0,000	0,000		
		P26 program Total	0,300	0,300	0,300	0,900	1,500	1,500	0,000	
		TOTAL AREA 11	0,640	0,600	0,600	1,840	3,000	3,000	0,000	
A12: Capacity reinforcement of communication and advocacy actors	P27: Capacity building at the individual level	27.1 SP: Capacity Building of media professionals	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 27.2: Capacity Building for Advocacy actors (opinion leaders)	0,000	0,100	0,100	0,200	0,500	0,500		
		27.3 SP: Capacity building of civil society actors	0,050	0,100	0,100	0,250	0,500	0,500		
		P27 Program Total	0,100	0,300	0,300	0,700	1,500	1,500	0,000	
	P28: Capacity building Organizationally	SP 28.1: Capacity Building of Press enterprises	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 28.2: Institutional capacity reinforcement (public services and ministry officials related to environmental issues).	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 28.3: Capacity Building of NGOs and Civil Society	0,050	0,100	0,100	0,250	0,500	0,500		
		P28 Program Total	0,150	0,300	0,300	0,750	1,500	1,500	0,000	
			AXIS 12 TOTAL	0,250	0,600	0,600	1,450	3,000	3,000	0,000
	A13: Capacity building of national institutions and frameworks in the area of climate change	P29: Countries capacity building in the field of climate change	SP 29.1: Institutional Capacities reinforcement	0,000	0,000	0,000	0,000	3,200	2,200	5,400
SP 29.2: Strengthening the Capacities of different stakeholder groups in the implementation of Multilateral Environmental Agreements (MEAs)			0,000	0,500	0,500	1,000	3,000	3,000	7,000	
SP 29.3 Institutional capacity building in the field of energy			3,000	6,500	5,700	15,200	0,000	0,000	15,200	
P29 Program Total			3,000	6,500	5,700	16,200	0,000	0,000	15,200	
		AXIS 13 TOTAL	3,000	6,500	5,700	16,200	0,000	0,000	15,200	
Axis 14: Strengthening climate information systems and the synergy between research and development structures	P 30: Production of information and means of popularizing information on climate change (National and regional scales)	SP 30.1. Strengthening of information generation capacity is climate change	0,000	0,500	0,500	1,000	2,000	2,000	5,000	
		SP 30.2. systems development and use of information is CC extension	0,000	0,500	0,500	1,000	1,500	1,500	4,000	
		P30 Program Total	0,000	1,000	1,000	2,000	3,500	3,500	9,000	
	P31: Capacity building of actors in the use of climate change	SP 31.1. Strengthening the Capacities of technical services to to use of information on climate change	0,000	0,500	0,500	1,000	1,000	1,000	3,000	

AXIS	PROGRAMS	SUBPROGRAMS	BURKINA FASO							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
	information	SP 31.2. Strengthening private sector capacity, civil society and local communities in the use of information on climate change	0,000	0,500	0,500	1,000	1,500	1,500	4,000	
		P31 Program Total	0,000	1,000	1,000	2,000	2,500	2,500	7,000	
		AXIS 14 TOTAL	0,000	2,000	2,000	4,000	6,000	6,000	16,000	
Axis 15: Strengthening capacity to Mobilize financial and technical partnerships	P32: Frames capacity building in the field of negotiations	SP 32.1: Development of multi-year programs of national training frameworks in the field of negotiations				0,000			0,000	
		SP32.2: Implementation of executive training programs in the field of negotiations	1,000	1,000	1,000	3,000			3,000	
		P32 Program Total	1,000	1,000	1,000	3,000	0,000	0,000	3,000	
	P33: Improving access conditions to climate fund	SP33.1: Program for updating and translating NDCs (Nationally Determined Contribution) into programs and operational projects	0,100	0,100	0,100	0,300			0,300	
		SP33.2: Development and implementation of a Capacity Building Program for National Managers to Facilitate Access to Climate Funds	1,000	1,000	1,000	3,000			3,000	
		SP 33.3 Coordination by the Joint Working Group (JWG)	0,000	0,000	0,000	0,000			0,000	
		P33 Program Total	1,100	1,100	1,100	3,300	0,000	0,000	3,300	
	P34: Advocacy for Mobilizing technical and financial resources for regional organizations	34.1 SP: Advocacy of Basin Organizations	0,000	0,000	0,000	0,000			0,000	
		34.2 SP: Advocacy for regional organisms	0,000	0,000	0,000	0,000			0,000	
		Program 34Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000	
			AXIS 15 TOTAL	2,100	2,100	2,100	6,300	0,000	0,000	6,300
	CIP SR TOTAL			612862	698390	760465	2 074 718	5 793 893	6 679 679	14 888 934

Appendix 3: RPP and CIP SR of Cameroon (in US \$ million)

AXIS	PROGRAMS	SUBPROGRAMS	CAMEROON							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
A1: Restoration and rehabilitation of degraded lands and sensitive ecosystems	P1: Support to national and regional programs for land restoration	SP 1.1: Support to National Plans for land degradation neutrality and Their extension to the Region	0,000	0,500	0,500	1,000	576806	576806	1 154 611	
		SP 1.2: Support for the restoration of agricultural land in AIC's framework	0,000	0,500	0,500	1,000	32246	32246	65493	
		SP 1.3: Development of "Economics of Land Degradation" and the Green Economy	0,000	0,500	0,500	1,000	7,000	7,000	15,000	
		P1 Program Total	0,000	1,500	1,500	3,000	616052	616052	1 235 104	
	P2: Integrated management of sensitive ecosystems significant for building resilience	SP 2.1: Protection and development of humid areas important for Ramsar's Convention	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		SP 2.2: Reconstruction and protection of delicate ecosystems in Sahel's Region (mangrove stands, tiger bush, basins and oases)	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		SP 2.3: Coastal areas Protection	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		P2 Program Total	0,000	1,000	1,000	3,000	265,000	265,000	798,000	
			AXIS 1 TOTAL	0,000	2,500	2,500	6,000	881052	881052	2 033 104
	A2: Carbon sequestration capacities reinforcement	P3:Reconstruction Support of major natural ecosystems for carbon sequestration	SP 3.1: Support of the rehabilitation of classified forests and other significant natural ecosystems	0,000	0,500	0,500	1,000	540577	540577	1 082 154
SP 3.2: Promoting the establishment and management of protected areas and national parks			0,000	0,500	0,500	1,000	540577	540577	1 082 154	
SP 3.3: Fight against deforestation (land clearing) and bushfires			0,000	0,500	0,500	1,000	54058	54058	109115	
P3 Program Total			0,000	1,000	1,000	3,000	1 081 154	1 081 154	2 273 423	
P4: Reforestation plan promotion in the context of carbon sequestration		SP 4.1: Development and implementation of a state program of reforestation in the countries of the Sahel Region	0,000	0,500	0,500	1,000	525,000	525,000	1 051 000	
		SP 4.2: Promotion of operations "Village wood" in local communities and private plantations	0,000	0,500	0,500	1,000	3,500	3,500	8,000	
		P4 Program Total	0,000	1,000	1,000	2,000	528500	528500	1 059 000	
		AXIS 2 TOTAL	0,000	2,000	2,000	5,000	1 609 654	1 609 654	3 332 423	
A3: knowledge Improvement and conservation / water resources management	P5: Support for Strengthening the knowledge of water field	SP 5.1: Research and development on water	0,000	8,880	0,000	8,880	0,000	0,000	8,880	
		SP 5.2: Establishment of databases on urban and village water works in the states	0,000	0,000	0,000	0,000	0,000	0,000	0,000	

AXIS	PROGRAMS	SUBPROGRAMS	CAMEROON						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
		SP 5.3: Setting up databases on hydrogeology and characteristics of groundwater resources.	0,000	3,300	0,000	3,300	0,000	0,000	3,300
		P5 Program Total	0,000	12,180	0,000	12,180	0,000	0,000	12,180
	P6: observation and monitoring of Surface water and groundwater resources	SP 6.1: Support to the dissemination of States meteorological observations results	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 6.2: Installation and Support for the Strengthening of water observatories in countries watersheds.	0,000	2,200	0,000	2,200	0,000	0,000	2,200
		SP 6.3: Support to the operationalization of the weather models in the States	0,000	0,000	15,000	15,000	0,000	0,000	15,000
		P6 Total Program	0,000	2,200	15,000	17,200	0,000	0,000	17,200
	P7: preservation and water resource management.	SP 7.1: Support for the results extension of States meteorological observation	0,000	1,677	1,100	2,777	10,000	20,000	32777
		SP 7.2: Installation and Strengthening Support for the water observatories in countries watersheds.	0,000	0,000	60,000	60,000	0,000	0,000	60,000
		SP 7.3: Support for the operationalization of weather forecast models in the States	0,000	0,000	20,000	20,000	32170	0,000	52170
		SP 7.4: Water Resources Mobilization	0,000	0,000	3,257	3,257	0,000	0,000	3,257
		P7 Program Total	0,000	1,677	84357	86034	42170	20,000	148204
		AXIS 3 TOTAL	0,000	16057	99357	115414	42170	20,000	177584
A4: Access to drinking water and productive uses	P8: Urban and Rural Water Supply	SP 8.1: Populations Access to Drinking Water and Sanitation	0,000	0,000	13,750	13,750	1,100	0,000	14,850
		SP 8.2: Village Hydraulic Development and Building Resilience Against Climate Change in Rural Areas	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P8 Program Total	0,000	0,000	13,750	13,750	1,100	0,000	14,850
	P9: Hydraulic and pastoral farming	SP 9.1: Ponds and wells Development for livestock	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 9.2: Rehabilitation or Construction of dams or reservoirs for irrigation Purposes	0,000	6,430	0,000	6,430	0,000	0,000	6,430
		P9 Program Total	0,000	6,430	0,000	6,430	0,000	0,000	6,430
		AXIS 4 TOTAL	0,000	6,430	13,750	20,180	1,100	0,000	21280
A5: Strengthening inter-state cooperation for a synergy of action in water	P10: Cooperation for water resources sharing and management	SP 10.1: Management of transboundary resources.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 10.2: Water Charter between States bordering a basin.	0,000	3,300	0,000	3,300	3,300	0,000	6,600

AXIS	PROGRAMS	SUBPROGRAMS	CAMEROON						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
resources management		P10 Program Total	0,000	3,300	0,000	3,300	3,300	0,000	6,600
	P11: Implementation of regional guidelines and policies at the state level.	SP 11.1: Institutional Support	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 11.2: Regional, subregional and national capacity reinforcement.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P11 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		AXIS 5 TOTAL	0,000	3,300	0,000	3,300	3,300	0,000	6,600
Priority 6: Reduction of GHG(Greenhouse Gas effects) emissions in the agropastoral sector	P12: Promotion of low carbon agricultural production systems	SP 12.1: Sustainable management of soil fertility	62059	62059	62059	186176	325808	418896	930879
		SP 12.2: Sustainable management of irrigation systems	62059	62059	62059	186176	325808	418896	930879
		P12 Program Total	124117	124117	124117	372352	651616	837791	1 861 759
	P13: Promotion of low carbon animal production systems	SP 13.1: Promotion of integrated crop-livestock systems	62059	62059	62059	186176	325808	418896	930879
		13.2 SP: Securing pastoral production systems	62059	62059	62059	186176	325808	418896	930879
		P13 Program Total	124117	124117	124117	372352	651616	837791	1 861 759
		AXIS 6 TOTAL	248234	248234	248234	744703	1 303 231	1 675 583	3 723 517
Priority 7: Promotion of sustainable production systems in the context of adaptation to climate change	P14: Promotion of models for intensification of sustainable agricultural and livestock production	SP 14.1: Promotion of sustainable agricultural intensification models	62059	62059	62059	186176	325808	418896	930879
		SP 14.2: Promotion of sustainable livestock production intensification models	62059	62059	62059	186176	325808	418896	930879
		P14 Program Total	124117	124117	124117	372352	651616	837791	1 861 759
	P15: Restoration of agricultural and pastoral land	SP 15.1: Restoration of farmland	62059	62059	62059	186176	325808	418896	930879
		SP 15.2: Restoring rangelands	62059	62059	62059	186176	325808	418896	930879
		P15 Program Total	124117	124117	124117	372352	651616	837791	1 861 759
	P16: Management of agricultural and pastoral risk	SP 16.1: Promotion of insurance on agricultural and animal productions	62059	62059	62059	186176	325808	418896	930879
		SP 16.2: Improvement of knowledge and management of risks related to agricultural and livestock productions	62059	62059	62059	186176	325808	418896	930879
		P16 program Total	124117	124117	124117	372352	651616	837791	1 861 759
		AXIS 7 TOTAL	372352	372352	372352	1 117 055	1 954 847	2 513 374	5 585 276
Axis 8: Improvement of overall energy efficiency	P17: Energy efficiency of biomass energy chains	SP 17.1: Promotion of Improved wood and charcoal stoves	3,000	3,000	3,300	9,300	7,000	6,000	22,300
		SP 17.2: Promotion of Improved Charcoal Production technology & production of charcoal	0,900	0,900	1,000	2,800	3,000	2,200	8,000
		SP 17.3: Development of alternative energy systems in forest fuel (biogas, biofuels, agroforestry residues, etc.)	0,000	0,000	0,000	0,000	15,000	30,000	45,000
		P17 Program Total	3,900	3,900	4,300	12,100	25,000	38,200	75.300

AXIS	PROGRAMS	SUBPROGRAMS	CAMEROON						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
	P18: Energy efficiency of the modes of production and transmission of electrical energy	18.1 SP: Technological upgrade of energy-consuming thermal power plants	0,000	0,000	0,000	0,000	90,000	84,000	174,000
		18.2 SP: Technological upgrade of transmission networks (transmission & distribution of electrical energy)	0,000	0,000	0,000	0,000	55,000	75,000	130,000
		18.3 SP: Promotion of Low Consumption Lamps (LCL) and public lighting through solar streetlights	15,000	25,000	40,000	80,000	85,000	85,000	250,000
	P18 Program Total	15,000	25,000	40,000	80,000	230,000	244,000	554,000	
	P19: Control of energy demand	19.1 SP: Standardization, Certification & Optimization of demand for conventional energy	0,000	0,000	0,000	0,000	16,000	11,000	27,000
	P19 Program Total	0,000	0,000	0,000	0,000	16,000	11,000	27,000	
		AXIS 8 TOTAL	18,900	28,900	44,300	92,100	271,000	293,200	656,300
A9: Renewable Energy Promotion	P20: Accelerated development & Project management of hydropower	SP 20.1: Upgrading the potentialities of hydropower	30,000	30,000	35,000	95,000	120,000	120,000	335,000
		P20 Program Total	30,000	30,000	35,000	95,000	120,000	120,000	335,000
	P21: Improving the energy mix in a positive eco-balance	SP 21.1: Promotion & Accelerated development of other forms of renewable energy for electrification	20,000	32,000	40,000	92,000	140,000	150,000	382,000
		P21 Program Total	20,000	32,000	40,000	92,000	140,000	150,000	382,000
		AXIS 9 TOTAL	50,000	62,000	75,000	187,000	260,000	270,000	717,000
A10: Improving access to modern energy services	P22: Rural and peri-urban electrification	P 22.1: Promotion and development of sustainable rural electrification	20,000	30,000	50,000	100,000	125,000	150,000	375,000
		P22 Program Total	20,000	30,000	50,000	100,000	125,000	150,000	375,000
	P23: Domestic alternative fuels to wood energy	P 23.1: Promotion of domestic butane fuel substitute for wood energy	10,000	15,000	15,000	40,000	60,000	70,000	170,000
		P23 Program Total	10,000	15,000	15,000	40,000	60,000	70,000	170,000
	P24: Rural access to modern energy	P 24.1: Multifunctional access platform for energy & driving forces	0,000	0,000	1,000	1,000	4,000	4,000	9,000
P24 Program Total		0,000	0,000	1,000	1,000	4,000	4,000	9,000	
		AXIS 10 TOTAL	30,000	45,000	66,000	141,000	189,000	224,000	554,000
A11: Development of a communication and advocacy strategy on climate change	P25: Development of a Regional Communication Strategy on Climate Change and Resilience.	SP 25.1: Development and implementation of a regional communication strategy	0,040	0,000	0,000	0,040	0,000	0,000	
		SP 25.2 Creation and Management of a Regional Portal "Climate Change and Resilience in the Sahel"	0,300	0,300	0,300	0,900	1,500	1,500	
		P25 program Total	0,340	0,300	0,300	0,940	1,500	1,500	0,000
	P26: Implementation of Advocacy	SP 26.1: Launch of a campaign "The Sahel is now!"	0,000	0,000	0,000	0,000	0,000	0,000	
		SP 26.2: Regional Gala of Excellence Held Annually	0,300	0,300	0,300	0,900	1,500	1,500	

AXIS	PROGRAMS	SUBPROGRAMS	CAMEROON							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
		SP 26.3 Creation and management of a regional movement of youth " Sahel Volunteers"	0,000	0,000	0,500	0,500	0,000	0,000		
		P26 program Total	0,300	0,300	0,800	1,400	1,500	1,500	0,000	
		TOTAL AREA 11	0,640	0,600	1,100	2,340	3,000	3,000	0,000	
A12: Capacity reinforcement of communication and advocacy actors	P27: Capacity building at the individual level	27.1 SP: Capacity Building of media professionals	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 27.2: Capacity Building for Advocacy actors (opinion leaders)	0,000	0,100	0,100	0,200	0,500	0,500		
		27.3 SP: Capacity building of civil society actors	0,050	0,100	0,100	0,250	0,500	0,500		
		P27 Program Total	0,100	0,300	0,300	0,700	1,500	1,500	0,000	
	P28: Capacity building Organizationally	SP 28.1: Capacity Building of Press enterprises	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 28.2: Institutional capacity reinforcement (public services and ministry officials related to environmental issues).	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 28.3: Capacity Building of NGOs and Civil Society	0,050	0,100	0,100	0,250	0,500	0,500		
		P28 Program Total	0,150	0,300	0,300	0,750	1,500	1,500	0,000	
			AXIS 12 TOTAL	0,250	0,600	0,600	1,450	3,000	3,000	0,000
	A13: Capacity building of national institutions and frameworks in the area of climate change	P29: Countries capacity building in the field of climate change	SP 29.1: Institutional Capacities reinforcement	0,000	0,000	0,000	0,000	3,200	2,200	5,400
SP 29.2: Strengthening the Capacities of different stakeholder groups in the implementation of Multilateral Environmental Agreements (MEAs)			0,000	0,500	0,500	1,000	3,000	3,000	7,000	
SP 29.3 Institutional capacity building in the field of energy			4,000	6,500	6,600	17,100	0,000	0,000	17,100	
P29 Program Total			4,000	6,500	6,600	18,100	0,000	0,000	17,100	
		AXIS 13 TOTAL	4,000	6,500	6,600	18,100	0,000	0,000	17,100	
Axis 14: Strengthening climate information systems and the synergy between research and development structures	P 30: Production of information and means of popularizing information on climate change (National and regional scales)	SP 30.1. Strengthening of information generation capacity is climate change	0,000	0,500	0,500	1,000	2,000	2,000	5,000	
		SP 30.2. systems development and use of information is CC extension	0,000	0,500	0,500	1,000	1,500	1,500	4,000	
		P30 Program Total	0,000	1,000	1,000	2,000	3,500	3,500	9,000	
	P31: Capacity building of actors in the use of climate change	SP 31.1. Strengthening the Capacities of technical services to to use of information on climate change	0,000	0,500	0,500	1,000	1,000	1,000	3,000	

AXIS	PROGRAMS	SUBPROGRAMS	CAMEROON							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
	information	SP 31.2. Strengthening private sector capacity, civil society and local communities in the use of information on climate change	0,000	0,500	0,500	1,000	1,500	1,500	4,000	
		P31 Program Total	0,000	1,000	1,000	2,000	2,500	2,500	7,000	
		AXIS 14 TOTAL	0,000	2,000	2,000	4,000	6,000	6,000	16,000	
Axis 15: Strengthening capacity to Mobilize financial and technical partnerships	P32: Frames capacity building in the field of negotiations	SP 32.1: Development of multi-year programs of national training frameworks in the field of negotiations				0,000			0,000	
		SP32.2: Implementation of executive training programs in the field of negotiations	1,000	1,000	1,000	3,000			3,000	
		P32 Program Total	1,000	1,000	1,000	3,000	0,000	0,000	3,000	
	P33: Improving access conditions to climate fund	SP33.1: Program for updating and translating NDCs (Nationally Determined Contribution) into programs and operational projects	0,100	0,100	0,100	0,300			0,300	
		SP33.2: Development and implementation of a Capacity Building Program for National Managers to Facilitate Access to Climate Funds	1,000	1,000	1,000	3,000			3,000	
		SP 33.3 Coordination by the Joint Working Group (JWG)	0,000	0,000	0,000	0,000			0,000	
		P33 Program Total	1,100	1,100	1,100	3,300	0,000	0,000	3,300	
	P34: Advocacy for Mobilizing technical and financial resources for regional organizations	34.1 SP: Advocacy of Basin Organizations	0,000	0,000	0,000	0,000			0,000	
		34.2 SP: Advocacy for regional organisms	0,000	0,000	0,000	0,000			0,000	
		P34 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000	
			AXIS 15 TOTAL	2,100	2,100	2,100	6,300	0,000	0,000	6,300
	CIP SR TOTAL			726476	798573	935893	2 463 943	6 527 353	7 498 863	16 846 485

Appendix 4: RPP and CIP SR of Cape Verde (In US \$ Million)

AXIS	PROGRAMS	SUBPROGRAMS	CAP VERDE							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
A1: Restoration and rehabilitation of degraded lands and sensitive ecosystems	P1: Support to national and regional programs for land restoration	SP 1.1: Support to National Plans for land degradation neutrality and Their extension to the Region	0,000	0,500	0,500	1,000	850447	850447	1 701 894	
		SP 1.2: Support for the restoration of agricultural land in AIC's framework	0,000	0,500	0,500	1,000	47544	47544	96088	
		SP 1.3: Development of "Economics of Land Degradation" and the Green Economy	0,000	0,500	0,500	1,000	7,000	7,000	15,000	
		P1 Program Total	0,000	1,500	1,500	3,000	904991	904991	1 812 982	
	P2: Integrated management of sensitive ecosystems significant for building resilience	SP 2.1: Protection and development of humid areas important for Ramsar's Convention	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		SP 2.2: Reconstruction and protection of delicate ecosystems in Sahel's Region (mangrove stands, tiger bush, basins and oases)	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		SP 2.3: Coastal areas Protection	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		P2 Program Total	0,000	1,000	1,000	3,000	265,000	265,000	798,000	
			AXIS 1 TOTAL	0,000	2,500	2,500	6,000	1 169 991	1 169 991	2 610 982
	A2: Carbon sequestration capacities reinforcement	P3: Reconstruction Support of major natural ecosystems for carbon sequestration	SP 3.1: Support of the rehabilitation of classified forests and other significant natural ecosystems	0,000	0,500	0,500	1,000	797031	797031	1 595 062
SP 3.2: Promoting the establishment and management of protected areas and national parks			0,000	0,500	0,500	1,000	797031	797031	1 595 062	
SP 3.3: Fight against deforestation (land clearing) and bushfires			0,000	0,500	0,500	1,000	79703	79703	160406	
P3 Program Total			0,000	1,000	1,000	3,000	1 594 062	1 594 062	3 350 530	
P4: Reforestation plan promotion in the context of carbon sequestration		SP 4.1: Development and implementation of a state program of reforestation in the countries of the Sahel Region	0,000	0,500	0,500	1,000	525,000	525,000	1 051 000	
		SP 4.2: Promotion of operations "Village wood" in local communities and private plantations	0,000	0,500	0,500	1,000	3,500	3,500	8,000	
		P4 Program Total	0,000	1,000	1,000	2,000	528500	528500	1 059 000	
		AXIS 2 TOTAL	0,000	2,000	2,000	5,000	2 122 562	2 122 562	4 409 530	
A3: knowledge Improvement and conservation / water resources management	P5: Support for Strengthening the knowledge of water field	SP 5.1: Research and development on water	0,000	0,000	0,000	0,000	0,000	0,000	0,000	
		SP 5.2: Establishment of databases on urban and village water works in the states	0,000	0,000	0,000	0,000	0,000	0,000	0,000	

AXIS	PROGRAMS	SUBPROGRAMS	CAP VERDE						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
		SP 5.3: Setting up databases on hydrogeology and characteristics of groundwater resources.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P5 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P6: observation and monitoring of Surface water and groundwater resources	SP 6.1: Support to the dissemination of States meteorological observations results	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 6.2: Installation and Support for the Strengthening of water observatories in countries watersheds.	0,000	0,000	0,000	0,000	5,800	0,000	5,800
		SP 6.3: Support to the operationalization of the weather models in the States	0,000	0,000	0,000	0,000	0,000	7,300	7,300
		P6 Total Program	0,000	0,000	0,000	0,000	5,800	7,300	13,100
	P7: preservation and water resource management.	SP 7.1: Support for the results extension of States meteorological observation	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 7.2: Installation and Strengthening Support for the water observatories in countries watersheds.	0,000	0,000	0,780	0,780	0,000	0,000	0,780
		SP 7.3: Support for the operationalization of weather forecast models in the States	0,000	2,000	0,000	2,000	0,000	2,000	4,000
		SP 7.4: Water Resources Mobilization	0,000	0,000	7,900	7,900	2,500	0,000	10,400
		P7 Program Total	0,000	2,000	8,680	10,680	2,500	2,000	15,180
		AXIS 3 TOTAL	0,000	2,000	8,680	10,680	8,300	9,300	28280
A4: Access to drinking water and productive uses	P8: Urban and Rural Water Supply	SP 8.1: Populations Access to Drinking Water and Sanitation	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 8.2: Village Hydraulic Development and Building Resilience Against Climate Change in Rural Areas	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P8 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P9: Hydraulic and pastoral farming	SP 9.1: Ponds and wells Development for livestock	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 9.2. : Rehabilitation or Construction of dams or reservoirs for irrigation Purposes	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P9 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	
		AXIS 4 TOTAL	0,000	0,000	0,000	0,000	0,000	0,000	
A5: Strengthening inter-state cooperation for a synergy of action in water	P10: Cooperation for water resources sharing and management	SP 10.1: Management of transboundary resources.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 10.2: Water Charter between States bordering a basin.	0,000	0,000	0,000	0,000	0,000	0,000	0,000

AXIS	PROGRAMS	SUBPROGRAMS	CAP VERDE						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
resources management		P10 Program Total	0,000						
	P11: Implementation of regional guidelines and policies at the state level.	SP 11.1: Institutional Support	0,000	0,000	0,450	0,450	0,000	0,000	0,450
		SP 11.2: Regional, subregional and national capacity reinforcement.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P11 Program Total	0,000	0,000	0,450	0,450	0,000	0,000	0,450
		AXIS 5 TOTAL	0,000	0,000	0,450	0,450	0,000	0,000	0,450
Priority 6: Reduction of GHG(Greenhouse Gas effects) emissions in the agropastoral sector	P12: Promotion of low carbon agricultural production systems	SP 12.1: Sustainable management of soil fertility	1,410	1,410	1,410	4,229	7,401	9515	21145
		SP 12.2: Sustainable management of irrigation systems	1,410	1,410	1,410	4,229	7,401	9515	21145
		P12 Program Total	2,819	2,819	2,819	8458	14802	19031	42291
	P13: Promotion of low carbon animal production systems	SP 13.1: Promotion of integrated crop-livestock systems	1,410	1,410	1,410	4,229	7,401	9515	21145
		13.2 SP: Securing pastoral production systems	1,410	1,410	1,410	4,229	7,401	9515	21145
		P13 Program Total	2,819	2,819	2,819	8458	14802	19031	42291
		AXIS 6 TOTAL	5.639	5.639	5.639	16916	29603	38062	84581
Priority 7: Promotion of sustainable production systems in the context of adaptation to climate change	P14: Promotion of models for intensification of sustainable agricultural and livestock production	SP 14.1: Promotion of sustainable agricultural intensification models	1,410	1,410	1,410	4,229	7,401	9515	21145
		SP 14.2: Promotion of sustainable livestock production intensification models	1,410	1,410	1,410	4,229	7,401	9515	21145
		P14 Program Total	2,819	2,819	2,819	8458	14802	19031	42291
	P15: Restoration of agricultural and pastoral land	SP 15.1: Restoration of farmland	1,410	1,410	1,410	4,229	7,401	9515	21145
		SP 15.2: Restoring rangelands	1,410	1,410	1,410	4,229	7,401	9515	21145
		P15 Program Total	2,819	2,819	2,819	8458	14802	19031	42291
	P16: Management of agricultural and pastoral risk	SP 16.1: Promotion of insurance on agricultural and animal productions	1,410	1,410	1,410	4,229	7,401	9515	21145
		SP 16.2: Improvement of knowledge and management of risks related to agricultural and livestock productions	1,410	1,410	1,410	4,229	7,401	9515	21145
		P16 program Total	2,819	2,819	2,819	8458	14802	19031	42291
		AXIS 7 TOTAL	8458	8458	8458	25374	44405	57092	126872
Axis 8: Improvement of overall energy efficiency	P17: Energy efficiency of biomass energy chains	SP 17.1: Promotion of Improved wood and charcoal stoves	0090	0090	0090	0,270	0,300	0,230	0,800
		SP 17.2: Promotion of Improved Charcoal Production technology & production of charcoal	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 17.3: Development of alternative energy systems in forest fuel (biogas, biofuels, agroforestry residues, etc.)	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P17 Program Total	0090	0090	0090	0,270	0,300	0,230	0,800

AXIS	PROGRAMS	SUBPROGRAMS	CAP VERDE						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
	P18: Energy efficiency of the modes of production and transmission of electrical energy	18.1 SP: Technological upgrade of energy-consuming thermal power plants	0,000	0,000	0,000	0,000	6,000	5,000	11,000
		18.2 SP: Technological upgrade of transmission networks (transmission & distribution of electrical energy)	0,000	0,000	0,000	0,000	1,500	1,500	3,000
		18.3 SP: Promotion of Low Consumption Lamps (LCL) and public lighting through solar streetlights	2,000	3,000	4,000	9,000	6,000	8,000	23,000
		P18 Program Total	2,000	3,000	4,000	9,000	13,500	14,500	37,000
	P19: Control of energy demand	19.1 SP: Standardization, Certification & Optimization of demand for conventional energy	0,000	0,000	0,000	0,000	1,500	0,500	2,000
	P19 Program Total	0,000	0,000	0,000	0,000	1,500	0,500	2,000	
		AXIS 8 TOTAL	2,090	3,090	4,090	9,270	15,300	15,230	39,800
A9: Renewable Energy Promotion	P20: Accelerated development & Project management of hydropower	SP 20.1: Upgrading the potentialities of hydropower	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P20 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P21: Improving the energy mix in a positive eco-balance	SP 21.1: Promotion & Accelerated development of other forms of renewable energy for electrification	2,000	2,000	3,000	7,000	14,000	17,000	38,000
		P21 Program Total	2,000	2,000	3,000	7,000	14,000	17,000	38,000
		AXIS 9 TOTAL	2,000	2,000	3,000	7,000	14,000	17,000	38,000
A10: Improving access to modern energy services	P22: Rural and peri-urban electrification	P 22.1: Promotion and development of sustainable rural electrification	1,000	1,000	3,000	5,000	4,000	5,000	14,000
		P22 Program Total	1,000	1,000	3,000	5,000	4,000	5,000	14,000
	P23: Domestic alternative fuels to wood energy	P 23.1: Promotion of domestic butane fuel substitute for wood energy	4,000	4,000	6,000	14,000	20,000	20,000	54,000
		P23 Program Total	4,000	4,000	6,000	14,000	20,000	20,000	54,000
	P24: Rural access to modern energy	P 24.1: Multifunctional access platform for energy & driving forces	0,000	0,000	0,000	0,000	0,000	0,000	0,000
P24 Program Total		0,000	0,000	0,000	0,000	0,000	0,000	0,000	
		AXIS 10 TOTAL	5,000	5,000	9,000	19,000	24,000	25,000	68,000
A11: Development of a communication and advocacy strategy on climate change	P25: Development of a Regional Communication Strategy on Climate Change and Resilience.	SP 25.1: Development and implementation of a regional communication strategy	0,040	0,000	0,000	0,040	0,000	0,000	
		SP 25.2 Creation and Management of a Regional Portal "Climate Change and Resilience in the Sahel"	0,300	0,300	0,300	0,900	1,500	1,500	
		P25 program Total	0340	0,300	0,300	0,940	1,500	1,500	0,000
	P26: Implementation of Advocacy	SP 26.1: Launch of a campaign "The Sahel is now!"	0,000	0,000	0,000	0,000	0,000	0,000	
		SP 26.2: Regional Gala of Excellence Held Annually	0,300	0,300	0,300	0,900	1,500	1,500	

AXIS	PROGRAMS	SUBPROGRAMS	CAP VERDE							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
		SP 26.3 Creation and management of a regional movement of youth " Sahel Volunteers"	0,000	0,000	0,000	0,000	0,000	0,000		
		P26 program Total	0,300	0,300	0,300	0,900	1,500	1,500	0,000	
		TOTAL AREA 11	0,640	0,600	0,600	1,840	3,000	3,000	0,000	
A12: Capacity reinforcement of communication and advocacy actors	P27: Capacity building at the individual level	27.1 SP: Capacity Building of media professionals	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 27.2: Capacity Building for Advocacy actors (opinion leaders)	0,000	0,100	0,100	0,200	0,500	0,500		
		27.3 SP: Capacity building of civil society actors	0,050	0,100	0,100	0,250	0,500	0,500		
		P27 Program Total	0,100	0,300	0,300	0,700	1,500	1,500	0,000	
	P28: Capacity building Organizationally	SP 28.1: Capacity Building of Press enterprises	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 28.2: Institutional capacity reinforcement (public services and ministry officials related to environmental issues).	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 28.3: Capacity Building of NGOs and Civil Society	0,050	0,100	0,100	0,250	0,500	0,500		
		P28 Program Total	0,150	0,300	0,300	0,750	1,500	1,500	0,000	
			AXIS 12 TOTAL	0,250	0,600	0,600	1,450	3,000	3,000	0,000
	A13: Capacity building of national institutions and frameworks in the area of climate change	P29: Countries capacity building in the field of climate change	SP 29.1: Institutional Capacities reinforcement	0,000	0,000	0,000	0,000	3,200	2,200	5,400
SP 29.2: Strengthening the Capacities of different stakeholder groups in the implementation of Multilateral Environmental Agreements (MEAs)			0,000	0,500	0,500	1,000	3,000	3,000	7,000	
SP 29.3 Institutional capacity building in the field of energy			1,000	3,000	1,630	5,630	0,000	0,000	5,630	
P29 Program Total			1,000	3,000	1,630	6,630	0,000	0,000	5,630	
		AXIS 13 TOTAL	1,000	3,000	1,630	6,630	0,000	0,000	5,630	
Axis 14: Strengthening climate information systems and the synergy between research and development structures	P 30: Production of information and means of popularizing information on climate change (National and regional scales)	SP 30.1. Strengthening of information generation capacity is climate change	0,000	0,500	0,500	1,000	2,000	2,000	5,000	
		SP 30.2. systems development and use of information is CC extension	0,000	0,500	0,500	1,000	1,500	1,500	4,000	
		P30 Program Total	0,000	1,000	1,000	2,000	3,500	3,500	9,000	
	P31: Capacity building of actors in the use of climate change information	SP 31.1. Strengthening the Capacities of technical services to to use of information on climate change	0,000	0,500	0,500	1,000	1,000	1,000	3,000	

AXIS	PROGRAMS	SUBPROGRAMS	CAP VERDE							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
		SP 31.2. Strengthening private sector capacity, civil society and local communities in the use of information on climate change	0,000	0,500	0,500	1,000	1,500	1,500	4,000	
		P31 Program Total	0,000	1,000	1,000	2,000	2,500	2,500	7,000	
		AXIS 14 TOTAL	0,000	2,000	2,000	4,000	6,000	6,000	16,000	
Axis 15: Strengthening capacity to Mobilize financial and technical partnerships	P32: Frames capacity building in the field of negotiations	SP 32.1: Development of multi-year programs of national training frameworks in the field of negotiations				0,000			0,000	
		SP32.2: Implementation of executive training programs in the field of negotiations	1,000	1,000	1,000	3,000			3,000	
		P32 Program Total	1,000	1,000	1,000	3,000	0,000	0,000	3,000	
	P33: Improving access conditions to climate fund	SP33.1: Program for updating and translating NDCs (Nationally Determined Contribution) into programs and operational projects	0,100	0,100	0,100	0,300			0,300	
		SP33.2: Development and implementation of a Capacity Building Program for National Managers to Facilitate Access to Climate Funds	1,000	1,000	1,000	3,000			3,000	
		SP 33.3 Coordination by the Joint Working Group (JWG)	0,000	0,000	0,000	0,000			0,000	
		P33 Program Total	1,100	1,100	1,100	3,300	0,000	0,000	3,300	
	P34: Advocacy for Mobilizing technical and financial resources for regional organizations	34.1 SP: Advocacy of Basin Organizations	0,000	0,000	0,000	0,000			0,000	
		34.2 SP: Advocacy for regional organisms	0,000	0,000	0,000	0,000			0,000	
		P34 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000	
			AXIS 15 TOTAL	2,100	2,100	2,100	6,300	0,000	0,000	6,300
	CIP SR TOTAL			27177	38987	50747	119911	3 440 162	3 466 237	7 434 425

Appendix 5: RPP and CIP SR of Ivory Coast (in US \$ million)

AXIS	PROGRAMS	SUBPROGRAMS	IVORY COAST							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
A1: Restoration and rehabilitation of degraded lands and sensitive ecosystems	P1: Support to national and regional programs for land restoration	SP 1.1: Support to National Plans for land degradation neutrality and Their extension to the Region	0,000	0,500	0,500	1,000	7.214	7.214	15428	
		SP 1.2: Support for the restoration of agricultural land in AIC's framework	0,000	0,500	0,500	1,000	0403	0403	1,807	
		SP 1.3: Development of "Economics of Land Degradation" and the Green Economy	0,000	0,500	0,500	1,000	7,000	7,000	15,000	
		P1 Program Total	0,000	1,500	1,500	3,000	14617	14617	32235	
	P2: Integrated management of sensitive ecosystems significant for building resilience	SP 2.1: Protection and development of humid areas important for Ramsar's Convention	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		SP 2.2: Reconstruction and protection of delicate ecosystems in Sahel's Region (mangrove stands, tiger bush, basins and oases)	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		SP 2.3: Coastal areas Protection	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		P2 Program Total	0,000	1,000	1,000	3,000	265,000	265,000	798,000	
	AXIS 1 TOTAL			0,000	2,500	2,500	6,000	279617	279617	830235
	A2: Carbon sequestration capacities reinforcement	P3: Reconstruction Support of major natural ecosystems for carbon sequestration	SP 3.1: Support of the rehabilitation of classified forests and other significant natural ecosystems	0,000	0,500	0,500	1,000	6761	6761	14522
SP 3.2: Promoting the establishment and management of protected areas and national parks			0,000	0,500	0,500	1,000	6761	6761	14522	
SP 3.3: Fight against deforestation (land clearing) and bushfires			0,000	0,500	0,500	1,000	0676	0676	2,352	
P3 Program Total			0,000	1,000	1,000	3,000	13,522	13,522	31396	
P4: Reforestation plan promotion in the context of carbon sequestration		SP 4.1: Development and implementation of a state program of reforestation in the countries of the Sahel Region	0,000	0,500	0,500	1,000	525,000	525,000	1 051.000	
		SP 4.2: Promotion of operations "Village wood" in local communities and private plantations	0,000	0,500	0,500	1,000	3,500	3,500	8,000	
		P4 Program Total	0,000	1,000	1,000	2,000	528.500	528.500	1 059.000	
AXIS 2 TOTAL			0,000	2,000	2,000	5,000	542.022	542.022	1 090.396	
A3: knowledge Improvement and conservation / water resources management	P5: Support for Strengthening the knowledge of water field	SP 5.1: Research and development on water	0,000	0,000	0,000	0,000	0,000	0,000	0,000	
		SP 5.2: Establishment of databases on urban and village water works in the states	0,000	0,000	0,000	0,000	0,000	0,000	0,000	

AXIS	PROGRAMS	SUBPROGRAMS	IVORY COAST						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
		SP 5.3: Setting up databases on hydrogeology and characteristics of groundwater resources.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P5 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P6: observation and monitoring of Surface water and groundwater resources	SP 6.1: Support to the dissemination of States meteorological observations results	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 6.2: Installation and Support for the Strengthening of water observatories in countries watersheds.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 6.3: Support to the operationalization of the weather models in the States	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P6 Total Program	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P7: preservation and water resource management.	SP 7.1: Support for the results extension of States meteorological observation	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 7.2: Installation and Strengthening Support for the water observatories in countries watersheds.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 7.3: Support for the operationalization of weather forecast models in the States	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 7.4: Water Resources Mobilization	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P7 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		AXIS 3 TOTAL	0,000	0,000	0,000	0,000	0,000	0,000	0,000
A4: Access to drinking water and productive uses	P8: Urban and Rural Water Supply	SP 8.1: Populations Access to Drinking Water and Sanitation	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 8.2: Village Hydraulic Development and Building Resilience Against Climate Change in Rural Areas	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P8 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P9: Hydraulic and pastoral farming	SP 9.1: Ponds and wells Development for livestock	0,000	0,000	5,050	5,050	0,000	0,000	5,050
SP 9.2. : Rehabilitation or Construction of dams or reservoirs for irrigation Purposes		0,000	1,836	2,901	4,738	603030	47,800	655568	
P9 Program Total		0,000	1,836	7,951	9788	603030	47,800	660618	
		AXIS 4 TOTAL	0,000	1,836	7,951	9788	603030	47,800	660618
A5: Strengthening inter-state cooperation for a synergy of action in water	P10: Cooperation for water resources sharing and management	SP 10.1: Management of transboundary resources.	0,000	0,000	0,000	0,000	1,185	0,000	1,185
		SP 10.2: Water Charter between States bordering a basin.	0,000	0,000	0,000	0,000	0,000	0,000	0,000

AXIS	PROGRAMS	SUBPROGRAMS	IVORY COAST						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
resources management		P10 Program Total	0,000	0,000	0,000	0,000	1,185	0,000	1,185
	P11: Implementation of regional guidelines and policies at the state level.	SP 11.1: Institutional Support	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 11.2: Regional, subregional and national capacity reinforcement.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P11 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		AXIS 5 TOTAL	0,000	0,000	0,000	0,000	1,185	0,000	1,185
Priority 6: Reduction of GHG(Greenhouse Gas effects) emissions in the agropastoral sector	P12: Promotion of low carbon agricultural production systems	SP 12.1: Sustainable management of soil fertility	62.680	62.680	62.680	188.041	329.072	423.093	940.207
		SP 12.2: Sustainable management of irrigation systems	62.680	62.680	62.680	188.041	329.072	423.093	940.207
		P12 Program Total	125.361	125.361	125.361	376.083	658.145	846.186	1 880.414
	P13: Promotion of low carbon animal production systems	SP 13.1: Promotion of integrated crop-livestock systems	62.680	62.680	62.680	188.041	329.072	423.093	940.207
		13.2 SP: Securing pastoral production systems	62.680	62.680	62.680	188.041	329.072	423.093	940.207
		P13 Program Total	125.361	125.361	125.361	376.083	658.145	846.186	1 880.414
		AXIS 6 TOTAL	250.722	250.722	250.722	752.165	1 316.290	1 692.372	3 760.827
Priority 7: Promotion of sustainable production systems in the context of adaptation to climate change	P14: Promotion of models for intensification of sustainable agricultural and livestock production	SP 14.1: Promotion of sustainable agricultural intensification models	62.680	62.680	62.680	188.041	329.072	423.093	940.207
		SP 14.2: Promotion of sustainable livestock production intensification models	62.680	62.680	62.680	188.041	329.072	423.093	940.207
		P14 Program Total	125.361	125.361	125.361	376.083	658.145	846.186	1 880.414
	P15: Restoration of agricultural and pastoral land	SP 15.1: Restoration of farmland	62.680	62.680	62.680	188.041	329.072	423.093	940.207
		SP 15.2: Restoring rangelands	62.680	62.680	62.680	188.041	329.072	423.093	940.207
		P15 Program Total	125.361	125.361	125.361	376.083	658.145	846.186	1 880.414
	P16: Management of agricultural and pastoral risk	SP 16.1: Promotion of insurance on agricultural and animal productions	62.680	62.680	62.680	188.041	329.072	423.093	940.207
		SP 16.2: Improvement of knowledge and management of risks related to agricultural and livestock productions	62.680	62.680	62.680	188.041	329.072	423.093	940.207
		P16 program Total	125.361	125.361	125.361	376.083	658.145	846.186	1 880.414
		AXIS 7 TOTAL	376.083	376.083	376.083	1 128.248	1 974.434	2 538.558	5 641.241
Axis 8: Improvement of overall energy efficiency	P17: Energy efficiency of biomass energy chains	SP 17.1: Promotion of Improved wood and charcoal stoves	2,000	2,000	2,000	6,000	6,700	6,000	18,700
		SP 17.2: Promotion of Improved Charcoal Production technology & production of charcoal	0,900	0,900	1,000	2,800	3,000	2,200	8,000
		SP 17.3: Development of alternative energy systems in forest fuel (biogas, biofuels, agroforestry residues, etc.)	0,000	0,000	0,000	0,000	15,000	30,000	45,000
		P17 Program Total	2,900	2,900	3,000	8,800	24,700	38,200	71.700

AXIS	PROGRAMS	SUBPROGRAMS	IVORY COAST						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
	P18: Energy efficiency of the modes of production and transmission of electrical energy	18.1 SP: Technological upgrade of energy-consuming thermal power plants	0,000	0,000	0,000	0,000	60,000	50,000	110,000
		18.2 SP: Technological upgrade of transmission networks (transmission & distribution of electrical energy)	0,000	0,000	0,000	0,000	60,000	75,000	135,000
		18.3 SP: Promotion of Low Consumption Lamps (LCL) and public lighting through solar streetlights	15,000	25,000	40,000	80,000	85,000	85,000	250,000
		P18 Program Total	15,000	25,000	40,000	80,000	205,000	210,000	495,000
	P19: Control of energy demand	19.1 SP: Standardization, Certification & Optimization of demand for conventional energy	0,000	0,000	0,000	0,000	16,000	14,000	30,000
	P19 Program Total	0,000	0,000	0,000	0,000	16,000	14,000	30,000	
		AXIS 8 TOTAL	17,900	27,900	43,000	88,800	245,700	262,200	596,700
A9: Renewable Energy Promotion	P20: Accelerated development & Project management of hydropower	SP 20.1: Upgrading the potentialities of hydropower	125,000	140,000	175,000	440,000	450,000	450,000	1 340,000
		P20 Program Total	125,000	140,000	175,000	440,000	450,000	450,000	1 340,000
	P21: Improving the energy mix in a positive eco-balance	SP 21.1: Promotion & Accelerated development of other forms of renewable energy for electrification	20,000	30,000	45,000	95,000	120,000	135,000	350,000
		P21 Program Total	20,000	30,000	45,000	95,000	120,000	135,000	350,000
		AXIS 9 TOTAL	145,000	170,000	220,000	535,000	570,000	585,000	1 690,000
A10: Improving access to modern energy services	P22: Rural and peri-urban electrification	P 22.1: Promotion and development of sustainable rural electrification	80,000	80,000	120,000	280,000	350,000	424,000	1 054,000
		P22 Program Total	80,000	80,000	120,000	280,000	350,000	424,000	1 054,000
	P23: Domestic alternative fuels to wood energy	P 23.1: Promotion of domestic butane fuel substitute for wood energy	10,000	15,000	15,000	40,000	60,000	70,000	170,000
		P23 Program Total	10,000	15,000	15,000	40,000	60,000	70,000	170,000
	P24: Rural access to modern energy	P 24.1: Multifunctional access platform for energy & driving forces	0,000	0,000	3,000	3,000	4,000	3,000	10,000
P24 Program Total		0,000	0,000	3,000	3,000	4,000	3,000	10,000	
		AXIS 10 TOTAL	90,000	95,000	138,000	323,000	414,000	497,000	1 234,000
A11: Development of a communication and advocacy strategy on climate change	P25: Development of a Regional Communication Strategy on Climate Change and Resilience.	SP 25.1: Development and implementation of a regional communication strategy	0,040	0,000	0,000	0,040	0,000	0,000	
		SP 25.2 Creation and Management of a Regional Portal "Climate Change and Resilience in the Sahel"	0,300	0,300	0,300	0,900	1,500	1,500	
		P25 program Total	0.340	0,300	0,300	0,940	1,500	1,500	0,000
	P26: Implementation of Advocacy	SP 26.1: Launch of a campaign "The Sahel is now!"	0,000	0,000	0,000	0,000	0,000	0,000	
		SP 26.2: Regional Gala of Excellence Held Annually	0,300	0,300	0,300	0,900	1,500	1,500	

AXIS	PROGRAMS	SUBPROGRAMS	IVORY COAST							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
		SP 26.3 Creation and management of a regional movement of youth " Sahel Volunteers"	0,000	0,000	0,000	0,000	1,250	0,000		
		P26 program Total	0,300	0,300	0,300	0,900	2,750	1,500	0,000	
		TOTAL AREA 11	0,640	0,600	0,600	1,840	4,250	3,000	0,000	
A12: Capacity reinforcement of communication and advocacy actors	P27: Capacity building at the individual level	27.1 SP: Capacity Building of media professionals	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 27.2: Capacity Building for Advocacy actors (opinion leaders)	0,000	0,100	0,100	0,200	0,500	0,500		
		27.3 SP: Capacity building of civil society actors	0,050	0,100	0,100	0,250	0,500	0,500		
		P27 Program Total	0,100	0,300	0,300	0,700	1,500	1,500	0,000	
	P28: Capacity building Organizationally	SP 28.1: Capacity Building of Press enterprises	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 28.2: Institutional capacity reinforcement (public services and ministry officials related to environmental issues).	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 28.3: Capacity Building of NGOs and Civil Society	0,050	0,100	0,100	0,250	0,500	0,500		
		P28 Program Total	0,150	0,300	0,300	0,750	1,500	1,500	0,000	
			AXIS 12 TOTAL	0,250	0,600	0,600	1,450	3,000	3,000	0,000
	A13: Capacity building of national institutions and frameworks in the area of climate change	P29: Countries capacity building in the field of climate change	SP 29.1: Institutional Capacities reinforcement	0,000	0,000	0,000	0,000	3,200	2,200	5,400
SP 29.2: Strengthening the Capacities of different stakeholder groups in the implementation of Multilateral Environmental Agreements (MEAs)			0,000	0,500	0,500	1,000	3,000	3,000	7,000	
SP 29.3 Institutional capacity building in the field of energy			4,000	6,000	6,700	16,700	0,000	0,000	16,700	
P29 Program Total			4,000	6,000	6,700	17,700	0,000	0,000	16,700	
		AXIS 13 TOTAL	4,000	6,000	6,700	17,700	0,000	0,000	16,700	
Axis 14: Strengthening climate information systems and the synergy between research and development structures	P 30: Production of information and means of popularizing information on climate change (National and regional scales)	SP 30.1. Strengthening of information generation capacity is climate change	0,000	0,500	0,500	1,000	2,000	2,000	5,000	
		SP 30.2. systems development and use of information is CC extension	0,000	0,500	0,500	1,000	1,500	1,500	4,000	
		P30 Program Total	0,000	1,000	1,000	2,000	3,500	3,500	9,000	
	P31: Capacity building of actors in the use of climate change	SP 31.1. Strengthening the Capacities of technical services to to use of information on climate change	0,000	0,500	0,500	1,000	1,000	1,000	3,000	

AXIS	PROGRAMS	SUBPROGRAMS	IVORY COAST							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
	information	SP 31.2. Strengthening private sector capacity, civil society and local communities in the use of information on climate change	0,000	0,500	0,500	1,000	1,500	1,500	4,000	
		P31 Program Total	0,000	1,000	1,000	2,000	2,500	2,500	7,000	
		AXIS 14 TOTAL	0,000	2,000	2,000	4,000	6,000	6,000	16,000	
Axis 15: Strengthening capacity to Mobilize financial and technical partnerships	P32: Frames capacity building in the field of negotiations	SP 32.1: Development of multi-year programs of national training frameworks in the field of negotiations				0,000			0,000	
		SP32.2: Implementation of executive training programs in the field of negotiations	1,000	1,000	1,000	3,000			3,000	
		P32 Program Total	1,000	1,000	1,000	3,000	0,000	0,000	3,000	
	P33: Improving access conditions to climate fund	SP33.1: Program for updating and translating NDCs (Nationally Determined Contribution) into programs and operational projects	0,100	0,100	0,100	0,300			0,300	
		SP33.2: Development and implementation of a Capacity Building Program for National Managers to Facilitate Access to Climate Funds	1,000	1,000	1,000	3,000			3,000	
		SP 33.3 Coordination by the Joint Working Group (JWG)	0,000	0,000	0,000	0,000			0,000	
		P33 Program Total	1,100	1,100	1,100	3,300	0,000	0,000	3,300	
	P34: Advocacy for Mobilizing technical and financial resources for regional organizations	34.1 SP: Advocacy of Basin Organizations	0,000	0,000	0,000	0,000			0,000	
		34.2 SP: Advocacy for regional organisms	0,000	0,000	0,000	0,000			0,000	
		P34 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000	
			AXIS 15 TOTAL	2,100	2,100	2,100	6,300	0,000	0,000	6,300
	CIP SR TOTAL			886695	937341	1 052 256	2 879 292	5 959 528	6 456 570	15 544 201

Appendix 6: RPP and CIP SR of Djibouti (in US \$ million)

AXIS	PROGRAMS	SUBPROGRAMS	DJIBOUTI							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
A1: Restoration and rehabilitation of degraded lands and sensitive ecosystems	P1: Support to national and regional programs for land restoration	SP 1.1: Support to National Plans for land degradation neutrality and Their extension to the Region	0,000	0,500	0,500	1,000	20,204	20,204	41408	
		SP 1.2: Support for the restoration of agricultural land in AIC's framework	0,000	0,500	0,500	1,000	1,130	1,130	3,259	
		SP 1.3: Development of "Economics of Land Degradation" and the Green Economy	0,000	0,500	0,500	1,000	7,000	7,000	15,000	
		P1 Program Total	0,000	1,500	1,500	3,000	28333	28333	59667	
	P2: Integrated management of sensitive ecosystems significant for building resilience	SP 2.1: Protection and development of humid areas important for Ramsar's Convention	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		SP 2.2: Reconstruction and protection of delicate ecosystems in Sahel's Region (mangrove stands, tiger bush, basins and oases)	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		SP 2.3: Coastal areas Protection	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		P2 Program Total	0,000	1,000	1,000	3,000	265,000	265,000	798,000	
	AXIS 1 TOTAL			0,000	2,500	2,500	6,000	293333	293333	857667
	A2: Carbon sequestration capacities reinforcement	P3: Reconstruction Support of major natural ecosystems for carbon sequestration	SP 3.1: Support of the rehabilitation of classified forests and other significant natural ecosystems	0,000	0,500	0,500	1,000	18935	18935	38870
SP 3.2: Promoting the establishment and management of protected areas and national parks			0,000	0,500	0,500	1,000	18.935	18.935	38.870	
SP 3.3: Fight against deforestation (land clearing) and bushfires			0,000	0,500	0,500	1,000	1,893	1,893	4,787	
P3 Program Total			0,000	1,000	1,000	3,000	37.870	37.870	82.527	
P4: Reforestation plan promotion in the context of carbon sequestration		SP 4.1: Development and implementation of a state program of reforestation in the countries of the Sahel Region	0,000	0,500	0,500	1,000	525,000	525,000	1 051.000	
		SP 4.2: Promotion of operations "Village wood" in local communities and private plantations	0,000	0,500	0,500	1,000	3,500	3,500	8,000	
		P4 Program Total	0,000	1,000	1,000	2,000	528.500	528.500	1 059.000	
AXIS 2 TOTAL			0,000	2,000	2,000	5,000	566.370	566.370	1 141.527	
A3: knowledge Improvement and conservation / water resources management	P5: Support for Strengthening the knowledge of water field	SP 5.1: Research and development on water	0.370	10,824	10,824	22.018	0,000	0,000	22.018	
		SP 5.2: Establishment of databases on urban and village water works in the states	0,000	0,000	0,000	0,000	0,000	0,000	0,000	

AXIS	PROGRAMS	SUBPROGRAMS	DJIBOUTI						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
		SP 5.3: Setting up databases on hydrogeology and characteristics of groundwater resources.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P5 Program Total	0.370	10,824	10,824	22018	0,000	0,000	22018
	P6: observation and monitoring of Surface water and groundwater resources	SP 6.1: Support to the dissemination of States meteorological observations results	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 6.2: Installation and Support for the Strengthening of water observatories in countries watersheds.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 6.3: Support to the operationalization of the weather models in the States	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P6 Total Program	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P7: preservation and water resource management.	SP 7.1: Support for the results extension of States meteorological observation	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 7.2: Installation and Strengthening Support for the water observatories in countries watersheds.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 7.3: Support for the operationalization of weather forecast models in the States	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 7.4: Water Resources Mobilization	0,000	2,650	7,535	10,185	0,000	2,650	12,835
		P7 Program Total	0,000	2,650	7,535	10,185	0,000	2,650	12,835
		AXIS 3 TOTAL	0.370	13.474	18.359	32.203	0,000	2,650	34.853
A4: Access to drinking water and productive uses	P8: Urban and Rural Water Supply	SP 8.1: Populations Access to Drinking Water and Sanitation	0,000	0,000	0,000	0,000	0,000	70,000	70,000
		SP 8.2: Village Hydraulic Development and Building Resilience Against Climate Change in Rural Areas	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P8 Program Total	0,000	0,000	0,000	0,000	0,000	70,000	70,000
	P9: Hydraulic and pastoral farming	SP 9.1: Ponds and wells Development for livestock	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 9.2. : Rehabilitation or Construction of dams or reservoirs for irrigation Purposes	0,000	0,000	3,300	3,300	8,300	29.218	40.818
P9 Program Total		0,000	0,000	3,300	3,300	8,300	29.218	40.818	
		AXIS 4 TOTAL	0,000	0,000	3,300	3,300	8,300	99.218	110.818
A5: Strengthening inter-state cooperation for a synergy of action in water	P10: Cooperation for water resources sharing and management	SP 10.1: Management of transboundary resources.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 10.2: Water Charter between States bordering a basin.	0,000	0,000	0,000	0,000	0,000	0,000	0,000

AXIS	PROGRAMS	SUBPROGRAMS	DJIBOUTI						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
resources management		P10 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P11: Implementation of regional guidelines and policies at the state level.	SP 11.1: Institutional Support	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 11.2: Regional, subregional and national capacity reinforcement.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P11 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		AXIS 5 TOTAL	0,000	0,000	0,000	0,000	0,000	0,000	
Priority 6: Reduction of GHG(Greenhouse Gas effects) emissions in the agropastoral sector	P12: Promotion of low carbon agricultural production systems	SP 12.1: Sustainable management of soil fertility	2,469	2,469	2,469	7.407	12.962	16.666	37.036
		SP 12.2: Sustainable management of irrigation systems	2,469	2,469	2,469	7.407	12962	16,666	37036
		P12 Program Total	4,938	4,938	4,938	14814	25925	33332	74071
	P13: Promotion of low carbon animal production systems	SP 13.1: Promotion of integrated crop-livestock systems	2,469	2,469	2,469	7.407	12962	16,666	37036
		13.2 SP: Securing pastoral production systems	2,469	2,469	2,469	7.407	12962	16,666	37036
		P13 Program Total	4,938	4,938	4,938	14814	25925	33332	74071
		AXIS 6 TOTAL	9876	9876	9876	29628	51850	66664	148142
Priority 7: Promotion of sustainable production systems in the context of adaptation to climate change	P14: Promotion of models for intensification of sustainable agricultural and livestock production	SP 14.1: Promotion of sustainable agricultural intensification models	2,469	2,469	2,469	7.407	12962	16,666	37036
		SP 14.2: Promotion of sustainable livestock production intensification models	2,469	2,469	2,469	7.407	12962	16,666	37036
		P14 Program Total	4,938	4,938	4,938	14814	25925	33332	74071
	P15: Restoration of agricultural and pastoral land	SP 15.1: Restoration of farmland	2,469	2,469	2,469	7.407	12962	16,666	37036
		SP 15.2: Restoring rangelands	2,469	2,469	2,469	7.407	12962	16,666	37036
		P15 Program Total	4,938	4,938	4,938	14814	25925	33332	74071
	P16: Management of agricultural and pastoral risk	SP 16.1: Promotion of insurance on agricultural and animal productions	2,469	2,469	2,469	7.407	12962	16,666	37036
		SP 16.2: Improvement of knowledge and management of risks related to agricultural and livestock productions	2,469	2,469	2,469	7.407	12962	16,666	37036
		P16 program Total	4,938	4,938	4,938	14814	25925	33332	74071
		AXIS 7 TOTAL	14814	14814	14814	44.443	77775	99.996	222213
Axis 8: Improvement of overall energy efficiency	P17: Energy efficiency of biomass energy chains	SP 17.1: Promotion of Improved wood and charcoal stoves	0,180	0,180	0,180	0,540	0,500	0,460	1,500
		SP 17.2: Promotion of Improved Charcoal Production technology & production of charcoal	0,040	0,050	0,060	0,150	0,130	0,120	0,400
		SP 17.3: Development of alternative energy systems in forest fuel (biogas, biofuels, agroforestry residues, etc.)	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P17 Program Total	0,220	0,230	0,240	0,690	0,630	0,580	1,900

AXIS	PROGRAMS	SUBPROGRAMS	DJIBOUTI						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
	P18: Energy efficiency of the modes of production and transmission of electrical energy	18.1 SP: Technological upgrade of energy-consuming thermal power plants	0,000	0,000	0,000	0,000	3,000	3,500	6,500
		18.2 SP: Technological upgrade of transmission networks (transmission & distribution of electrical energy)	0,000	0,000	0,000	0,000	2,300	1,000	3,300
		18.3 SP: Promotion of Low Consumption Lamps (LCL) and public lighting through solar streetlights	1,000	1,000	2,000	4,000	6,000	8,000	18,000
		P18 Program Total	1,000	1,000	2,000	4,000	11,300	12,500	27,800
	P19: Control of energy demand	19.1 SP: Standardization, Certification & Optimization of demand for conventional energy	0,000	0,000	0,000	0,000	3,000	1,000	4,000
		P19 Program Total	0,000	0,000	0,000	0,000	3,000	1,000	4,000
		AXIS 8 TOTAL	1,220	1,230	2,240	4,690	14,930	14,080	33,700
A9: Renewable Energy Promotion	P20: Accelerated development & Project management of hydropower	SP 20.1: Upgrading the potentialities of hydropower	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P20 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P21: Improving the energy mix in a positive eco-balance	SP 21.1: Promotion & Accelerated development of other forms of renewable energy for electrification	5,000	7,000	10,000	22,000	45,000	50,000	117,000
		P21 Program Total	5,000	7,000	10,000	22,000	45,000	50,000	117,000
		AXIS 9 TOTAL	5,000	7,000	10,000	22,000	45,000	50,000	117,000
A10: Improving access to modern energy services	P22: Rural and peri-urban electrification	P 22.1: Promotion and development of sustainable rural electrification	2,000	2,000	5,000	9,000	10,000	10,000	29,000
		P22 Program Total	2,000	2,000	5,000	9,000	10,000	10,000	29,000
	P23: Domestic alternative fuels to wood energy	P 23.1: Promotion of domestic butane fuel substitute for wood energy	5,000	5,000	12,000	22,000	35,000	35,000	92,000
		P23 Program Total	5,000	5,000	12,000	22,000	35,000	35,000	92,000
	P24: Rural access to modern energy	P 24.1: Multifunctional access platform for energy & driving forces	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P24 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		AXIS 10 TOTAL	7,000	7,000	17,000	31,000	45,000	45,000	121,000
A11: Development of a communication and advocacy strategy on climate change	P25: Development of a Regional Communication Strategy on Climate Change and Resilience.	SP 25.1: Development and implementation of a regional communication strategy	0,040	0,000	0,000	0,040	0,000	0,000	
		SP 25.2 Creation and Management of a Regional Portal "Climate Change and Resilience in the Sahel"	0,300	0,300	0,300	0,900	1,500	1,500	
		P25 program Total	0.340	0,300	0,300	0,940	1,500	1,500	0,000
	P26: Implementation of Advocacy	SP 26.1: Launch of a campaign "The Sahel is now!"	0,000	0,000	0,000	0,000	0,000	0,000	
		SP 26.2: Regional Gala of Excellence Held Annually	0,300	0,300	0,300	0,900	1,500	1,500	

AXIS	PROGRAMS	SUBPROGRAMS	DJIBOUTI							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
		SP 26.3 Creation and management of a regional movement of youth " Sahel Volunteers"	0,000	0,000	0,000	0,000	0,000	1,250		
		P26 program Total	0,300	0,300	0,300	0,900	1,500	2,750	0,000	
		TOTAL AREA 11	0,640	0,600	0,600	1,840	3,000	4,250	0,000	
A12: Capacity reinforcement of communication and advocacy actors	P27: Capacity building at the individual level	27.1 SP: Capacity Building of media professionals	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 27.2: Capacity Building for Advocacy actors (opinion leaders)	0,000	0,100	0,100	0,200	0,500	0,500		
		27.3 SP: Capacity building of civil society actors	0,050	0,100	0,100	0,250	0,500	0,500		
		P27 Program Total	0,100	0,300	0,300	0,700	1,500	1,500	0,000	
	P28: Capacity building Organizationally	SP 28.1: Capacity Building of Press enterprises	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 28.2: Institutional capacity reinforcement (public services and ministry officials related to environmental issues).	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 28.3: Capacity Building of NGOs and Civil Society	0,050	0,100	0,100	0,250	0,500	0,500		
		P28 Program Total	0,150	0,300	0,300	0,750	1,500	1,500	0,000	
			AXIS 12 TOTAL	0,250	0,600	0,600	1,450	3,000	3,000	0,000
	A13: Capacity building of national institutions and frameworks in the area of climate change	P29: Countries capacity building in the field of climate change	SP 29.1: Institutional Capacities reinforcement	0,000	0,000	0,000	0,000	3,200	2,200	5,400
SP 29.2: Strengthening the Capacities of different stakeholder groups in the implementation of Multilateral Environmental Agreements (MEAs)			0,000	0,500	0,500	1,000	3,000	3,000	7,000	
SP 29.3 Institutional capacity building in the field of energy			1,000	3,000	2,650	6,650	0,000	0,000	6,650	
P29 Program Total			1,000	3,000	2,650	7,650	0,000	0,000	6,650	
		AXIS 13 TOTAL	1,000	3,000	2,650	7,650	0,000	0,000	6,650	
Axis 14: Strengthening climate information systems and the synergy between research and development structures	P 30: Production of information and means of popularizing information on climate change (National and regional scales)	SP 30.1. Strengthening of information generation capacity is climate change	0,000	0,500	0,500	1,000	2,000	2,000	5,000	
		SP 30.2. systems development and use of information is CC extension	0,000	0,500	0,500	1,000	1,500	1,500	4,000	
		P30 Program Total	0,000	1,000	1,000	2,000	3,500	3,500	9,000	
	P31: Capacity building of actors in the use of climate change information	SP 31.1. Strengthening the Capacities of technical services to to use of information on climate change	0,000	0,500	0,500	1,000	1,000	1,000	3,000	

AXIS	PROGRAMS	SUBPROGRAMS	DJIBOUTI							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
		SP 31.2. Strengthening private sector capacity, civil society and local communities in the use of information on climate change	0,000	0,500	0,500	1,000	1,500	1,500	4,000	
		P31 Program Total	0,000	1,000	1,000	2,000	2,500	2,500	7,000	
		AXIS 14 TOTAL	0,000	2,000	2,000	4,000	6,000	6,000	16,000	
Axis 15: Strengthening capacity to Mobilize financial and technical partnerships	P32: Frames capacity building in the field of negotiations	SP 32.1: Development of multi-year programs of national training frameworks in the field of negotiations				0,000			0,000	
		SP32.2: Implementation of executive training programs in the field of negotiations	1,000	1,000	1,000	3,000			3,000	
		P32 Program Total	1,000	1,000	1,000	3,000	0,000	0,000	3,000	
	P33: Improving access conditions to climate fund	SP33.1: Program for updating and translating NDCs (Nationally Determined Contribution) into programs and operational projects	0,100	0,100	0,100	0,300			0,300	
		SP33.2: Development and implementation of a Capacity Building Program for National Managers to Facilitate Access to Climate Funds	1,000	1,000	1,000	3,000			3,000	
		SP 33.3 Coordination by the Joint Working Group (JWG)	0,000	0,000	0,000	0,000			0,000	
		P33 Program Total	1,100	1,100	1,100	3,300	0,000	0,000	3,300	
	P34: Advocacy for Mobilizing technical and financial resources for regional organizations	34.1 SP: Advocacy of Basin Organizations	0,000	0,000	0,000	0,000			0,000	
		34.2 SP: Advocacy for regional organisms	0,000	0,000	0,000	0,000			0,000	
		P34 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000	
			AXIS 15 TOTAL	2,100	2,100	2,100	6,300	0,000	0,000	6,300
	CIP SR TOTAL			42.270	66.194	88.039	199.504	1 114.558	1 250.561	2 815.870

Appendix 7: RPP and CIP SR of Eritrea (in US \$ million)

AXIS	PROGRAMS	SUBPROGRAMS	ERITREA							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
A1: Restoration and rehabilitation of degraded lands and sensitive ecosystems	P1: Support to national and regional programs for land restoration	SP 1.1: Support to National Plans for land degradation neutrality and Their extension to the Region	0,000	0,500	0,500	1,000	439.777	439.777	880.553	
		SP 1.2: Support for the restoration of agricultural land in AIC's framework	0,000	0,500	0,500	1,000	24.586	24.586	50.171	
		SP 1.3: Development of "Economics of Land Degradation" and the Green Economy	0,000	0,500	0,500	1,000	7,000	7,000	15,000	
		P1 Program Total	0,000	1,500	1,500	3,000	471.362	471.362	945.725	
	P2: Integrated management of sensitive ecosystems significant for building resilience	SP 2.1: Protection and development of humid areas important for Ramsar's Convention	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		SP 2.2: Reconstruction and protection of delicate ecosystems in Sahel's Region (mangrove stands, tiger bush, basins and oases)	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		SP 2.3: Coastal areas Protection	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		P2 Program Total	0,000	1,000	1,000	3,000	265,000	265,000	798,000	
			AXIS 1 TOTAL	0,000	2,500	2,500	6,000	736.362	736.362	1 743.725
	A2: Carbon sequestration capacities reinforcement	P3: Reconstruction Support of major natural ecosystems for carbon sequestration	SP 3.1: Support of the rehabilitation of classified forests and other significant natural ecosystems	0,000	0,500	0,500	1,000	412.155	412.155	825.309
SP 3.2: Promoting the establishment and management of protected areas and national parks			0,000	0,500	0,500	1,000	412.155	412.155	825.309	
SP 3.3: Fight against deforestation (land clearing) and bushfires			0,000	0,500	0,500	1,000	41.215	41.215	83.431	
P3 Program Total			0,000	1,000	1,000	3,000	824.309	824.309	1 734.050	
P4: Reforestation plan promotion in the context of carbon sequestration		SP 4.1: Development and implementation of a state program of reforestation in the countries of the Sahel Region	0,000	0,500	0,500	1,000	525,000	525,000	1 051.000	
		SP 4.2: Promotion of operations "Village wood" in local communities and private plantations	0,000	0,500	0,500	1,000	3,500	3,500	8,000	
		P4 Program Total	0,000	1,000	1,000	2,000	528.500	528.500	1 059.000	
		AXIS 2 TOTAL	0,000	2,000	2,000	5,000	1 352.809	1 352.809	2 793.050	
A3: knowledge Improvement and conservation / water resources management	P5: Support for Strengthening the knowledge of water field	SP 5.1: Research and development on water	0,000	0,000	0,000	0,000	0,000	0,000	0,000	
		SP 5.2: Establishment of databases on urban and village water works in the states	0,000	0,000	0,000	0,000	0,000	0,000	0,000	

AXIS	PROGRAMS	SUBPROGRAMS	ERITREA						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
		SP 5.3: Setting up databases on hydrogeology and characteristics of groundwater resources.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P5 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P6: observation and monitoring of Surface water and groundwater resources	SP 6.1: Support to the dissemination of States meteorological observations results	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 6.2: Installation and Support for the Strengthening of water observatories in countries watersheds.	0,000	0,000	1,500	1,500	0,000	0,000	1,500
		SP 6.3: Support to the operationalization of the weather models in the States	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P6 Total Program	0,000	0,000	1,500	1,500	0,000	0,000	1,500
	P7: preservation and water resource management.	SP 7.1: Support for the results extension of States meteorological observation	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 7.2: Installation and Strengthening Support for the water observatories in countries watersheds.	0,000	0,002	0,000	0,002	0,000	0,000	0,002
		SP 7.3: Support for the operationalization of weather forecast models in the States	0,000	2,800	0,000	2,800	5,700	2,600	11,100
		SP 7.4: Water Resources Mobilization	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P7 Program Total	0,000	2,802	0,000	2,802	5,700	2,600	11,102
		AXIS 3 TOTAL	0,000	2,802	1,500	4,302	5,700	2,600	12,602
A4: Access to drinking water and productive uses	P8: Urban and Rural Water Supply	SP 8.1: Populations Access to Drinking Water and Sanitation	0,000	0,390	0,000	0,390	0,000	137,600	137,990
		SP 8.2: Village Hydraulic Development and Building Resilience Against Climate Change in Rural Areas	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P8 Program Total	0,000	0,390	0,000	0,390	0,000	137,600	137,990
	P9: Hydraulic and pastoral farming	SP 9.1: Ponds and wells Development for livestock	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 9.2. : Rehabilitation or Construction of dams or reservoirs for irrigation Purposes	0,000	0,000	0,000	0,000	0,000	206,400	206,400
		P9 Program Total	0,000	0,000	0,000	0,000	206,400	206,400	
		AXIS 4 TOTAL	0,000	0,390	0,000	0,390	0,000	344,000	344,390
A5: Strengthening inter-state cooperation for a synergy of action in water	P10: Cooperation for water resources sharing and management	SP 10.1: Management of transboundary resources.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 10.2: Water Charter between States bordering a basin.	0,000	0,000	0,000	0,000	0,000	0,000	0,000

AXIS	PROGRAMS	SUBPROGRAMS	ERITREA						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
resources management		P10 Program Total	0,000						
	P11: Implementation of regional guidelines and policies at the state level.	SP 11.1: Institutional Support	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 11.2: Regional, subregional and national capacity reinforcement.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P11 Program Total	0,000						
		AXIS 5 TOTAL	0,000	0,000	0,000	0,000	0,000	0,000	
Priority 6: Reduction of GHG(Greenhouse Gas effects) emissions in the agropastoral sector	P12: Promotion of low carbon agricultural production systems	SP 12.1: Sustainable management of soil fertility	16.667	16.667	16.667	50,000	87,500	112,500	250,000
		SP 12.2: Sustainable management of irrigation systems	16.667	16.667	16.667	50,000	87,500	112,500	250,000
		P12 Program Total	33,333	33,333	33,333	100,000	175,000	225,000	500,000
	P13: Promotion of low carbon animal production systems	SP 13.1: Promotion of integrated crop-livestock systems	16.667	16.667	16.667	50,000	87,500	112,500	250,000
		13.2 SP: Securing pastoral production systems	16.667	16.667	16.667	50,000	87,500	112,500	250,000
		P13 Program Total	33,333	33,333	33,333	100,000	175,000	225,000	500,000
		AXIS 6 TOTAL	66.667	66.667	66.667	200,000	350,000	450,000	1 000.000
Priority 7: Promotion of sustainable production systems in the context of adaptation to climate change	P14: Promotion of models for intensification of sustainable agricultural and livestock production	SP 14.1: Promotion of sustainable agricultural intensification models	16.667	16.667	16.667	50,000	87,500	112,500	250,000
		SP 14.2: Promotion of sustainable livestock production intensification models	16.667	16.667	16.667	50,000	87,500	112,500	250,000
		P14 Program Total	33,333	33,333	33,333	100,000	175,000	225,000	500,000
	P15: Restoration of agricultural and pastoral land	SP 15.1: Restoration of farmland	16.667	16.667	16.667	50,000	87,500	112,500	250,000
		SP 15.2: Restoring rangelands	16.667	16.667	16.667	50,000	87,500	112,500	250,000
		P15 Program Total	33,333	33,333	33,333	100,000	175,000	225,000	500,000
	P16: Management of agricultural and pastoral risk	SP 16.1: Promotion of insurance on agricultural and animal productions	16.667	16.667	16.667	50,000	87,500	112,500	250,000
		SP 16.2: Improvement of knowledge and management of risks related to agricultural and livestock productions	16.667	16.667	16.667	50,000	87,500	112,500	250,000
		P16 program Total	33,333	33,333	33,333	100,000	175,000	225,000	500,000
		AXIS 7 TOTAL	100,000	100,000	100,000	300,000	525,000	675,000	1 500,000
Axis 8: Improvement of overall energy efficiency	P17: Energy efficiency of biomass energy chains	SP 17.1: Promotion of Improved wood and charcoal stoves	0,500	0,500	0,500	1,500	1,500	1,200	4,200
		SP 17.2: Promotion of Improved Charcoal Production technology & production of charcoal	0,250	0,250	0,300	0,800	1,000	0,700	2,500
		SP 17.3: Development of alternative energy systems in forest fuel (biogas, biofuels, agroforestry residues, etc.)	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P17 Program Total	0,750	0,750	0,800	2,300	2,500	1,900	6,700

AXIS	PROGRAMS	SUBPROGRAMS	ERITREA						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
	P18: Energy efficiency of the modes of production and transmission of electrical energy	18.1 SP: Technological upgrade of energy-consuming thermal power plants	0,000	0,000	0,000	0,000	20,000	15,000	35,000
		18.2 SP: Technological upgrade of transmission networks (transmission & distribution of electrical energy)	0,000	0,000	0,000	0,000	10,000	20,000	30,000
		18.3 SP: Promotion of Low Consumption Lamps (LCL) and public lighting through solar streetlights	1,000	1,000	2,000	4,000	6,000	8,000	18,000
		P18 Program Total	1,000	1,000	2,000	4,000	36,000	43,000	83,000
	P19: Control of energy demand	19.1 SP: Standardization, Certification & Optimization of demand for conventional energy	0,000	0,000	0,000	0,000	2,000	1,000	3,000
		P19 Program Total	0,000	0,000	0,000	0,000	2,000	1,000	3,000
		AXIS 8 TOTAL	1,750	1,750	2,800	6,300	40,500	45,900	92,700
A9: Renewable Energy Promotion	P20: Accelerated development & Project management of hydropower	SP 20.1: Upgrading the potentialities of hydropower	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P20 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P21: Improving the energy mix in a positive eco-balance	SP 21.1: Promotion & Accelerated development of other forms of renewable energy for electrification	5,000	7,000	8,000	20,000	60,000	70,000	150,000
		P21 Program Total	5,000	7,000	8,000	20,000	60,000	70,000	150,000
		AXIS 9 TOTAL	5,000	7,000	8,000	20,000	60,000	70,000	150,000
A10: Improving access to modern energy services	P22: Rural and peri-urban electrification	P 22.1: Promotion and development of sustainable rural electrification	4,000	4,000	10,000	18,000	17,000	18,000	53,000
		P22 Program Total	4,000	4,000	10,000	18,000	17,000	18,000	53,000
	P23: Domestic alternative fuels to wood energy	P 23.1: Promotion of domestic butane fuel substitute for wood energy	2,000	2,000	6,000	10,000	15,000	17,000	42,000
		P23 Program Total	2,000	2,000	6,000	10,000	15,000	17,000	42,000
	P24: Rural access to modern energy	P 24.1: Multifunctional access platform for energy & driving forces	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P24 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		AXIS 10 TOTAL	6,000	6,000	16,000	28,000	32,000	35,000	95,000
A11: Development of a communication and advocacy strategy on climate change	P25: Development of a Regional Communication Strategy on Climate Change and Resilience.	SP 25.1: Development and implementation of a regional communication strategy	0,040	0,000	0,000	0,040	0,000	0,000	
		SP 25.2 Creation and Management of a Regional Portal "Climate Change and Resilience in the Sahel"	0,300	0,300	0,300	0,900	1,500	1,500	
		P25 program Total	0,340	0,300	0,300	0,940	1,500	1,500	0,000
	P26: Implementation of Advocacy	SP 26.1: Launch of a campaign "The Sahel is now!«	0,000	0,000	0,000	0,000	0,000	0,000	
		SP 26.2: Regional Gala of Excellence Held Annually	0,300	0,300	0,300	0,900	1,500	1,500	

AXIS	PROGRAMS	SUBPROGRAMS	ERITREA							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
		SP 26.3 Creation and management of a regional movement of youth " Sahel Volunteers"	0,000	0,000	0,000	0,000	0,000	0,000		
		P26 program Total	0,300	0,300	0,300	0,900	1,500	1,500	0,000	
		TOTAL AREA 11	0,640	0,600	0,600	1,840	3,000	3,000	0,000	
A12: Capacity reinforcement of communication and advocacy actors	P27: Capacity building at the individual level	27.1 SP: Capacity Building of media professionals	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 27.2: Capacity Building for Advocacy actors (opinion leaders)	0,000	0,100	0,100	0,200	0,500	0,500		
		27.3 SP: Capacity building of civil society actors	0,050	0,100	0,100	0,250	0,500	0,500		
		P27 Program Total	0,100	0,300	0,300	0,700	1,500	1,500	0,000	
	P28: Capacity building Organizationally	SP 28.1: Capacity Building of Press enterprises	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 28.2: Institutional capacity reinforcement (public services and ministry officials related to environmental issues).	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 28.3: Capacity Building of NGOs and Civil Society	0,050	0,100	0,100	0,250	0,500	0,500		
		P28 Program Total	0,150	0,300	0,300	0,750	1,500	1,500	0,000	
			AXIS 12 TOTAL	0,250	0,600	0,600	1,450	3,000	3,000	0,000
	A13: Capacity building of national institutions and frameworks in the area of climate change	P29: Countries capacity building in the field of climate change	SP 29.1: Institutional Capacities reinforcement	0,000	0,000	0,000	0,000	3,200	2,200	5,400
SP 29.2: Strengthening the Capacities of different stakeholder groups in the implementation of Multilateral Environmental Agreements (MEAs)			0,000	0,500	0,500	1,000	3,000	3,000	7,000	
SP 29.3 Institutional capacity building in the field of energy			2,000	3,000	1,870	6,870	0,000	0,000	6,870	
P29 Program Total			2,000	3,000	1,870	7,870	0,000	0,000	6,870	
		AXIS 13 TOTAL	2,000	3,000	1,870	7,870	0,000	0,000	6,870	
Axis 14: Strengthening climate information systems and the synergy between research and development structures	P 30: Production of information and means of popularizing information on climate change (National and regional scales)	SP 30.1. Strengthening of information generation capacity is climate change	0,000	0,500	0,500	1,000	2,000	2,000	5,000	
		SP 30.2. systems development and use of information is CC extension	0,000	0,500	0,500	1,000	1,500	1,500	4,000	
		P30 Program Total	0,000	1,000	1,000	2,000	3,500	3,500	9,000	
	P31: Capacity building of actors in the use of climate change	SP 31.1. Strengthening the Capacities of technical services to to use of information on climate change	0,000	0,500	0,500	1,000	1,000	1,000	3,000	

AXIS	PROGRAMS	SUBPROGRAMS	ERITREA						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
	information	SP 31.2. Strengthening private sector capacity, civil society and local communities in the use of information on climate change	0,000	0,500	0,500	1,000	1,500	1,500	4,000
		P31 Program Total	0,000	1,000	1,000	2,000	2,500	2,500	7,000
		AXIS 14 TOTAL	0,000	2,000	2,000	4,000	6,000	6,000	16,000
Axis 15: Strengthening capacity to Mobilize financial and technical partnerships	P32: Frames capacity building in the field of negotiations	SP 32.1: Development of multi-year programs of national training frameworks in the field of negotiations				0,000			0,000
		SP32.2: Implementation of executive training programs in the field of negotiations	1,000	1,000	1,000	3,000			3,000
		P32 Program Total	1,000	1,000	1,000	3,000	0,000	0,000	3,000
	P33: Improving access conditions to climate fund	SP33.1: Program for updating and translating NDCs (Nationally Determined Contribution) into programs and operational projects	0,100	0,100	0,100	0,300			0,300
		SP33.2: Development and implementation of a Capacity Building Program for National Managers to Facilitate Access to Climate Funds	1,000	1,000	1,000	3,000			3,000
		SP 33.3 Coordination by the Joint Working Group (JWG)	0,000	0,000	0,000	0,000			0,000
		P33 Program Total	1,100	1,100	1,100	3,300	0,000	0,000	3,300
	P34: Advocacy for Mobilizing technical and financial resources for regional organizations	34.1 SP: Advocacy of Basin Organizations	0,000	0,000	0,000	0,000			0,000
		34.2 SP: Advocacy for regional organisms	0,000	0,000	0,000	0,000			0,000
		P34 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
			AXIS 15 TOTAL	2,100	2,100	2,100	6,300	0,000	0,000
CIP SR TOTAL			184.407	197.409	206.637	591.452	3 114.372	3 723.672	7 760.636

Appendix 8: RPP and CIP SR of Ethiopia (in US \$ million)

AXIS	PROGRAMS	SUBPROGRAMS	ETHIOPIA							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
A1: Restoration and rehabilitation of degraded lands and sensitive ecosystems	P1: Support to national and regional programs for land restoration	SP 1.1: Support to National Plans for land degradation neutrality and Their extension to the Region	0,000	0,500	0,500	1,000	41.499	41.499	83.998	
		SP 1.2: Support for the restoration of agricultural land in AIC"s framework	0,000	0,500	0,500	1,000	2,320	2,320	5,640	
		SP 1.3: Development of "Economics of Land Degradation" and the Green Economy	0,000	0,500	0,500	1,000	7,000	7,000	15,000	
		P1 Program Total	0,000	1,500	1,500	3,000	50.819	50.819	104.638	
	P2: Integrated management of sensitive ecosystems significant for building resilience	SP 2.1: Protection and development of humid areas important for Ramsar's Convention	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		SP 2.2: Reconstruction and protection of delicate ecosystems in Sahel's Region (mangrove stands, tiger bush, basins and oases)	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		SP 2.3: Coastal areas Protection	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		P2 Program Total	0,000	1,000	1,000	3,000	265,000	265,000	798,000	
			AXIS 1 TOTAL	0,000	2,500	2,500	6,000	315.819	315.819	902.638
	A2: Carbon sequestration capacities reinforcement	P3: Reconstruction Support of major natural ecosystems for carbon sequestration	SP 3.1: Support of the rehabilitation of classified forests and other significant natural ecosystems	0,000	0,500	0,500	1,000	38.892	38.892	78.785
SP 3.2: Promoting the establishment and management of protected areas and national parks			0,000	0,500	0,500	1,000	38892	38892	78785	
SP 3.3: Fight against deforestation (land clearing) and bushfires			0,000	0,500	0,500	1,000	3,889	3,889	8778	
P3 Program Total			0,000	1,000	1,000	3,000	77785	77785	166348	
P4: Reforestation plan promotion in the context of carbon sequestration		SP 4.1: Development and implementation of a state program of reforestation in the countries of the Sahel Region	0,000	0,500	0,500	1,000	525,000	525,000	1 051 000	
		SP 4.2: Promotion of operations "Village wood" in local communities and private plantations	0,000	0,500	0,500	1,000	3,500	3,500	8,000	
		P4 Program Total	0,000	1,000	1,000	2,000	528500	528500	1 059 000	
		AXIS 2 TOTAL	0,000	2,000	2,000	5,000	606285	606285	1 225 348	
A3: knowledge Improvement and conservation / water resources management	P5: Support for Strengthening the knowledge of water field	SP 5.1: Research and development on water	0,000	0,000	0,000	0,000	0,000	0,000	0,000	
		SP 5.2: Establishment of databases on urban and village water works in the states	0,000	0,000	0,000	0,000	0,000	0,000	0,000	

AXIS	PROGRAMS	SUBPROGRAMS	ETHIOPIA						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
		SP 5.3: Setting up databases on hydrogeology and characteristics of groundwater resources.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P5 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P6: observation and monitoring of Surface water and groundwater resources	SP 6.1: Support to the dissemination of States meteorological observations results	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 6.2: Installation and Support for the Strengthening of water observatories in countries watersheds.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 6.3: Support to the operationalization of the weather models in the States	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P6 Total Program	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P7: preservation and water resource management.	SP 7.1: Support for the results extension of States meteorological observation	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 7.2: Installation and Strengthening Support for the water observatories in countries watersheds.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 7.3: Support for the operationalization of weather forecast models in the States	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 7.4: Water Resources Mobilization	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P7 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		AXIS 3 TOTAL	0,000	0,000	0,000	0,000	0,000	0,000	0,000
A4: Access to drinking water and productive uses	P8: Urban and Rural Water Supply	SP 8.1: Populations Access to Drinking Water and Sanitation	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 8.2: Village Hydraulic Development and Building Resilience Against Climate Change in Rural Areas	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P8 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P9: Hydraulic and pastoral farming	SP 9.1: Ponds and wells Development for livestock	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 9.2: Rehabilitation or Construction of dams or reservoirs for irrigation Purposes	0,000	0,000	30,000	30,000	350,000	350,000	730,000
		P9 Program Total	0,000	0,000	30,000	30,000	350,000	350,000	730,000
		AXIS 4 TOTAL	0,000	0,000	30,000	30,000	350,000	350,000	730,000
A5: Strengthening inter-state	P10: Cooperation for water resources sharing	SP 10.1: Management of transboundary resources.	0,000	0,000	0,000	0,000	0,000	0,000	0,000

AXIS	PROGRAMS	SUBPROGRAMS	ETHIOPIA						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
cooperation for a synergy of action in water resources management	and management	SP 10.2: Water Charter between States bordering a basin.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P10 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P11: Implementation of regional guidelines and policies at the state level.	SP 11.1: Institutional Support	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 11.2: Regional, subregional and national capacity reinforcement.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P11 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		AXIS 5 TOTAL	0,000	0,000	0,000	0,000	0,000	0,000	0,000
Priority 6: Reduction of GHG(Greenhouse Gas effects) emissions in the agropastoral sector	P12: Promotion of low carbon agricultural production systems	SP 12.1: Sustainable management of soil fertility	270.790	270.790	270.790	812.371	1 421.649	1 827.834	4 061.853
		SP 12.2: Sustainable management of irrigation systems	270.790	270.790	270.790	812.371	1 421.649	1 827.834	4 061.853
		P12 Program Total	541.580	541.580	541.580	1 624.741	2 843.297	3 655.668	8 123.706
	P13: Promotion of low carbon animal production systems	SP 13.1: Promotion of integrated crop-livestock systems	270.790	270.790	270.790	812.371	1 421.649	1 827.834	4 061.853
		13.2 SP: Securing pastoral production systems	270.790	270.790	270.790	812.371	1 421.649	1 827.834	4 061.853
		P13 Program Total	541.580	541.580	541.580	1 624.741	2 843.297	3 655.668	8 123.706
			AXIS 6 TOTAL	1 083.161	1 083.161	1 083.161	3 249.482	5 686.594	7 311.335
Priority 7: Promotion of sustainable production systems in the context of adaptation to climate change	P14: Promotion of models for intensification of sustainable agricultural and livestock production	SP 14.1: Promotion of sustainable agricultural intensification models	270.790	270.790	270.790	812.371	1 421.649	1 827.834	4 061.853
		SP 14.2: Promotion of sustainable livestock production intensification models	270.790	270.790	270.790	812.371	1 421.649	1 827.834	4 061.853
		P14 Program Total	541.580	541.580	541.580	1 624.741	2 843.297	3 655.668	8 123.706
	P15: Restoration of agricultural and pastoral land	SP 15.1: Restoration of farmland	270.790	270.790	270.790	812.371	1 421.649	1 827.834	4 061.853
		SP 15.2: Restoring rangelands	270.790	270.790	270.790	812.371	1 421.649	1 827.834	4 061.853
		P15 Program Total	541.580	541.580	541.580	1 624.741	2 843.297	3 655.668	8 123.706
	P16: Management of agricultural and pastoral risk	SP 16.1: Promotion of insurance on agricultural and animal productions	270.790	270.790	270.790	812.371	1 421.649	1 827.834	4 061.853
		SP 16.2: Improvement of knowledge and management of risks related to agricultural and livestock productions	270.790	270.790	270.790	812.371	1 421.649	1 827.834	4 061.853
		P16 program Total	541.580	541.580	541.580	1 624.741	2 843.297	3 655.668	8 123.706
			AXIS 7 TOTAL	1 624.741	1 624.741	1 624.741	4 874.224	8 529.891	10 967.003
Axis 8: Improvement of overall energy efficiency	P17: Energy efficiency of biomass energy chains	SP 17.1: Promotion of Improved wood and charcoal stoves	9,000	9,000	9,000	27,000	27,000	24,000	78,000
		SP 17.2: Promotion of Improved Charcoal Production technology & production of charcoal	2,000	2,500	3,000	7,500	7,000	5,500	20,000

AXIS	PROGRAMS	SUBPROGRAMS	ETHIOPIA						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
		SP 17.3: Development of alternative energy systems in forest fuel (biogas, biofuels, agroforestry residues, etc.)	0,000	0,000	0,000	0,000	35,000	45,000	80,000
		P17 Program Total	11,000	11,500	12,000	34,500	69,000	74,500	178,000
	P18: Energy efficiency of the modes of production and transmission of electrical energy	18.1 SP: Technological upgrade of energy-consuming thermal power plants	0,000	0,000	0,000	0,000	390,000	400,000	790,000
		18.2 SP: Technological upgrade of transmission networks (transmission & distribution of electrical energy)	0,000	0,000	0,000	0,000	270,000	270,000	540,000
		18.3 SP: Promotion of Low Consumption Lamps (LCL) and public lighting through solar streetlights	30,000	35,000	45,000	110,000	90,000	90,000	290,000
		P18 Program Total	30,000	35,000	45,000	110,000	750,000	760,000	1 620,000
	P19: Control of energy demand	19.1 SP: Standardization, Certification & Optimization of demand for conventional energy	0,000	0,000	0,000	0,000	23,000	15,000	38,000
		P19 Program Total	0,000	0,000	0,000	0,000	23,000	15,000	38,000
		AXIS 8 TOTAL	41,000	46,500	57,000	144,500	842,000	849,500	1 836,000
A9: Renewable Energy Promotion	P20: Accelerated development & Project management of hydropower	SP 20.1: Upgrading the potentialities of hydropower	170,000	170,000	170,000	510,000	530,000	530,000	1 570,000
		P20 Program Total	170,000	170,000	170,000	510,000	530,000	530,000	1 570,000
	P21: Improving the energy mix in a positive eco-balance	SP 21.1: Promotion & Accelerated development of other forms of renewable energy for electrification	20,000	30,000	60,000	110,000	600,000	800,000	1 510,000
		P21 Program Total	20,000	30,000	60,000	110,000	600,000	800,000	1 510,000
		AXIS 9 TOTAL	190,000	200,000	230,000	620,000	1 130,000	1 330,000	3 080,000
A10: Improving access to modern energy services	P22: Rural and peri-urban electrification	P 22.1: Promotion and development of sustainable rural electrification	20,000	25,000	75,000	120,000	600,000	800,000	1 520,000
		P22 Program Total	20,000	25,000	75,000	120,000	600,000	800,000	1 520,000
	P23: Domestic alternative fuels to wood energy	P 23.1: Promotion of domestic butane fuel substitute for wood energy	30,000	35,000	57,000	122,000	150,000	150,000	422,000
		P23 Program Total	30,000	35,000	57,000	122,000	150,000	150,000	422,000
	P24: Rural access to modern energy	P 24.1: Multifunctional access platform for energy & driving forces	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P24 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		AXIS 10 TOTAL	50,000	60,000	132,000	242,000	750,000	950,000	1 942,000
A11: Development of a communication	P25: Development of a Regional	SP 25.1: Development and implementation of a regional communication strategy	0,040	0,000	0,000	0,040	0,000	0,000	

AXIS	PROGRAMS	SUBPROGRAMS	ETHIOPIA							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
and advocacy strategy on climate change	Communication Strategy on Climate Change and Resilience.	SP 25.2 Creation and Management of a Regional Portal "Climate Change and Resilience in the Sahel"	0,300	0,300	0,300	0,900	1,500	1,500		
		P25 program Total	0,340	0,300	0,300	0,940	1,500	1,500	0,000	
	P26: Implementation of Advocacy	SP 26.1: Launch of a campaign "The Sahel is now!»	0,000	0,000	0,000	0,000	0,000	0,000		
		SP 26.2: Regional Gala of Excellence Held Annually	0,300	0,300	0,300	0,900	1,500	1,500		
		SP 26.3 Creation and management of a regional movement of youth " Sahel Volunteers"	0,000	0,250	0,000	0,250	0,000	0,000		
	P26 program Total	0,300	0,550	0,300	1,150	1,500	1,500	0,000		
		TOTAL AREA 11	0,640	0,850	0,600	2,090	3,000	3,000	0,000	
A12: Capacity reinforcement of communication and advocacy actors	P27: Capacity building at the individual level	27.1 SP: Capacity Building of media professionals	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 27.2: Capacity Building for Advocacy actors (opinion leaders)	0,000	0,100	0,100	0,200	0,500	0,500		
		27.3 SP: Capacity building of civil society actors	0,050	0,100	0,100	0,250	0,500	0,500		
		P27 Program Total	0,100	0,300	0,300	0,700	1,500	1,500	0,000	
	P28: Capacity building Organizationally	SP 28.1: Capacity Building of Press enterprises	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 28.2: Institutional capacity reinforcement (public services and ministry officials related to environmental issues).	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 28.3: Capacity Building of NGOs and Civil Society	0,050	0,100	0,100	0,250	0,500	0,500		
		P28 Program Total	0,150	0,300	0,300	0,750	1,500	1,500	0,000	
			AXIS 12 TOTAL	0,250	0,600	0,600	1,450	3,000	3,000	0,000
	A13: Capacity building of national institutions and frameworks in the area of climate change	P29: Countries capacity building in the field of climate change	SP 29.1: Institutional Capacities reinforcement	0,000	0,000	0,000	0,000	3,200	2,200	5,400
SP 29.2: Strengthening the Capacities of different stakeholder groups in the implementation of Multilateral Environmental Agreements (MEAs)			0,000	0,500	0,500	1,000	3,000	3,000	7,000	
SP 29.3 Institutional capacity building in the field of energy			4,000	7,000	11,500	22,500	0,000	0,000	22,500	
P29 Program Total			4,000	7,000	11,500	23,500	0,000	0,000	22,500	
		AXIS 13 TOTAL	4,000	7,000	11,500	23,500	0,000	0,000	22,500	

AXIS	PROGRAMS	SUBPROGRAMS	ETHIOPIA						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
Axis 14: Strengthening climate information systems and the synergy between research and development structures	P 30: Production of information and means of popularizing information on climate change (National and regional scales)	SP 30.1. Strengthening of information generation capacity is climate change	0,000	0,500	0,500	1,000	2,000	2,000	5,000
		SP 30.2. systems development and use of information is CC extension	0,000	0,500	0,500	1,000	1,500	1,500	4,000
		P30 Program Total	0,000	1,000	1,000	2,000	3,500	3,500	9,000
	P31: Capacity building of actors in the use of climate change information	SP 31.1. Strengthening the Capacities of technical services to to use of information on climate change	0,000	0,500	0,500	1,000	1,000	1,000	3,000
		SP 31.2. Strengthening private sector capacity, civil society and local communities in the use of information on climate change	0,000	0,500	0,500	1,000	1,500	1,500	4,000
		P31 Program Total	0,000	1,000	1,000	2,000	2,500	2,500	7,000
			AXIS 14 TOTAL	0,000	2,000	2,000	4,000	6,000	6,000
Axis 15: Strengthening capacity to Mobilize financial and technical partnerships	P32: Frames capacity building in the field of negotiations	SP 32.1: Development of multi-year programs of national training frameworks in the field of negotiations				0,000			0,000
		SP32.2: Implementation of executive training programs in the field of negotiations				0,000			0,000
		P32 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P33: Improving access conditions to climate fund	SP33.1: Program for updating and translating NDCs (Nationally Determined Contribution) into programs and operational projects	0,100	0,100	0,100	0,300			0,300
		SP33.2: Development and implementation of a Capacity Building Program for National Managers to Facilitate Access to Climate Funds	1,000	1,000	1,000	3,000			3,000
		SP 33.3 Coordination by the Joint Working Group (JWG)	0,000	0,000	0,000	0,000			0,000
		P33 Program Total	1,100	1,100	1,100	3,300	0,000	0,000	3,300
	P34: Advocacy for Mobilizing technical and financial resources for regional organizations	34.1 SP: Advocacy of Basin Organizations	0,000	0,000	0,000	0,000			0,000
		34.2 SP: Advocacy for regional organisms	0,000	0,000	0,000	0,000			0,000
		P34 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		AXIS 15 TOTAL	1,100	1,100	1,100	3,300	0,000	0,000	3,300
CIP SR TOTAL			2 994.892	3 030.452	3 177.202	9 205.546	18 222.589	22 691.942	50 376.316

Appendix 9: RPP and CIP SR of Gambia (in US \$ million)

AXIS	PROGRAMS	SUBPROGRAMS	GAMBIA							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
A1: Restoration and rehabilitation of degraded lands and sensitive ecosystems	P1: Support to national and regional programs for land restoration	SP 1.1: Support to National Plans for land degradation neutrality and Their extension to the Region	0,000	0,500	0,500	1,000	1 974.780	1 974.780	3 950.560	
		SP 1.2: Support for the restoration of agricultural land in AIC's framework	0,000	0,500	0,500	1,000	110.400	110.400	221.800	
		SP 1.3: Development of "Economics of Land Degradation" and the Green Economy	0,000	0,500	0,500	1,000	7,000	7,000	15,000	
		P1 Program Total	0,000	1,500	1,500	3,000	2 092.180	2 092.180	4 187.360	
	P2: Integrated management of sensitive ecosystems significant for building resilience	SP 2.1: Protection and development of humid areas important for Ramsar's Convention	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		SP 2.2: Reconstruction and protection of delicate ecosystems in Sahel's Region (mangrove stands, tiger bush, basins and oases)	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		SP 2.3: Coastal areas Protection	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		P2 Program Total	0,000	1,000	1,000	3,000	265,000	265,000	798,000	
			AXIS 1 TOTAL	0,000	2,500	2,500	6,000	2 357.180	2 357.180	4 985.360
	A2: Carbon sequestration capacities reinforcement	P3: Reconstruction Support of major natural ecosystems for carbon sequestration	SP 3.1: Support of the rehabilitation of classified forests and other significant natural ecosystems	0,000	0,500	0,500	1,000	1 850.746	1 850.746	3 702.491
SP 3.2: Promoting the establishment and management of protected areas and national parks			0,000	0,500	0,500	1,000	1 850.746	1 850.746	3 702.491	
SP 3.3: Fight against deforestation (land clearing) and bushfires			0,000	0,500	0,500	1,000	185.075	185.075	371.149	
P3 Program Total			0,000	1,000	1,000	3,000	3 701.491	3 701.491	7 776.132	
P4: Reforestation plan promotion in the context of carbon sequestration		SP 4.1: Development and implementation of a state program of reforestation in the countries of the Sahel Region	0,000	0,500	0,500	1,000	525,000	525,000	1 051.000	
		SP 4.2: Promotion of operations "Village wood" in local communities and private plantations	0,000	0,500	0,500	1,000	3,500	3,500	8,000	
		P4 Program Total	0,000	1,000	1,000	2,000	528.500	528.500	1 059.000	
		AXIS 2 TOTAL	0,000	2,000	2,000	5,000	4 229.991	4 229.991	8 835.132	
A3: knowledge Improvement and conservation / water resources management	P5: Support for Strengthening the knowledge of water field	SP 5.1: Research and development on water	0,000	0,000	0,000	0,000	0,000	0,000	0,000	
		SP 5.2: Establishment of databases on urban and village water works in the states	0,000	0,000	0,000	0,000	0,000	0,000	0,000	

AXIS	PROGRAMS	SUBPROGRAMS	GAMBIA						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
		SP 5.3: Setting up databases on hydrogeology and characteristics of groundwater resources.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P5 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P6: observation and monitoring of Surface water and groundwater resources	SP 6.1: Support to the dissemination of States meteorological observations results	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 6.2: Installation and Support for the Strengthening of water observatories in countries watersheds.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 6.3: Support to the operationalization of the weather models in the States	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P6 Total Program	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P7: preservation and water resource management.	SP 7.1: Support for the results extension of States meteorological observation	0,000	0.242	0.242	0.484	0.242	0,000	0.726
		SP 7.2: Installation and Strengthening Support for the water observatories in countries watersheds.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 7.3: Support for the operationalization of weather forecast models in the States	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 7.4: Water Resources Mobilization	0,000	0,000	0,000	0,000	0,120	0,000	0,120
		P7 Program Total	0,000	0.242	0.242	0.484	0.362	0,000	0.846
		AXIS 3 TOTAL	0,000	0.242	0.242	0.484	0.362	0,000	0.846
A4: Access to drinking water and productive uses	P8: Urban and Rural Water Supply	SP 8.1: Populations Access to Drinking Water and Sanitation	0,000	50,000	0,000	50,000	0,000	50,000	100,000
		SP 8.2: Village Hydraulic Development and Building Resilience Against Climate Change in Rural Areas	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P8 Program Total	0,000	50,000	0,000	50,000	0,000	50,000	100,000
	P9: Hydraulic and pastoral farming	SP 9.1: Ponds and wells Development for livestock	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 9.2: Rehabilitation or Construction of dams or reservoirs for irrigation Purposes	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P9 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	
		AXIS 4 TOTAL	0,000	50,000	0,000	50,000	0,000	50,000	100,000
A5: Strengthening inter-state cooperation for a synergy of action in water	P10: Cooperation for water resources sharing and management	SP 10.1: Management of transboundary resources.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 10.2: Water Charter between States bordering a basin.	0,000	0,000	0,000	0,000	0,000	0,000	0,000

AXIS	PROGRAMS	SUBPROGRAMS	GAMBIA						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
resources management		P10 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P11: Implementation of regional guidelines and policies at the state level.	SP 11.1: Institutional Support	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 11.2: Regional, subregional and national capacity reinforcement.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P11 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		AXIS 5 TOTAL	0,000	0,000	0,000	0,000	0,000	0,000	
Priority 6: Reduction of GHG(Greenhouse Gas effects) emissions in the agropastoral sector	P12: Promotion of low carbon agricultural production systems	SP 12.1: Sustainable management of soil fertility	5,419	5,419	5,419	16.258	28.452	36.581	81.292
		SP 12.2: Sustainable management of irrigation systems	5,419	5,419	5,419	16.258	28.452	36.581	81.292
		P12 Program Total	10.839	10.839	10.839	32.517	56.904	73.163	162.584
	P13: Promotion of low carbon animal production systems	SP 13.1: Promotion of integrated crop-livestock systems	5,419	5,419	5,419	16.258	28.452	36.581	81.292
		13.2 SP: Securing pastoral production systems	5,419	5,419	5,419	16.258	28.452	36.581	81.292
		P13 Program Total	10.839	10.839	10.839	32.517	56.904	73.163	162.584
		AXIS 6 TOTAL	21.678	21.678	21.678	65.034	113.809	146.326	325.168
Priority 7: Promotion of sustainable production systems in the context of adaptation to climate change	P14: Promotion of models for intensification of sustainable agricultural and livestock production	SP 14.1: Promotion of sustainable agricultural intensification models	5,419	5,419	5,419	16.258	28.452	36.581	81.292
		SP 14.2: Promotion of sustainable livestock production intensification models	5,419	5,419	5,419	16.258	28.452	36.581	81.292
		P14 Program Total	10.839	10.839	10.839	32.517	56.904	73.163	162.584
	P15: Restoration of agricultural and pastoral land	SP 15.1: Restoration of farmland	5,419	5,419	5,419	16.258	28.452	36.581	81.292
		SP 15.2: Restoring rangelands	5,419	5,419	5,419	16.258	28.452	36.581	81.292
		P15 Program Total	10.839	10.839	10.839	32.517	56.904	73.163	162.584
	P16: Management of agricultural and pastoral risk	SP 16.1: Promotion of insurance on agricultural and animal productions	5,419	5,419	5,419	16.258	28.452	36.581	81.292
		SP 16.2: Improvement of knowledge and management of risks related to agricultural and livestock productions	5,419	5,419	5,419	16.258	28.452	36.581	81.292
		P16 program Total	10.839	10.839	10.839	32.517	56.904	73.163	162.584
		AXIS 7 TOTAL	32.517	32.517	32.517	97.550	170.713	219.489	487.752
Axis 8: Improvement of overall energy efficiency	P17: Energy efficiency of biomass energy chains	SP 17.1: Promotion of Improved wood and charcoal stoves	0,400	0,400	0,400	1,200	1,300	1,000	3,500
		SP 17.2: Promotion of Improved Charcoal Production technology & production of charcoal	0,100	0,150	0,200	0,450	0,300	0,250	1,000
		SP 17.3: Development of alternative energy systems in forest fuel (biogas, biofuels, agroforestry residues, etc.)	0,000	0,000	0,000	0,000	0,600	1,400	2,000
		P17 Program Total	0,500	0,550	0,600	1,650	2,200	2,650	6,500

AXIS	PROGRAMS	SUBPROGRAMS	GAMBIA						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
	P18: Energy efficiency of the modes of production and transmission of electrical energy	18.1 SP: Technological upgrade of energy-consuming thermal power plants	0,000	0,000	0,000	0,000	11,000	12,000	23,000
		18.2 SP: Technological upgrade of transmission networks (transmission & distribution of electrical energy)	0,000	0,000	0,000	0,000	3,500	4,000	7,500
		18.3 SP: Promotion of Low Consumption Lamps (LCL) and public lighting through solar streetlights	1,000	2,000	3,000	6,000	6,000	8,000	20,000
		P18 Program Total	1,000	2,000	3,000	6,000	20,500	24,000	50,500
	P19: Control of energy demand	19.1 SP: Standardization, Certification & Optimization of demand for conventional energy	0,000	0,000	0,000	0,000	3,000	1,000	4,000
		P19 Program Total	0,000	0,000	0,000	0,000	3,000	1,000	4,000
		AXIS 8 TOTAL	1,500	2,550	3,600	7,650	25,700	27,650	61,000
A9: Renewable Energy Promotion	P20: Accelerated development & Project management of hydropower	SP 20.1: Upgrading the potentialities of hydropower	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P20 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P21: Improving the energy mix in a positive eco-balance	SP 21.1: Promotion & Accelerated development of other forms of renewable energy for electrification	4,000	7,000	15,000	26,000	55,000	73,000	154,000
		P21 Program Total	4,000	7,000	15,000	26,000	55,000	73,000	154,000
		AXIS 9 TOTAL	4,000	7,000	15,000	26,000	55,000	73,000	154,000
A10: Improving access to modern energy services	P22: Rural and peri-urban electrification	P 22.1: Promotion and development of sustainable rural electrification	2,000	2,000	3,000	7,000	14,000	20,000	41,000
		P22 Program Total	2,000	2,000	3,000	7,000	14,000	20,000	41,000
	P23: Domestic alternative fuels to wood energy	P 23.1: Promotion of domestic butane fuel substitute for wood energy	2,000	3,000	5,000	10,000	10,000	10,000	30,000
		P23 Program Total	2,000	3,000	5,000	10,000	10,000	10,000	30,000
	P24: Rural access to modern energy	P 24.1: Multifunctional access platform for energy & driving forces	0,000	0,000	0,700	0,700	0,900	1,100	2,700
		P24 Program Total	0,000	0,000	0,700	0,700	0,900	1,100	2,700
		AXIS 10 TOTAL	4,000	5,000	8,700	17,700	24,900	31,100	73,700
A11: Development of a communication and advocacy strategy on climate change	P25: Development of a Regional Communication Strategy on Climate Change and Resilience.	SP 25.1: Development and implementation of a regional communication strategy	0,040	0,000	0,000	0,040	0,000	0,000	
		SP 25.2 Creation and Management of a Regional Portal "Climate Change and Resilience in the Sahel"	0,300	0,300	0,300	0,900	1,500	1,500	
		P25 program Total	0,340	0,300	0,300	0,940	1,500	1,500	0,000
	P26: Implementation of Advocacy	SP 26.1: Launch of a campaign "The Sahel is now!"	0,000	0,000	0,000	0,000	0,000	0,000	
		SP 26.2: Regional Gala of Excellence Held Annually	0,300	0,300	0,300	0,900	1,500	1,500	

AXIS	PROGRAMS	SUBPROGRAMS	GAMBIA						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
		SP 26.3 Creation and management of a regional movement of youth " Sahel Volunteers"	0,000	0,000	0,250	0,250	0,000	0,000	
		P26 program Total	0,300	0,300	0,550	1,150	1,500	1,500	0,000
		TOTAL AREA 11	0,640	0,600	0,850	2,090	3,000	3,000	0,000
A12: Capacity reinforcement of communication and advocacy actors	P27: Capacity building at the individual level	27.1 SP: Capacity Building of media professionals	0,050	0,100	0,100	0,250	0,500	0,500	
		SP 27.2: Capacity Building for Advocacy actors (opinion leaders)	0,000	0,100	0,100	0,200	0,500	0,500	
		27.3 SP: Capacity building of civil society actors	0,050	0,100	0,100	0,250	0,500	0,500	
		P27 Program Total	0,100	0,300	0,300	0,700	1,500	1,500	0,000
	P28: Capacity building Organizationally	SP 28.1: Capacity Building of Press enterprises	0,050	0,100	0,100	0,250	0,500	0,500	
		SP 28.2: Institutional capacity reinforcement (public services and ministry officials related to environmental issues).	0,050	0,100	0,100	0,250	0,500	0,500	
		SP 28.3: Capacity Building of NGOs and Civil Society	0,050	0,100	0,100	0,250	0,500	0,500	
		P28 Program Total	0,150	0,300	0,300	0,750	1,500	1,500	0,000
		AXIS 12 TOTAL	0,250	0,600	0,600	1,450	3,000	3,000	0,000
A13: Capacity building of national institutions and frameworks in the area of climate change	P29: Countries capacity building in the field of climate change	SP 29.1: Institutional Capacities reinforcement	0,000	0,000	0,000	0,000	3,200	2,200	5,400
		SP 29.2: Strengthening the Capacities of different stakeholder groups in the implementation of Multilateral Environmental Agreements (MEAs)	0,000	0,500	0,500	1,000	3,000	3,000	7,000
		SP 29.3 Institutional capacity building in the field of energy	1,000	3,000	1,650	5,650	0,000	0,000	5,650
		P29 Program Total	1,000	3,000	1,650	6,650	0,000	0,000	5,650
		AXIS 13 TOTAL	1,000	3,000	1,650	6,650	0,000	0,000	5,650
Axis 14: Strengthening climate information systems and the synergy between research and development structures	P 30: Production of information and means of popularizing information on climate change (National and regional scales)	SP 30.1. Strengthening of information generation capacity is climate change	0,000	0,500	0,500	1,000	2,000	2,000	5,000
		SP 30.2. systems development and use of information is CC extension	0,000	0,500	0,500	1,000	1,500	1,500	4,000
		P30 Program Total	0,000	1,000	1,000	2,000	3,500	3,500	9,000
	P31: Capacity building of actors in the use of climate change information	SP 31.1. Strengthening the Capacities of technical services to to use of information on climate change	0,000	0,500	0,500	1,000	1,000	1,000	3,000

AXIS	PROGRAMS	SUBPROGRAMS	GAMBIA							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
		SP 31.2. Strengthening private sector capacity, civil society and local communities in the use of information on climate change	0,000	0,500	0,500	1,000	1,500	1,500	4,000	
		P31 Program Total	0,000	1,000	1,000	2,000	2,500	2,500	7,000	
		AXIS 14 TOTAL	0,000	2,000	2,000	4,000	6,000	6,000	16,000	
Axis 15: Strengthening capacity to Mobilize financial and technical partnerships	P32: Frames capacity building in the field of negotiations	SP 32.1: Development of multi-year programs of national training frameworks in the field of negotiations				0,000			0,000	
		SP32.2: Implementation of executive training programs in the field of negotiations				0,000			0,000	
		P32 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000	
	P33: Improving access conditions to climate fund	SP33.1: Program for updating and translating NDCs (Nationally Determined Contribution) into programs and operational projects	0,100	0,100	0,100	0,300			0,300	
		SP33.2: Development and implementation of a Capacity Building Program for National Managers to Facilitate Access to Climate Funds	1,000	1,000	1,000	3,000			3,000	
		SP 33.3 Coordination by the Joint Working Group (JWG)	0,000	0,000	0,000	0,000			0,000	
		P33 Program Total	1,100	1,100	1,100	3,300	0,000	0,000	3,300	
	P34: Advocacy for Mobilizing technical and financial resources for regional organizations	34.1 SP: Advocacy of Basin Organizations	0,000	0,000	0,000	0,000			0,000	
		34.2 SP: Advocacy for regional organisms	0,000	0,000	0,000	0,000			0,000	
		P34 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000	
			AXIS 15 TOTAL	1,100	1,100	1,100	3,300	0,000	0,000	3,300
	CIP SR TOTAL			66.685	130.787	92.437	292.908	6 989.655	7 146.735	15 047.908

Annex 10: RPP and CIP SR of Guinea (in US \$ million)

AXIS	PROGRAMS	SUBPROGRAMS	GUINEA							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
A1: Restoration and rehabilitation of degraded lands and sensitive ecosystems	P1: Support to national and regional programs for land restoration	SP 1.1: Support to National Plans for land degradation neutrality and Their extension to the Region	0,000	0,500	0,500	1,000	210.357	210.357	421.714	
		SP 1.2: Support for the restoration of agricultural land in AIC's framework	0,000	0,500	0,500	1,000	11.760	11.760	24.520	
		SP 1.3: Development of "Economics of Land Degradation" and the Green Economy	0,000	0,500	0,500	1,000	7,000	7,000	15,000	
		P1 Program Total	0,000	1,500	1,500	3,000	229.117	229.117	461.234	
	P2: Integrated management of sensitive ecosystems significant for building resilience	SP 2.1: Protection and development of humid areas important for Ramsar's Convention	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		SP 2.2: Reconstruction and protection of delicate ecosystems in Sahel's Region (mangrove stands, tiger bush, basins and oases)	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		SP 2.3: Coastal areas Protection	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		P2 Program Total	0,000	1,000	1,000	3,000	265,000	265,000	798,000	
	AXIS 1 TOTAL			0,000	2,500	2,500	6,000	494.117	494.117	1 259.234
	A2: Carbon sequestration capacities reinforcement	P3: Reconstruction Support of major natural ecosystems for carbon sequestration	SP 3.1: Support of the rehabilitation of classified forests and other significant natural ecosystems	0,000	0,500	0,500	1,000	197.145	197.145	395.289
SP 3.2: Promoting the establishment and management of protected areas and national parks			0,000	0,500	0,500	1,000	197.145	197.145	395.289	
SP 3.3: Fight against deforestation (land clearing) and bushfires			0,000	0,500	0,500	1,000	19.714	19.714	40.429	
P3 Program Total			0,000	1,000	1,000	3,000	394.289	394.289	831.007	
P4: Reforestation plan promotion in the context of carbon sequestration		SP 4.1: Development and implementation of a state program of reforestation in the countries of the Sahel Region	0,000	0,500	0,500	1,000	525,000	525,000	1 051.000	
		SP 4.2: Promotion of operations "Village wood" in local communities and private plantations	0,000	0,500	0,500	1,000	3,500	3,500	8,000	
		P4 Program Total	0,000	1,000	1,000	2,000	528.500	528.500	1 059.000	
AXIS 2 TOTAL			0,000	2,000	2,000	5,000	922.789	922.789	1 890.007	
A3: knowledge Improvement and conservation / water resources management	P5: Support for Strengthening the knowledge of water field	SP 5.1: Research and development on water	0,000	0,000	0,000	0,000	0,000	0,000	0,000	
		SP 5.2: Establishment of databases on urban and village water works in the states	0,000	0,000	0,000	0,000	0,000	0,000	0,000	

AXIS	PROGRAMS	SUBPROGRAMS	GUINEA						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
		SP 5.3: Setting up databases on hydrogeology and characteristics of groundwater resources.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P5 Program Total	0,000						
	P6: observation and monitoring of Surface water and groundwater resources	SP 6.1: Support to the dissemination of States meteorological observations results	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 6.2: Installation and Support for the Strengthening of water observatories in countries watersheds.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 6.3: Support to the operationalization of the weather models in the States	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P6 Total Program	0,000						
	P7: preservation and water resource management.	SP 7.1: Support for the results extension of States meteorological observation	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 7.2: Installation and Strengthening Support for the water observatories in countries watersheds.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 7.3: Support for the operationalization of weather forecast models in the States	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 7.4: Water Resources Mobilization	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P7 Program Total	0,000						
		AXIS 3 TOTAL	0,000						
A4: Access to drinking water and productive uses	P8: Urban and Rural Water Supply	SP 8.1: Populations Access to Drinking Water and Sanitation	0,000	0,320	0,450	0,770	0,000	0,000	0,770
		SP 8.2: Village Hydraulic Development and Building Resilience Against Climate Change in Rural Areas	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P8 Program Total	0,000	0,320	0,450	0,770	0,000	0,000	0,770
	P9: Hydraulic and pastoral farming	SP 9.1: Ponds and wells Development for livestock	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 9.2. : Rehabilitation or Construction of dams or reservoirs for irrigation Purposes	0,300	0,600	0,180	1,080	0,000	0,000	1,080
		P9 Program Total	0,300	0,600	0,180	1,080	0,000	0,000	1,080
		AXIS 4 TOTAL	0,300	0,920	0,630	1,850	0,000	0,000	1,850
A5: Strengthening inter-state cooperation for a synergy of action in water	P10: Cooperation for water resources sharing and management	SP 10.1: Management of transboundary resources.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 10.2: Water Charter between States bordering a basin.	0,000	0,000	0,000	0,000	0,000	0,000	0,000

AXIS	PROGRAMS	SUBPROGRAMS	GUINEA						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
resources management		P10 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P11: Implementation of regional guidelines and policies at the state level.	SP 11.1: Institutional Support	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 11.2: Regional, subregional and national capacity reinforcement.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P11 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		AXIS 5 TOTAL	0,000	0,000	0,000	0,000	0,000	0,000	
Priority 6: Reduction of GHG(Greenhouse Gas effects) emissions in the agropastoral sector	P12: Promotion of low carbon agricultural production systems	SP 12.1: Sustainable management of soil fertility	32.810	32.810	32.810	98.431	172.254	221.470	492.155
		SP 12.2: Sustainable management of irrigation systems	32.810	32.810	32.810	98.431	172.254	221.470	492.155
		P12 Program Total	65.621	65.621	65.621	196.862	344.508	442.939	984.310
	P13: Promotion of low carbon animal production systems	SP 13.1: Promotion of integrated crop-livestock systems	32.810	32.810	32.810	98.431	172.254	221.470	492.155
		13.2 SP: Securing pastoral production systems	32.810	32.810	32.810	98.431	172.254	221.470	492.155
		P13 Program Total	65.621	65.621	65.621	196.862	344.508	442.939	984.310
		AXIS 6 TOTAL	131.241	131.241	131.241	393.724	689.017	885.879	1 968.619
Priority 7: Promotion of sustainable production systems in the context of adaptation to climate change	P14: Promotion of models for intensification of sustainable agricultural and livestock production	SP 14.1: Promotion of sustainable agricultural intensification models	32.810	32.810	32.810	98.431	172.254	221.470	492.155
		SP 14.2: Promotion of sustainable livestock production intensification models	32.810	32.810	32.810	98.431	172.254	221.470	492.155
		P14 Program Total	65.621	65.621	65.621	196.862	344.508	442.939	984.310
	P15: Restoration of agricultural and pastoral land	SP 15.1: Restoration of farmland	32.810	32.810	32.810	98.431	172.254	221.470	492.155
		SP 15.2: Restoring rangelands	32.810	32.810	32.810	98.431	172.254	221.470	492.155
		P15 Program Total	65.621	65.621	65.621	196.862	344.508	442.939	984.310
	P16: Management of agricultural and pastoral risk	SP 16.1: Promotion of insurance on agricultural and animal productions	32.810	32.810	32.810	98.431	172.254	221.470	492.155
		SP 16.2: Improvement of knowledge and management of risks related to agricultural and livestock productions	32.810	32.810	32.810	98.431	172.254	221.470	492.155
		P16 program Total	65.621	65.621	65.621	196.862	344.508	442.939	984.310
		AXIS 7 TOTAL	196.862	196.862	196.862	590.586	1 033.525	1 328.818	2 952.929
Axis 8: Improvement of overall energy efficiency	P17: Energy efficiency of biomass energy chains	SP 17.1: Promotion of Improved wood and charcoal stoves	1,000	2,000	2,000	5,000	8,000	8,000	21,000
		SP 17.2: Promotion of Improved Charcoal Production technology & production of charcoal	0,800	0,800	1,000	2,600	2,000	1,400	6,000
		SP 17.3: Development of alternative energy systems in forest fuel (biogas, biofuels, agroforestry residues, etc.)	0,000	0,000	0,000	0,000	15,000	30,000	45,000
		P17 Program Total	1,800	2,800	3,000	7,600	25,000	39,400	72,000

AXIS	PROGRAMS	SUBPROGRAMS	GUINEA						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
	P18: Energy efficiency of the modes of production and transmission of electrical energy	18.1 SP: Technological upgrade of energy-consuming thermal power plants	0,000	0,000	0,000	0,000	88,000	90,000	178,000
		18.2 SP: Technological upgrade of transmission networks (transmission & distribution of electrical energy)	0,000	0,000	0,000	0,000	80,000	100,000	180,000
		18.3 SP: Promotion of Low Consumption Lamps (LCL) and public lighting through solar streetlights	5,000	15,000	20,000	40,000	60,000	75,000	175,000
		P18 Program Total	5,000	15,000	20,000	40,000	228,000	265,000	533,000
	P19: Control of energy demand	19.1 SP: Standardization, Certification & Optimization of demand for conventional energy	0,000	0,000	0,000	0,000	15,000	10,000	25,000
		P19 Program Total	0,000	0,000	0,000	0,000	15,000	10,000	25,000
		AXIS 8 TOTAL	6,800	17,800	23,000	47,600	268,000	314,400	630,000
A9: Renewable Energy Promotion	P20: Accelerated development & Project management of hydropower	SP 20.1: Upgrading the potentialities of hydropower	80,000	100,000	118,000	298,000	700,000	800,000	1 798,000
		P20 Program Total	80,000	100,000	118,000	298,000	700,000	800,000	1 798,000
	P21: Improving the energy mix in a positive eco-balance	SP 21.1: Promotion & Accelerated development of other forms of renewable energy for electrification	22,000	30,000	48,000	100,000	250,000	410,000	760,000
		P21 Program Total	22,000	30,000	48,000	100,000	250,000	410,000	760,000
		AXIS 9 TOTAL	102,000	130,000	166,000	398,000	950,000	1 210,000	2 558,000
A10: Improving access to modern energy services	P22: Rural and peri-urban electrification	P 22.1: Promotion and development of sustainable rural electrification	20,000	25,000	35,000	80,000	150,000	160,000	390,000
		P22 Program Total	20,000	25,000	35,000	80,000	150,000	160,000	390,000
	P23: Domestic alternative fuels to wood energy	P 23.1: Promotion of domestic butane fuel substitute for wood energy	5,000	10,000	17,000	32,000	30,000	30,000	92,000
		P23 Program Total	5,000	10,000	17,000	32,000	30,000	30,000	92,000
	P24: Rural access to modern energy	P 24.1: Multifunctional access platform for energy & driving forces	1,000	1,000	2,000	4,000	3,500	3,000	10,500
		P24 Program Total	1,000	1,000	2,000	4,000	3,500	3,000	10,500
		AXIS 10 TOTAL	26,000	36,000	54,000	116,000	183,500	193,000	492,500
A11: Development of a communication and advocacy strategy on climate change	P25: Development of a Regional Communication Strategy on Climate Change and Resilience.	SP 25.1: Development and implementation of a regional communication strategy	0,040	0,000	0,000	0,040	0,000	0,000	
		SP 25.2 Creation and Management of a Regional Portal "Climate Change and Resilience in the Sahel"	0,300	0,300	0,300	0,900	1,500	1,500	
		P25 program Total	0.340	0,300	0,300	0,940	1,500	1,500	0,000
	P26: Implementation of Advocacy	SP 26.1: Launch of a campaign "The Sahel is now!"	0,000	0,000	0,000	0,000	0,000	0,000	
		SP 26.2: Regional Gala of Excellence Held Annually	0,300	0,300	0,300	0,900	1,500	1,500	

AXIS	PROGRAMS	SUBPROGRAMS	GUINEA							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
		SP 26.3 Creation and management of a regional movement of youth " Sahel Volunteers"	0,000	0,000	0,000	0,000	0,000	0,000		
		P26 program Total	0,300	0,300	0,300	0,900	1,500	1,500	0,000	
		TOTAL AREA 11	0,640	0,600	0,600	1,840	3,000	3,000	0,000	
A12: Capacity reinforcement of communication and advocacy actors	P27: Capacity building at the individual level	27.1 SP: Capacity Building of media professionals	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 27.2: Capacity Building for Advocacy actors (opinion leaders)	0,000	0,100	0,100	0,200	0,500	0,500		
		27.3 SP: Capacity building of civil society actors	0,050	0,100	0,100	0,250	0,500	0,500		
		P27 Program Total	0,100	0,300	0,300	0,700	1,500	1,500	0,000	
	P28: Capacity building Organizationally	SP 28.1: Capacity Building of Press enterprises	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 28.2: Institutional capacity reinforcement (public services and ministry officials related to environmental issues).	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 28.3: Capacity Building of NGOs and Civil Society	0,050	0,100	0,100	0,250	0,500	0,500		
		P28 Program Total	0,150	0,300	0,300	0,750	1,500	1,500	0,000	
			AXIS 12 TOTAL	0,250	0,600	0,600	1,450	3,000	3,000	0,000
	A13: Capacity building of national institutions and frameworks in the area of climate change	P29: Countries capacity building in the field of climate change	SP 29.1: Institutional Capacities reinforcement	0,000	0,000	0,000	0,000	3,200	2,200	5,400
SP 29.2: Strengthening the Capacities of different stakeholder groups in the implementation of Multilateral Environmental Agreements (MEAs)			0,000	0,500	0,500	1,000	3,000	3,000	7,000	
SP 29.3 Institutional capacity building in the field of energy			3,000	6,000	7,000	16,000	0,000	0,000	16,000	
P29 Program Total			3,000	6,000	7,000	17,000	0,000	0,000	16,000	
		AXIS 13 TOTAL	3,000	6,000	7,000	17,000	0,000	0,000	16,000	
Axis 14: Strengthening climate information systems and the synergy between research and development structures	P 30: Production of information and means of popularizing information on climate change (National and regional scales)	SP 30.1. Strengthening of information generation capacity is climate change	0,000	0,500	0,500	1,000	2,000	2,000	5,000	
		SP 30.2. systems development and use of information is CC extension	0,000	0,500	0,500	1,000	1,500	1,500	4,000	
		P30 Program Total	0,000	1,000	1,000	2,000	3,500	3,500	9,000	
	P31: Capacity building of actors in the use of climate change	SP 31.1. Strengthening the Capacities of technical services to to use of information on climate change	0,000	0,500	0,500	1,000	1,000	1,000	3,000	

AXIS	PROGRAMS	SUBPROGRAMS	GUINEA							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
	information	SP 31.2. Strengthening private sector capacity, civil society and local communities in the use of information on climate change	0,000	0,500	0,500	1,000	1,500	1,500	4,000	
		P31 Program Total	0,000	1,000	1,000	2,000	2,500	2,500	7,000	
		AXIS 14 TOTAL	0,000	2,000	2,000	4,000	6,000	6,000	16,000	
Axis 15: Strengthening capacity to Mobilize financial and technical partnerships	P32: Frames capacity building in the field of negotiations	SP 32.1: Development of multi-year programs of national training frameworks in the field of negotiations				0,000			0,000	
		SP32.2: Implementation of executive training programs in the field of negotiations				0,000			0,000	
		P32 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000	
	P33: Improving access conditions to climate fund	SP33.1: Program for updating and translating NDCs (Nationally Determined Contribution) into programs and operational projects	0,100	0,100	0,100	0,300			0,300	
		SP33.2: Development and implementation of a Capacity Building Program for National Managers to Facilitate Access to Climate Funds	1,000	1,000	1,000	3,000			3,000	
		SP 33.3 Coordination by the Joint Working Group (JWG)	0,000	0,000	0,000	0,000			0,000	
		P33 Program Total	1,100	1,100	1,100	3,300	0,000	0,000	3,300	
	P34: Advocacy for Mobilizing technical and financial resources for regional organizations	34.1 SP: Advocacy of Basin Organizations	0,000	0,000	0,000	0,000			0,000	
		34.2 SP: Advocacy for regional organisms	0,000	0,000	0,000	0,000			0,000	
		P34 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000	
			AXIS 15 TOTAL	1,100	1,100	1,100	3,300	0,000	0,000	3,300
	CIP SR TOTAL			468.193	527.623	587.533	1 586.350	4 552.948	5 361.003	11 788.440

Appendix 11: RPP and CIP SR of Mali (in US \$ million)

AXIS	PROGRAMS	SUBPROGRAMS	MALI							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
A1: Restoration and rehabilitation of degraded lands and sensitive ecosystems	P1: Support to national and regional programs for land restoration	SP 1.1: Support to National Plans for land degradation neutrality and Their extension to the Region	0,000	0,500	0,500	1,000	2 218.050	2 218.050	4 437.100	
		SP 1.2: Support for the restoration of agricultural land in AIC's framework	0,000	0,500	0,500	1,000	124,000	124,000	249,000	
		SP 1.3: Development of "Economics of Land Degradation" and the Green Economy	0,000	0,500	0,500	1,000	7,000	7,000	15,000	
		P1 Program Total	0,000	1,500	1,500	3,000	2 349.050	2 349.050	4 701.100	
	P2: Integrated management of sensitive ecosystems significant for building resilience	SP 2.1: Protection and development of humid areas important for Ramsar's Convention	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		SP 2.2: Reconstruction and protection of delicate ecosystems in Sahel's Region (mangrove stands, tiger bush, basins and oases)	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		SP 2.3: Coastal areas Protection	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		P2 Program Total	0,000	1,000	1,000	3,000	265,000	265,000	798,000	
			AXIS 1 TOTAL	0,000	2,500	2,500	6,000	2 614.050	2 614.050	5 499.100
	A2: Carbon sequestration capacities reinforcement	P3: Reconstruction Support of major natural ecosystems for carbon sequestration	SP 3.1: Support of the rehabilitation of classified forests and other significant natural ecosystems	0,000	0,500	0,500	1,000	2 078.736	2 078.736	4 158.472
SP 3.2: Promoting the establishment and management of protected areas and national parks			0,000	0,500	0,500	1,000	2 078.736	2 078.736	4 158.472	
SP 3.3: Fight against deforestation (land clearing) and bushfires			0,000	0,500	0,500	1,000	207.874	207.874	416.747	
P3 Program Total			0,000	1,000	1,000	3,000	4 157.472	4 157.472	8 733.691	
P4: Reforestation plan promotion in the context of carbon sequestration		SP 4.1: Development and implementation of a state program of reforestation in the countries of the Sahel Region	0,000	0,500	0,500	1,000	525,000	525,000	1 051.000	
		SP 4.2: Promotion of operations "Village wood" in local communities and private plantations	0,000	0,500	0,500	1,000	3,500	3,500	8,000	
		P4 Program Total	0,000	1,000	1,000	2,000	528.500	528.500	1 059.000	
		AXIS 2 TOTAL	0,000	2,000	2,000	5,000	4 685.972	4 685.972	9 792.691	
A3: knowledge Improvement and conservation / water resources management	P5: Support for Strengthening the knowledge of water field	SP 5.1: Research and development on water	0,000	0,256	0,000	0,256	0,000	0,000	0,256	
		SP 5.2: Establishment of databases on urban and village water works in the states	0,000	0,000	0,000	0,000	0,000	0,000	0,000	

AXIS	PROGRAMS	SUBPROGRAMS	MALI						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
		SP 5.3: Setting up databases on hydrogeology and characteristics of groundwater resources.	0,000	2,425	0,000	2,425	0,000	0,000	2,425
		P5 Program Total	0,000	2,681	0,000	2,681	0,000	0,000	2,681
	P6: observation and monitoring of Surface water and groundwater resources	SP 6.1: Support to the dissemination of States meteorological observations results	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 6.2: Installation and Support for the Strengthening of water observatories in countries watersheds.	0,000	0.305	0,000	0.305	0,000	0,000	0.305
		SP 6.3: Support to the operationalization of the weather models in the States	0,000	0,000	1,692	1,692	0,000	0,000	1,692
		P6 Total Program	0,000	0.305	1,692	1,997	0,000	0,000	1,997
	P7: preservation and water resource management.	SP 7.1: Support for the results extension of States meteorological observation	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 7.2: Installation and Strengthening Support for the water observatories in countries watersheds.	0,000	0.677	0,800	1,477	0,000	0,000	1,477
		SP 7.3: Support for the operationalization of weather forecast models in the States	0,000	0,850	0,280	1,130	0,000	0,000	1,130
		SP 7.4: Water Resources Mobilization	0,000	0,000	2,000	2,000	31,400	0,000	33,400
		P7 Program Total	0,000	1,527	3,080	4,607	31,400	0,000	36,007
		AXIS 3 TOTAL	0,000	4,512	4,772	9,284	31,400	0,000	40,684
A4: Access to drinking water and productive uses	P8: Urban and Rural Water Supply	SP 8.1: Populations Access to Drinking Water and Sanitation	0,000	0,000	51.708	51.708	0,000	0,000	51.708
		SP 8.2: Village Hydraulic Development and Building Resilience Against Climate Change in Rural Areas	0,000	0,000	1,500	1,500	150,000	0,000	151.500
		P8 Program Total	0,000	0,000	53.208	53.208	150,000	0,000	203.208
	P9: Hydraulic and pastoral farming	SP 9.1: Ponds and wells Development for livestock	0,000	0,000	0.814	0.814	0,000	30,000	30.814
		SP 9.2: Rehabilitation or Construction of dams or reservoirs for irrigation Purposes	0,000	6.149	0,000	6.149	2,000	0,000	8,149
		P9 Program Total	0,000	6.149	0.814	6.963	2,000	30,000	38.963
		AXIS 4 TOTAL	0,000	6.149	54.022	60.171	152,000	30,000	242.171
A5: Strengthening inter-state	P10: Cooperation for water resources sharing	SP 10.1: Management of transboundary resources.	0,000	0,000	0,695	0,695	0,000	0,000	0,695

AXIS	PROGRAMS	SUBPROGRAMS	MALI						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
cooperation for a synergy of action in water resources management	and management	SP 10.2: Water Charter between States bordering a basin.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P10 Program Total	0,000	0,000	0,695	0,695	0,000	0,000	0,695
	P11: Implementation of regional guidelines and policies at the state level.	SP 11.1: Institutional Support	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 11.2: Regional, subregional and national capacity reinforcement.	0,000	0.162	0,000	0.162	0,000	0,000	0.162
		P11 Program Total	0,000	0.162	0,000	0.162	0,000	0,000	0.162
		AXIS 5 TOTAL	0,000	0.162	0,695	0.857	0,000	0,000	0.857
Priority 6: Reduction of GHG(Greenhouse Gas effects) emissions in the agropastoral sector	P12: Promotion of low carbon agricultural production systems	SP 12.1: Sustainable management of soil fertility	144.413	144.413	144.413	433.240	758.170	974.790	2 166.200
		SP 12.2: Sustainable management of irrigation systems	144.413	144.413	144.413	433.240	758.170	974.790	2 166.200
		P12 Program Total	288.827	288.827	288.827	866.480	1 516.340	1 949.580	4 332.400
	P13: Promotion of low carbon animal production systems	SP 13.1: Promotion of integrated crop-livestock systems	144.413	144.413	144.413	433.240	758.170	974.790	2 166.200
		13.2 SP: Securing pastoral production systems	144.413	144.413	144.413	433.240	758.170	974.790	2 166.200
		P13 Program Total	288.827	288.827	288.827	866.480	1 516.340	1 949.580	4 332.400
		AXIS 6 TOTAL	577.653	577.653	577.653	1 732.960	3 032.680	3 899.160	8 664.800
Priority 7: Promotion of sustainable production systems in the context of adaptation to climate change	P14: Promotion of models for intensification of sustainable agricultural and livestock production	SP 14.1: Promotion of sustainable agricultural intensification models	144.413	144.413	144.413	433.240	758.170	974.790	2 166.200
		SP 14.2: Promotion of sustainable livestock production intensification models	144.413	144.413	144.413	433.240	758.170	974.790	2 166.200
		P14 Program Total	288.827	288.827	288.827	866.480	1 516.340	1 949.580	4 332.400
	P15: Restoration of agricultural and pastoral land	SP 15.1: Restoration of farmland	144.413	144.413	144.413	433.240	758.170	974.790	2 166.200
		SP 15.2: Restoring rangelands	144.413	144.413	144.413	433.240	758.170	974.790	2 166.200
		P15 Program Total	288.827	288.827	288.827	866.480	1 516.340	1 949.580	4 332.400
	P16: Management of agricultural and pastoral risk	SP 16.1: Promotion of insurance on agricultural and animal productions	144.413	144.413	144.413	433.240	758.170	974.790	2 166.200
		SP 16.2: Improvement of knowledge and management of risks related to agricultural and livestock productions	144.413	144.413	144.413	433.240	758.170	974.790	2 166.200
		P16 program Total	288.827	288.827	288.827	866.480	1 516.340	1 949.580	4 332.400
		AXIS 7 TOTAL	866.480	866.480	866.480	2 599.440	4 549.020	5 848.740	12 997.200
Axis 8: Improvement of overall energy efficiency	P17: Energy efficiency of biomass energy chains	SP 17.1: Promotion of Improved wood and charcoal stoves	1,800	1,800	1,800	5,400	5,000	4,600	15,000
		SP 17.2: Promotion of Improved Charcoal Production technology & production of charcoal	0,500	0,500	0,600	1,600	2,000	1,400	5,000

AXIS	PROGRAMS	SUBPROGRAMS	MALI						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
		SP 17.3: Development of alternative energy systems in forest fuel (biogas, biofuels, agroforestry residues, etc.)	0,000	0,000	0,000	0,000	12,000	22,000	34,000
		P17 Program Total	2,300	2,300	2,400	7,000	19,000	28,000	54,000
	P18: Energy efficiency of the modes of production and transmission of electrical energy	18.1 SP: Technological upgrade of energy-consuming thermal power plants	0,000	0,000	0,000	0,000	64,000	70,000	134,000
		18.2 SP: Technological upgrade of transmission networks (transmission & distribution of electrical energy)	0,000	0,000	0,000	0,000	60,000	50,000	110,000
		18.3 SP: Promotion of Low Consumption Lamps (LCL) and public lighting through solar streetlights	20,000	30,000	45,000	95,000	80,000	96,000	271,000
		P18 Program Total	20,000	30,000	45,000	95,000	204,000	216,000	515,000
	P19: Control of energy demand	19.1 SP: Standardization, Certification & Optimization of demand for conventional energy	0,000	0,000	0,000	0,000	12,000	8,000	20,000
		P19 Program Total	0,000	0,000	0,000	0,000	12,000	8,000	20,000
		AXIS 8 TOTAL	22,300	32,300	47,400	102,000	235,000	252,000	589,000
A9: Renewable Energy Promotion	P20: Accelerated development & Project management of hydropower	SP 20.1: Upgrading the potentialities of hydropower	10,000	10,000	30,000	50,000	110,000	120,000	280,000
		P20 Program Total	10,000	10,000	30,000	50,000	110,000	120,000	280,000
	P21: Improving the energy mix in a positive eco-balance	SP 21.1: Promotion & Accelerated development of other forms of renewable energy for electrification	50,000	100,000	150,000	300,000	700,000	800,000	1 800,000
		P21 Program Total	50,000	100,000	150,000	300,000	700,000	800,000	1 800,000
		AXIS 9 TOTAL	60,000	110,000	180,000	350,000	810,000	920,000	2 080,000
A10: Improving access to modern energy services	P22: Rural and peri-urban electrification	P 22.1: Promotion and development of sustainable rural electrification	25,000	25,000	40,000	90,000	95,000	96,000	281,000
		P22 Program Total	25,000	25,000	40,000	90,000	95,000	96,000	281,000
	P23: Domestic alternative fuels to wood energy	P 23.1: Promotion of domestic butane fuel substitute for wood energy	5,000	7,000	8,000	20,000	50,000	70,000	140,000
		P23 Program Total	5,000	7,000	8,000	20,000	50,000	70,000	140,000
	P24: Rural access to modern energy	P 24.1: Multifunctional access platform for energy & driving forces	1,000	1,000	2,000	4,000	7,000	8,000	19,000
		P24 Program Total	1,000	1,000	2,000	4,000	7,000	8,000	19,000
		AXIS 10 TOTAL	31,000	33,000	50,000	114,000	152,000	174,000	440,000
A11: Development of a communication	P25: Development of a Regional	SP 25.1: Development and implementation of a regional communication strategy	0,040	0,000	0,000	0,040	0,000	0,000	

AXIS	PROGRAMS	SUBPROGRAMS	MALI						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
and advocacy strategy on climate change	Communication Strategy on Climate Change and Resilience.	SP 25.2 Creation and Management of a Regional Portal "Climate Change and Resilience in the Sahel"	0,300	0,300	0,300	0,900	1,500	1,500	
		P25 program Total	0,340	0,300	0,300	0,940	1,500	1,500	0,000
	P26: Implementation of Advocacy	SP 26.1: Launch of a campaign "The Sahel is now!»	0,000	0,000	0,000	0,000	0,000	0,000	
		SP 26.2: Regional Gala of Excellence Held Annually	0,300	0,300	0,300	0,900	1,500	1,500	
		SP 26.3 Creation and management of a regional movement of youth " Sahel Volunteers"	0,000	0,000	0,000	0,000	0,000	0,000	
	P26 program Total	0,300	0,300	0,300	0,900	1,500	1,500	0,000	
	TOTAL AREA 11	0,640	0,600	0,600	1,840	3,000	3,000	0,000	
A12: Capacity reinforcement of communication and advocacy actors	P27: Capacity building at the individual level	27.1 SP: Capacity Building of media professionals	0,050	0,100	0,100	0,250	0,500	0,500	
		SP 27.2: Capacity Building for Advocacy actors (opinion leaders)	0,000	0,100	0,100	0,200	0,500	0,500	
		27.3 SP: Capacity building of civil society actors	0,050	0,100	0,100	0,250	0,500	0,500	
		P27 Program Total	0,100	0,300	0,300	0,700	1,500	1,500	0,000
	P28: Capacity building Organizationally	SP 28.1: Capacity Building of Press enterprises	0,050	0,100	0,100	0,250	0,500	0,500	
		SP 28.2: Institutional capacity reinforcement (public services and ministry officials related to environmental issues).	0,050	0,100	0,100	0,250	0,500	0,500	
		SP 28.3: Capacity Building of NGOs and Civil Society	0,050	0,100	0,100	0,250	0,500	0,500	
		P28 Program Total	0,150	0,300	0,300	0,750	1,500	1,500	0,000
		AXIS 12 TOTAL	0,250	0,600	0,600	1,450	3,000	3,000	0,000
	A13: Capacity building of national institutions and frameworks in the area of climate change	P29: Countries capacity building in the field of climate change	SP 29.1: Institutional Capacities reinforcement	0,000	0,000	0,000	0,000	3,200	2,200
SP 29.2: Strengthening the Capacities of different stakeholder groups in the implementation of Multilateral Environmental Agreements (MEAs)			0,000	0,500	0,500	1,000	3,000	3,000	7,000
SP 29.3 Institutional capacity building in the field of energy			1,000	4,000	4,800	9,800	0,000	0,000	9,800
P29 Program Total			1,000	4,000	4,800	10,800	0,000	0,000	9,800
	AXIS 13 TOTAL	1,000	4,000	4,800	10,800	0,000	0,000	9,800	

AXIS	PROGRAMS	SUBPROGRAMS	MALI							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
Axis 14: Strengthening climate information systems and the synergy between research and development structures	P 30: Production of information and means of popularizing information on climate change (National and regional scales)	SP 30.1. Strengthening of information generation capacity is climate change	0,000	0,500	0,500	1,000	2,000	2,000	5,000	
		SP 30.2. systems development and use of information is CC extension	0,000	0,500	0,500	1,000	1,500	1,500	4,000	
		P30 Program Total	0,000	1,000	1,000	2,000	3,500	3,500	9,000	
	P31: Capacity building of actors in the use of climate change information	SP 31.1. Strengthening the Capacities of technical services to to use of information on climate change	0,000	0,500	0,500	1,000	1,000	1,000	3,000	
		SP 31.2. Strengthening private sector capacity, civil society and local communities in the use of information on climate change	0,000	0,500	0,500	1,000	1,500	1,500	4,000	
		P31 Program Total	0,000	1,000	1,000	2,000	2,500	2,500	7,000	
			AXIS 14 TOTAL	0,000	2,000	2,000	4,000	6,000	6,000	16,000
	Axis 15: Strengthening capacity to Mobilize financial and technical partnerships	P32: Frames capacity building in the field of negotiations	SP 32.1: Development of multi-year programs of national training frameworks in the field of negotiations				0,000			0,000
			SP32.2: Implementation of executive training programs in the field of negotiations				0,000			0,000
			P32 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
P33: Improving access conditions to climate fund		SP33.1: Program for updating and translating NDCs (Nationally Determined Contribution) into programs and operational projects	0,100	0,100	0,100	0,300			0,300	
		SP33.2: Development and implementation of a Capacity Building Program for National Managers to Facilitate Access to Climate Funds	1,000	1,000	1,000	3,000			3,000	
		SP 33.3 Coordination by the Joint Working Group (JWG)	0,000	0,000	0,000	0,000			0,000	
		P33 Program Total	1,100	1,100	1,100	3,300	0,000	0,000	3,300	
P34: Advocacy for Mobilizing technical and financial resources for regional organizations		34.1 SP: Advocacy of Basin Organizations	0,000	0,000	0,000	0,000			0,000	
		34.2 SP: Advocacy for regional organisms	0,000	0,000	0,000	0,000			0,000	
		P34 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000	
			AXIS 15 TOTAL	1,100	1,100	1,100	3,300	0,000	0,000	3,300
CIP SR TOTAL			1 560.423	1 643.057	1 794.623	5 001.103	16 274.122	18 435.922	40 375.604	

Annex 12: RPP and CIP SR of Mauritania (US \$ Million)

AXIS	PROGRAMS	SUBPROGRAMS	MAURITANIA							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
A1: Restoration and rehabilitation of degraded lands and sensitive ecosystems	P1: Support to national and regional programs for land restoration	SP 1.1: Support to National Plans for land degradation neutrality and Their extension to the Region	0,000	0,500	0,500	1,000	1 842.413	1 842.413	3 685.825	
		SP 1.2: Support for the restoration of agricultural land in AIC's framework	0,000	0,500	0,500	1,000	103,000	103,000	207,000	
		SP 1.3: Development of "Economics of Land Degradation" and the Green Economy	0,000	0,500	0,500	1,000	7,000	7,000	15,000	
		P1 Program Total	0,000	1,500	1,500	3,000	1 952.413	1 952.413	3 907.825	
	P2: Integrated management of sensitive ecosystems significant for building resilience	SP 2.1: Protection and development of humid areas important for Ramsar's Convention	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		SP 2.2: Reconstruction and protection of delicate ecosystems in Sahel's Region (mangrove stands, tiger bush, basins and oases)	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		SP 2.3: Coastal areas Protection	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		P2 Program Total	0,000	1,000	1,000	3,000	265,000	265,000	798,000	
			AXIS 1 TOTAL	0,000	2,500	2,500	6,000	2 217.413	2 217.413	4 705.825
	A2: Carbon sequestration capacities reinforcement	P3: Reconstruction Support of major natural ecosystems for carbon sequestration	SP 3.1: Support of the rehabilitation of classified forests and other significant natural ecosystems	0,000	0,500	0,500	1,000	1 726.692	1 726.692	3 454.384
SP 3.2: Promoting the establishment and management of protected areas and national parks			0,000	0,500	0,500	1,000	1 726.692	1 726.692	3 454.384	
SP 3.3: Fight against deforestation (land clearing) and bushfires			0,000	0,500	0,500	1,000	172.669	172.669	346.338	
P3 Program Total			0,000	1,000	1,000	3,000	3 453.384	3 453.384	7 255.106	
P4: Reforestation plan promotion in the context of carbon sequestration		SP 4.1: Development and implementation of a state program of reforestation in the countries of the Sahel Region	0,000	0,500	0,500	1,000	525,000	525,000	1 051.000	
		SP 4.2: Promotion of operations "Village wood" in local communities and private plantations	0,000	0,500	0,500	1,000	3,500	3,500	8,000	
		P4 Program Total	0,000	1,000	1,000	2,000	528.500	528.500	1 059.000	
		AXIS 2 TOTAL	0,000	2,000	2,000	5,000	3 981.884	3 981.884	8 314.106	
A3: knowledge Improvement and conservation / water resources management	P5: Support for Strengthening the knowledge of water field	SP 5.1: Research and development on water	0,000	0,000	0,000	0,000	0,000	0,000	0,000	
		SP 5.2: Establishment of databases on urban and village water works in the states	0,000	0,000	0,000	0,000	0,000	0,000	0,000	

AXIS	PROGRAMS	SUBPROGRAMS	MAURITANIA						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
		SP 5.3: Setting up databases on hydrogeology and characteristics of groundwater resources.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P5 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P6: observation and monitoring of Surface water and groundwater resources	SP 6.1: Support to the dissemination of States meteorological observations results	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 6.2: Installation and Support for the Strengthening of water observatories in countries watersheds.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 6.3: Support to the operationalization of the weather models in the States	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P6 Total Program	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P7: preservation and water resource management.	SP 7.1: Support for the results extension of States meteorological observation	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 7.2: Installation and Strengthening Support for the water observatories in countries watersheds.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 7.3: Support for the operationalization of weather forecast models in the States	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 7.4: Water Resources Mobilization	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P7 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		AXIS 3 TOTAL	0,000	0,000	0,000	0,000	0,000	0,000	0,000
A4: Access to drinking water and productive uses	P8: Urban and Rural Water Supply	SP 8.1: Populations Access to Drinking Water and Sanitation	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 8.2: Village Hydraulic Development and Building Resilience Against Climate Change in Rural Areas	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P8 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P9: Hydraulic and pastoral farming	SP 9.1: Ponds and wells Development for livestock	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 9.2: Rehabilitation or Construction of dams or reservoirs for irrigation Purposes	0,000	0,000	0,000	0,000	300,000	0,000	300,000
		P9 Program Total	0,000	0,000	0,000	0,000	300,000	0,000	300,000
		AXIS 4 TOTAL	0,000	0,000	0,000	0,000	300,000	0,000	300,000
A5: Strengthening inter-state cooperation for a synergy of action in water	P10: Cooperation for water resources sharing and management	SP 10.1: Management of transboundary resources.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 10.2: Water Charter between States bordering a basin.	0,000	0,000	0,000	0,000	0,000	0,000	0,000

AXIS	PROGRAMS	SUBPROGRAMS	MAURITANIA						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
resources management		P10 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P11: Implementation of regional guidelines and policies at the state level.	SP 11.1: Institutional Support	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 11.2: Regional, subregional and national capacity reinforcement.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P11 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		AXIS 5 TOTAL	0,000	0,000	0,000	0,000	0,000	0,000	
Priority 6: Reduction of GHG(Greenhouse Gas effects) emissions in the agropastoral sector	P12: Promotion of low carbon agricultural production systems	SP 12.1: Sustainable management of soil fertility	16.516	16.516	16.516	49.548	86.709	111.483	247.740
		SP 12.2: Sustainable management of irrigation systems	16.516	16.516	16.516	49.548	86.709	111.483	247.740
		P12 Program Total	33.032	33.032	33.032	99.096	173.418	222.966	495.480
	P13: Promotion of low carbon animal production systems	SP 13.1: Promotion of integrated crop-livestock systems	16.516	16.516	16.516	49.548	86.709	111.483	247.740
		13.2 SP: Securing pastoral production systems	16.516	16.516	16.516	49.548	86.709	111.483	247.740
		P13 Program Total	33.032	33.032	33.032	99.096	173.418	222.966	495.480
		AXIS 6 TOTAL	66.064	66.064	66.064	198.192	346.836	445.932	990.960
Priority 7: Promotion of sustainable production systems in the context of adaptation to climate change	P14: Promotion of models for intensification of sustainable agricultural and livestock production	SP 14.1: Promotion of sustainable agricultural intensification models	16.516	16.516	16.516	49.548	86.709	111.483	247.740
		SP 14.2: Promotion of sustainable livestock production intensification models	16.516	16.516	16.516	49.548	86.709	111.483	247.740
		P14 Program Total	33.032	33.032	33.032	99.096	173.418	222.966	495.480
	P15: Restoration of agricultural and pastoral land	SP 15.1: Restoration of farmland	16.516	16.516	16.516	49.548	86.709	111.483	247.740
		SP 15.2: Restoring rangelands	16.516	16.516	16.516	49.548	86.709	111.483	247.740
		P15 Program Total	33.032	33.032	33.032	99.096	173.418	222.966	495.480
	P16: Management of agricultural and pastoral risk	SP 16.1: Promotion of insurance on agricultural and animal productions	16.516	16.516	16.516	49.548	86.709	111.483	247.740
		SP 16.2: Improvement of knowledge and management of risks related to agricultural and livestock productions	16.516	16.516	16.516	49.548	86.709	111.483	247.740
		P16 program Total	33.032	33.032	33.032	99.096	173.418	222.966	495.480
			AXIS 7 TOTAL	99.096	99.096	99.096	297.288	520.254	668.898
Axis 8: Improvement of overall energy efficiency	P17: Energy efficiency of biomass energy chains	SP 17.1: Promotion of Improved wood and charcoal stoves	0,400	0,400	0,400	1,200	1,200	1,200	3,600
		SP 17.2: Promotion of Improved Charcoal Production technology & production of charcoal	0,100	0,150	0,200	0,450	0,700	0,550	1,700
		SP 17.3: Development of alternative energy systems in forest fuel (biogas, biofuels, agroforestry residues, etc.)	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P17 Program Total	0,500	0,550	0,600	1,650	1,900	1,750	5,300

AXIS	PROGRAMS	SUBPROGRAMS	MAURITANIA						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
	P18: Energy efficiency of the modes of production and transmission of electrical energy	18.1 SP: Technological upgrade of energy-consuming thermal power plants	0,000	0,000	0,000	0,000	20,000	20,000	40,000
		18.2 SP: Technological upgrade of transmission networks (transmission & distribution of electrical energy)	0,000	0,000	0,000	0,000	80,000	70,000	150,000
		18.3 SP: Promotion of Low Consumption Lamps (LCL) and public lighting through solar streetlights	11,000	14,000	15,000	40,000	50,000	66,000	156,000
		P18 Program Total	11,000	14,000	15,000	40,000	150,000	156,000	346,000
	P19: Control of energy demand	19.1 SP: Standardization, Certification & Optimization of demand for conventional energy	0,000	0,000	0,000	0,000	5,000	2,000	7,000
		P19 Program Total	0,000	0,000	0,000	0,000	5,000	2,000	7,000
		AXIS 8 TOTAL	11,500	14,550	15,600	41.650	156.900	159.750	358.300
A9: Renewable Energy Promotion	P20: Accelerated development & Project management of hydropower	SP 20.1: Upgrading the potentialities of hydropower	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P20 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P21: Improving the energy mix in a positive eco-balance	SP 21.1: Promotion & Accelerated development of other forms of renewable energy for electrification	30,000	40,000	40,000	110,000	400,000	500,000	1 010.000
		P21 Program Total	30,000	40,000	40,000	110,000	400,000	500,000	1 010.000
		AXIS 9 TOTAL	30,000	40,000	40,000	110,000	400,000	500,000	1 010.000
A10: Improving access to modern energy services	P22: Rural and peri-urban electrification	P 22.1: Promotion and development of sustainable rural electrification	5,000	6,000	10,000	21,000	20,000	20,000	61,000
		P22 Program Total	5,000	6,000	10,000	21,000	20,000	20,000	61,000
	P23: Domestic alternative fuels to wood energy	P 23.1: Promotion of domestic butane fuel substitute for wood energy	20,000	30,000	50,000	100,000	100,000	105,000	305,000
		P23 Program Total	20,000	30,000	50,000	100,000	100,000	105,000	305,000
	P24: Rural access to modern energy	P 24.1: Multifunctional access platform for energy & driving forces	0,200	0,400	1,000	1,600	2,000	2,000	5,600
		P24 Program Total	0,200	0,400	1,000	1,600	2,000	2,000	5,600
		AXIS 10 TOTAL	25,200	36,400	61,000	122.600	122,000	127,000	371.600
A11: Development of a communication and advocacy strategy on climate change	P25: Development of a Regional Communication Strategy on Climate Change and Resilience.	SP 25.1: Development and implementation of a regional communication strategy	0,040	0,000	0,000	0,040	0,000	0,000	
		SP 25.2 Creation and Management of a Regional Portal "Climate Change and Resilience in the Sahel"	0,300	0,300	0,300	0,900	1,500	1,500	
		P25 program Total	0.340	0,300	0,300	0,940	1,500	1,500	0,000
	P26: Implementation of Advocacy	SP 26.1: Launch of a campaign "The Sahel is now!"	0,000	0,000	0,000	0,000	0,000	0,000	
		SP 26.2: Regional Gala of Excellence Held Annually	0,300	0,300	0,300	0,900	1,500	1,500	

AXIS	PROGRAMS	SUBPROGRAMS	MAURITANIA							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
		SP 26.3 Creation and management of a regional movement of youth " Sahel Volunteers"	0,000	0,000	0,000	0,000	0,000	0,000		
		P26 program Total	0,300	0,300	0,300	0,900	1,500	1,500	0,000	
		TOTAL AREA 11	0,640	0,600	0,600	1,840	3,000	3,000	0,000	
A12: Capacity reinforcement of communication and advocacy actors	P27: Capacity building at the individual level	27.1 SP: Capacity Building of media professionals	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 27.2: Capacity Building for Advocacy actors (opinion leaders)	0,000	0,100	0,100	0,200	0,500	0,500		
		27.3 SP: Capacity building of civil society actors	0,050	0,100	0,100	0,250	0,500	0,500		
		P27 Program Total	0,100	0,300	0,300	0,700	1,500	1,500	0,000	
	P28: Capacity building Organizationally	SP 28.1: Capacity Building of Press enterprises	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 28.2: Institutional capacity reinforcement (public services and ministry officials related to environmental issues).	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 28.3: Capacity Building of NGOs and Civil Society	0,050	0,100	0,100	0,250	0,500	0,500		
		P28 Program Total	0,150	0,300	0,300	0,750	1,500	1,500	0,000	
			AXIS 12 TOTAL	0,250	0,600	0,600	1,450	3,000	3,000	0,000
	A13: Capacity building of national institutions and frameworks in the area of climate change	P29: Countries capacity building in the field of climate change	SP 29.1: Institutional Capacities reinforcement	0,000	0,000	0,000	0,000	3,200	2,200	5,400
SP 29.2: Strengthening the Capacities of different stakeholder groups in the implementation of Multilateral Environmental Agreements (MEAs)			0,000	0,500	0,500	1,000	3,000	3,000	7,000	
SP 29.3 Institutional capacity building in the field of energy			3,000	4,000	3,750	10,750	0,000	0,000	10,750	
P29 Program Total			3,000	4,000	3,750	11,750	0,000	0,000	10,750	
		AXIS 13 TOTAL	3,000	4,000	3,750	11,750	0,000	0,000	10,750	
Axis 14: Strengthening climate information systems and the synergy between research and development structures	P 30: Production of information and means of popularizing information on climate change (National and regional scales)	SP 30.1. Strengthening of information generation capacity is climate change	0,000	0,500	0,500	1,000	2,000	2,000	5,000	
		SP 30.2. systems development and use of information is CC extension	0,000	0,500	0,500	1,000	1,500	1,500	4,000	
		P30 Program Total	0,000	1,000	1,000	2,000	3,500	3,500	9,000	
	P31: Capacity building of actors in the use of climate change	SP 31.1. Strengthening the Capacities of technical services to to use of information on climate change	0,000	0,500	0,500	1,000	1,000	1,000	3,000	

AXIS	PROGRAMS	SUBPROGRAMS	MAURITANIA							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
	information	SP 31.2. Strengthening private sector capacity, civil society and local communities in the use of information on climate change	0,000	0,500	0,500	1,000	1,500	1,500	4,000	
		P31 Program Total	0,000	1,000	1,000	2,000	2,500	2,500	7,000	
		AXIS 14 TOTAL	0,000	2,000	2,000	4,000	6,000	6,000	16,000	
Axis 15: Strengthening capacity to Mobilize financial and technical partnerships	P32: Frames capacity building in the field of negotiations	SP 32.1: Development of multi-year programs of national training frameworks in the field of negotiations				0,000			0,000	
		SP32.2: Implementation of executive training programs in the field of negotiations				0,000			0,000	
		P32 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000	
	P33: Improving access conditions to climate fund	SP33.1: Program for updating and translating NDCs (Nationally Determined Contribution) into programs and operational projects	0,100	0,100	0,100	0,300			0,300	
		SP33.2: Development and implementation of a Capacity Building Program for National Managers to Facilitate Access to Climate Funds	1,000	1,000	1,000	3,000			3,000	
		SP 33.3 Coordination by the Joint Working Group (JWG)	0,000	0,000	0,000	0,000			0,000	
		P33 Program Total	1,100	1,100	1,100	3,300	0,000	0,000	3,300	
	P34: Advocacy for Mobilizing technical and financial resources for regional organizations	34.1 SP: Advocacy of Basin Organizations	0,000	0,000	0,000	0,000			0,000	
		34.2 SP: Advocacy for regional organisms	0,000	0,000	0,000	0,000			0,000	
		P34 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000	
			AXIS 15 TOTAL	1,100	1,100	1,100	3,300	0,000	0,000	3,300
	CIP SR TOTAL			236.850	268.910	294.310	803.070	8 057.287	8 112.877	17 567.281

Annex 13: RPP and CIP SR of Niger²² (In US \$ million)

AXIS	PROGRAMS	SUBPROGRAMS	NIGER							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
A1: Restoration and rehabilitation of degraded lands and sensitive ecosystems	P1: Support to national and regional programs for land restoration	SP 1.1: Support to National Plans for land degradation neutrality and Their extension to the Region	0,000	0,500	0,500	1,000	2 266.346	2 266.346	4 533.693	
		SP 1.2: Support for the restoration of agricultural land in AIC's framework	0,000	0,500	0,500	1,000	126.700	126.700	254.400	
		SP 1.3: Development of "Economics of Land Degradation" and the Green Economy	0,000	0,500	0,500	1,000	7,000	7,000	15,000	
		P1 Program Total	0,000	1,500	1,500	3,000	2 400.046	2 400.046	4 803.093	
	P2: Integrated management of sensitive ecosystems significant for building resilience	SP 2.1: Protection and development of humid areas important for Ramsar's Convention	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		SP 2.2: Reconstruction and protection of delicate ecosystems in Sahel's Region (mangrove stands, tiger bush, basins and oases)	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		SP 2.3: Coastal areas Protection	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		P2 Program Total	0,000	1,000	1,000	3,000	265,000	265,000	798,000	
	AXIS 1 TOTAL			0,000	2,500	2,500	6,000	2 665.046	2 665.046	5 601.093
	A2: Carbon sequestration capacities reinforcement	P3: Reconstruction Support of major natural ecosystems for carbon sequestration	SP 3.1: Support of the rehabilitation of classified forests and other significant natural ecosystems	0,000	0,500	0,500	1,000	2 123.999	2 123.999	4 248.998
SP 3.2: Promoting the establishment and management of protected areas and national parks			0,000	0,500	0,500	1,000	2 123.999	2 123.999	4 248.998	
SP 3.3: Fight against deforestation (land clearing) and bushfires			0,000	0,500	0,500	1,000	212.400	212.400	425.800	
P3 Program Total			0,000	1,000	1,000	3,000	4 247.998	4 247.998	8 923.795	
P4: Reforestation plan promotion in the context of carbon sequestration		SP 4.1: Development and implementation of a state program of reforestation in the countries of the Sahel Region	0,000	0,500	0,500	1,000	525,000	525,000	1 051.000	
		SP 4.2: Promotion of operations "Village wood" in local communities and private plantations	0,000	0,500	0,500	1,000	3,500	3,500	8,000	
		P4 Program Total	0,000	1,000	1,000	2,000	528.500	528.500	1 059.000	
AXIS 2 TOTAL			0,000	2,000	2,000	5,000	4 776.498	4 776.498	9 982.795	
A3: knowledge Improvement and conservation / water resources management	P5: Support for Strengthening the knowledge of water field	SP 5.1: Research and development on water	0,000	0,000	0,000	0,000	0,000	0,000	0,000	
		SP 5.2: Establishment of databases on urban and village water works in the states	0,000	0,000	0,000	0,000	0,000	0,000	0,000	

²² It should be noted that the subprogram SP 33.3 "Coordination by the Joint Working Group (JWG)" is set only in Niger due to the coordinating role of the GTC plays in this country

AXIS	PROGRAMS	SUBPROGRAMS	NIGER						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
		SP 5.3: Setting up databases on hydrogeology and characteristics of groundwater resources.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P5 Program Total	0,000						
	P6: observation and monitoring of Surface water and groundwater resources	SP 6.1: Support to the dissemination of States meteorological observations results	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 6.2: Installation and Support for the Strengthening of water observatories in countries watersheds.	0,000	0,000	3,300	3,300	0,000	0,000	3,300
		SP 6.3: Support to the operationalization of the weather models in the States	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P6 Total Program	0,000	0,000	3,300	3,300	0,000	0,000	3,300
	P7: preservation and water resource management.	SP 7.1: Support for the results extension of States meteorological observation	0,000	0,282	2,200	2,482	0,000	0,000	2,482
		SP 7.2: Installation and Strengthening Support for the water observatories in countries watersheds.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 7.3: Support for the operationalization of weather forecast models in the States	0,000	0,000	0,000	0,000	75,000	75,000	150,000
		SP 7.4: Water Resources Mobilization	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P7 Program Total	0,000	0,282	2,200	2,482	75,000	75,000	152,482
		AXIS 3 TOTAL	0,000	0,282	5,500	5,782	75,000	75,000	155,782
A4: Access to drinking water and productive uses	P8: Urban and Rural Water Supply	SP 8.1: Populations Access to Drinking Water and Sanitation	0,000	0,000	16,500	16,500	1,650	0,000	18,150
		SP 8.2: Village Hydraulic Development and Building Resilience Against Climate Change in Rural Areas	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P8 Program Total	0,000	0,000	16,500	16,500	1,650	0,000	18,150
	P9: Hydraulic and pastoral farming	SP 9.1: Ponds and wells Development for livestock	0,000	0,000	0,000	0,000	3,040	0,000	3,040
		SP 9.2. : Rehabilitation or Construction of dams or reservoirs for irrigation Purposes	27,558	25,000	0,000	52,558	17,442	0,000	70,000
		P9 Program Total	27,558	25,000	0,000	52,558	20,482	0,000	73,040
		AXIS 4 TOTAL	27,558	25,000	16,500	69,058	22,132	0,000	91,190
A5: Strengthening inter-state	P10: Cooperation for water resources sharing	SP 10.1: Management of transboundary resources.	0,000	0,000	0,000	0,000	2,175	0,000	2,175

AXIS	PROGRAMS	SUBPROGRAMS	NIGER						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
cooperation for a synergy of action in water resources management	and management	SP 10.2: Water Charter between States bordering a basin.	0,000	2,200	0,000	2,200	0,000	0,000	2,200
		P10 Program Total	0,000	2,200	0,000	2,200	2,175	0,000	4.375
	P11: Implementation of regional guidelines and policies at the state level.	SP 11.1: Institutional Support	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 11.2: Regional, subregional and national capacity reinforcement.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P11 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		AXIS 5 TOTAL	0,000	2,200	0,000	2,200	2,175	0,000	4.375
Priority 6: Reduction of GHG(Greenhouse Gas effects) emissions in the agropastoral sector	P12: Promotion of low carbon agricultural production systems	SP 12.1: Sustainable management of soil fertility	55.412	55.412	55.412	166.235	290.911	374.028	831.173
		SP 12.2: Sustainable management of irrigation systems	55.412	55.412	55.412	166.235	290.911	374.028	831.173
		P12 Program Total	110.823	110.823	110.823	332.469	581.821	748.056	1 662.347
	P13: Promotion of low carbon animal production systems	SP 13.1: Promotion of integrated crop-livestock systems	55.412	55.412	55.412	166.235	290.911	374.028	831.173
		13.2 SP: Securing pastoral production systems	55.412	55.412	55.412	166.235	290.911	374.028	831.173
P13 Program Total		110.823	110.823	110.823	332.469	581.821	748.056	1 662.347	
		AXIS 6 TOTAL	221.646	221.646	221.646	664.939	1 163.643	1 496.112	3 324.694
Priority 7: Promotion of sustainable production systems in the context of adaptation to climate change	P14: Promotion of models for intensification of sustainable agricultural and livestock production	SP 14.1: Promotion of sustainable agricultural intensification models	55.412	55.412	55.412	166.235	290.911	374.028	831.173
		SP 14.2: Promotion of sustainable livestock production intensification models	55.412	55.412	55.412	166.235	290.911	374.028	831.173
		P14 Program Total	110.823	110.823	110.823	332.469	581.821	748.056	1 662.347
	P15: Restoration of agricultural and pastoral land	SP 15.1: Restoration of farmland	55.412	55.412	55.412	166.235	290.911	374.028	831.173
		SP 15.2: Restoring rangelands	55.412	55.412	55.412	166.235	290.911	374.028	831.173
		P15 Program Total	110.823	110.823	110.823	332.469	581.821	748.056	1 662.347
	P16: Management of agricultural and pastoral risk	SP 16.1: Promotion of insurance on agricultural and animal productions	55.412	55.412	55.412	166.235	290.911	374.028	831.173
SP 16.2: Improvement of knowledge and management of risks related to agricultural and livestock productions		55.412	55.412	55.412	166.235	290.911	374.028	831.173	
P16 program Total		110.823	110.823	110.823	332.469	581.821	748.056	1 662.347	
		AXIS 7 TOTAL	332.469	332.469	332.469	997.408	1 745.464	2 244.168	4 987.041
Axis 8: Improvement of overall energy efficiency	P17: Energy efficiency of biomass energy chains	SP 17.1: Promotion of Improved wood and charcoal stoves	1,800	1,800	2,000	5,600	5,000	4,600	15,200
		SP 17.2: Promotion of Improved Charcoal Production technology & production of charcoal	0,900	0,900	1,000	2,800	3,000	2,200	8,000
		SP 17.3: Development of alternative energy systems in forest fuel (biogas, biofuels, agroforestry residues, etc.)	0,000	0,000	0,000	0,000	10,000	14,000	24,000

AXIS	PROGRAMS	SUBPROGRAMS	NIGER						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
		P17 Program Total	2,700	2,700	3,000	8,400	18,000	20,800	47,200
	P18: Energy efficiency of the modes of production and transmission of electrical energy	18.1 SP: Technological upgrade of energy-consuming thermal power plants	0,000	0,000	0,000	0,000	85,000	100,000	185,000
		18.2 SP: Technological upgrade of transmission networks (transmission & distribution of electrical energy)	0,000	0,000	0,000	0,000	80,000	70,000	150,000
		18.3 SP: Promotion of Low Consumption Lamps (LCL) and public lighting through solar streetlights	15,000	25,000	40,000	80,000	85,000	85,000	250,000
		P18 Program Total	15,000	25,000	40,000	80,000	250,000	255,000	585,000
	P19: Control of energy demand	19.1 SP: Standardization, Certification & Optimization of demand for conventional energy	0,000	0,000	0,000	0,000	15,000	10,000	25,000
		P19 Program Total	0,000	0,000	0,000	0,000	15,000	10,000	25,000
		AXIS 8 TOTAL	17,700	27,700	43,000	88,400	283,000	285,800	657,200
A9: Renewable Energy Promotion	P20: Accelerated development & Project management of hydropower	SP 20.1: Upgrading the potentialities of hydropower	0,000	0,000	10,000	10,000	300,000	0,000	310,000
		P20 Program Total	0,000	0,000	10,000	10,000	300,000	0,000	310,000
	P21: Improving the energy mix in a positive eco-balance	SP 21.1: Promotion & Accelerated development of other forms of renewable energy for electrification	50,000	100,000	150,000	300,000	700,000	814,000	1 814,000
		P21 Program Total	50,000	100,000	150,000	300,000	700,000	814,000	1 814,000
		AXIS 9 TOTAL	50,000	100,000	160,000	310,000	1 000,000	814,000	2 124,000
A10: Improving access to modern energy services	P22: Rural and peri-urban electrification	P 22.1: Promotion and development of sustainable rural electrification	20,000	20,000	30,000	70,000	120,000	120,000	310,000
		P22 Program Total	20,000	20,000	30,000	70,000	120,000	120,000	310,000
	P23: Domestic alternative fuels to wood energy	P 23.1: Promotion of domestic butane fuel substitute for wood energy	3,000	3,000	5,000	11,000	50,000	60,000	121,000
		P23 Program Total	3,000	3,000	5,000	11,000	50,000	60,000	121,000
	P24: Rural access to modern energy	P 24.1: Multifunctional access platform for energy & driving forces	1,000	2,000	2,000	5,000	4,000	5,000	14,000
P24 Program Total		1,000	2,000	2,000	5,000	4,000	5,000	14,000	
		AXIS 10 TOTAL	24,000	25,000	37,000	86,000	174,000	185,000	445,000
A11: Development of a communication and advocacy strategy on climate change	P25: Development of a Regional Communication Strategy on Climate Change and Resilience.	SP 25.1: Development and implementation of a regional communication strategy	0,040	0,000	0,000	0,040	0,000	0,000	
		SP 25.2 Creation and Management of a Regional Portal "Climate Change and Resilience in the Sahel"	0,300	0,300	0,300	0,900	1,500	1,500	
		P25 program Total	0.340	0,300	0,300	0,940	1,500	1,500	0,000
	P26: Implementation of Advocacy	SP 26.1: Launch of a campaign "The Sahel is now!«	0,250	0,000	0,000	0,250	0,000	0,000	

AXIS	PROGRAMS	SUBPROGRAMS	NIGER							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
		SP 26.2: Regional Gala of Excellence Held Annually	0,300	0,300	0,300	0,900	1,500	1,500		
		SP 26.3 Creation and management of a regional movement of youth " Sahel Volunteers"	0,000	0,250	0,000	0,250	0,000	0,000		
		P26 program Total	0,550	0,550	0,300	1,400	1,500	1,500	0,000	
		TOTAL AREA 11	0,890	0,850	0,600	2,340	3,000	3,000	0,000	
A12: Capacity reinforcement of communication and advocacy actors	P27: Capacity building at the individual level	27.1 SP: Capacity Building of media professionals	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 27.2: Capacity Building for Advocacy actors (opinion leaders)	0,050	0,100	0,100	0,250	0,500	0,500		
		27.3 SP: Capacity building of civil society actors	0,050	0,100	0,100	0,250	0,500	0,500		
		P27 Program Total	0,150	0,300	0,300	0,750	1,500	1,500	0,000	
	P28: Capacity building Organizationally	SP 28.1: Capacity Building of Press enterprises	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 28.2: Institutional capacity reinforcement (public services and ministry officials related to environmental issues).	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 28.3: Capacity Building of NGOs and Civil Society	0,050	0,100	0,100	0,250	0,500	0,500		
		P28 Program Total	0,150	0,300	0,300	0,750	1,500	1,500	0,000	
			AXIS 12 TOTAL	0,300	0,600	0,600	1,500	3,000	3,000	0,000
	A13: Capacity building of national institutions and frameworks in the area of climate change	P29: Countries capacity building in the field of climate change	SP 29.1: Institutional Capacities reinforcement	0,000	10,000	10,000	20,000	3,200	2,200	25,400
SP 29.2: Strengthening the Capacities of different stakeholder groups in the implementation of Multilateral Environmental Agreements (MEAs)			0,000	0,500	0,500	1,000	3,000	3,000	7,000	
SP 29.3 Institutional capacity building in the field of energy			3,000	5,000	2,700	10,700	0,000	0,000	10,700	
P29 Program Total			3,000	5,000	2,700	31,700	0,000	0,000	10,700	
		AXIS 13 TOTAL	3,000	5,000	2,700	31,700	0,000	0,000	10,700	
Axis 14: Strengthening climate information systems and the synergy between research and development structures	P 30: Production of information and means of popularizing information on climate change (National and regional scales)	SP 30.1. Strengthening of information generation capacity is climate change	0,000	0,500	0,500	1,000	2,000	2,000	5,000	
		SP 30.2. systems development and use of information is CC extension	0,000	0,500	0,500	1,000	1,500	1,500	4,000	
		P30 Program Total	0,000	1,000	1,000	2,000	3,500	3,500	9,000	

AXIS	PROGRAMS	SUBPROGRAMS	NIGER							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
	P31: Capacity building of actors in the use of climate change information	SP 31.1. Strengthening the Capacities of technical services to to use of information on climate change	0,000	0,500	0,500	1,000	1,000	1,000	3,000	
		SP 31.2. Strengthening private sector capacity, civil society and local communities in the use of information on climate change	0,000	0,500	0,500	1,000	1,500	1,500	4,000	
		P31 Program Total	0,000	1,000	1,000	2,000	2,500	2,500	7,000	
		AXIS 14 TOTAL	0,000	2,000	2,000	4,000	6,000	6,000	16,000	
Axis 15: Strengthening capacity to Mobilize financial and technical partnerships	P32: Frames capacity building in the field of negotiations	SP 32.1: Development of multi-year programs of national training frameworks in the field of negotiations				0,000			0,000	
			SP32.2: Implementation of executive training programs in the field of negotiations				0,000			0,000
			P32 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P33: Improving access conditions to climate fund	SP33.1: Program for updating and translating NDCs (Nationally Determined Contribution) into programs and operational projects	0,100	0,100	0,100	0,300				0,300
			SP33.2: Development and implementation of a Capacity Building Program for National Managers to Facilitate Access to Climate Funds	1,000	1,000	1,000	3,000			3,000
			SP 33.3 Coordination by the Joint Working Group (JWG)	1,000	1,000	1,000	3,000	5,000	5,000	13,000
			P33 Program Total	2,100	2,100	2,100	6,300	5,000	5,000	16,300
	P34: Advocacy for Mobilizing technical and financial resources for regional organizations	34.1 SP: Advocacy of Basin Organizations	0,500	0,500	0,500	1,500				1,500
			34.2 SP: Advocacy for regional organisms	0,500	0,500	0,500	1,500			1,500
			P34 Program Total	1,000	1,000	1,000	3,000	0,000	0,000	3,000
			AXIS 15 TOTAL	3,100	3,100	3,100	9,300	5,000	5,000	19,300
CIP SR TOTAL			680.664	750.348	829.616	2 283.627	11 923.958	12 558.624	27 419.169	

Annex 14: RPP and CIP SR of Nigeria (in US \$ million)

AXIS	PROGRAMS	SUBPROGRAMS	NIGERIA							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
A1: Restoration and rehabilitation of degraded lands and sensitive ecosystems	P1: Support to national and regional programs for land restoration	SP 1.1: Support to National Plans for land degradation neutrality and Their extension to the Region	0,000	0,500	0,500	1,000	1 652.390	1 652.390	3 305.780	
		SP 1.2: Support for the restoration of agricultural land in AIC"s framework	0,000	0,500	0,500	1,000	92.377	92.377	185.754	
		SP 1.3: Development of "Economics of Land Degradation" and the Green Economy	0,000	0,500	0,500	1,000	7,000	7,000	15,000	
		P1 Program Total	0,000	1,500	1,500	3,000	1 751.767	1 751.767	3 506.534	
	P2: Integrated management of sensitive ecosystems significant for building resilience	SP 2.1: Protection and development of humid areas important for Ramsar's Convention	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		SP 2.2: Reconstruction and protection of delicate ecosystems in Sahel's Region (mangrove stands, tiger bush, basins and oases)	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		SP 2.3: Coastal areas Protection	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		P2 Program Total	0,000	1,000	1,000	3,000	265,000	265,000	798,000	
			AXIS 1 TOTAL	0,000	2,500	2,500	6,000	2 016.767	2 016.767	4 304.534
	A2: Carbon sequestration capacities reinforcement	P3:Reconstruction Support of major natural ecosystems for carbon sequestration	SP 3.1: Support of the rehabilitation of classified forests and other significant natural ecosystems	0,000	0,500	0,500	1,000	1 548.605	1 548.605	3 098.209
SP 3.2: Promoting the establishment and management of protected areas and national parks			0,000	0,500	0,500	1,000	1 548.605	1 548.605	3 098.209	
SP 3.3: Fight against deforestation (land clearing) and bushfires			0,000	0,500	0,500	1,000	154.860	154.860	310.721	
P3 Program Total			0,000	1,000	1,000	3,000	3 097.209	3 097.209	6 507.140	
P4: Reforestation plan promotion in the context of carbon sequestration		SP 4.1: Development and implementation of a state program of reforestation in the countries of the Sahel Region	0,000	0,500	0,500	1,000	525,000	525,000	1 051.000	
		SP 4.2: Promotion of operations "Village wood" in local communities and private plantations	0,000	0,500	0,500	1,000	3,500	3,500	8,000	
		P4 Program Total	0,000	1,000	1,000	2,000	528.500	528.500	1 059.000	
		AXIS 2 TOTAL	0,000	2,000	2,000	5,000	3 625.709	3 625.709	7 566.140	
A3: knowledge Improvement and conservation / water resources management	P5: Support for Strengthening the knowledge of water field	SP 5.1: Research and development on water	0,000	0,000	1,775	1,775	0,000	0,000	1,775	
		SP 5.2: Establishment of databases on urban and village water works in the states	0,000	0,000	0,000	0,000	0,000	0,000	0,000	

AXIS	PROGRAMS	SUBPROGRAMS	NIGERIA						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
		SP 5.3: Setting up databases on hydrogeology and characteristics of groundwater resources.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P5 Program Total	0,000	0,000	1,775	1,775	0,000	0,000	1,775
	P6: observation and monitoring of Surface water and groundwater resources	SP 6.1: Support to the dissemination of States meteorological observations results	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 6.2: Installation and Support for the Strengthening of water observatories in countries watersheds.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 6.3: Support to the operationalization of the weather models in the States	0,000	0,000	2,941	2,941	1,202	0,000	4,143
		P6 Total Program	0,000	0,000	2,941	2,941	1,202	0,000	4,143
	P7: preservation and water resource management.	SP 7.1: Support for the results extension of States meteorological observation	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 7.2: Installation and Strengthening Support for the water observatories in countries watersheds.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 7.3: Support for the operationalization of weather forecast models in the States	4,459	0,000	0,000	4,459	0,000	0,000	4,459
		SP 7.4: Water Resources Mobilization	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P7 Program Total	4,459	0,000	0,000	4,459	0,000	0,000	4,459
		AXIS 3 TOTAL	4,459	0,000	4,716	9,175	1,202	0,000	10,377
A4: Access to drinking water and productive uses	P8: Urban and Rural Water Supply	SP 8.1: Populations Access to Drinking Water and Sanitation	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 8.2: Village Hydraulic Development and Building Resilience Against Climate Change in Rural Areas	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P8 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P9: Hydraulic and pastoral farming	SP 9.1: Ponds and wells Development for livestock	4,583	0,000	0,000	4,583	0,000	0,000	4,583
SP 9.2: Rehabilitation or Construction of dams or reservoirs for irrigation Purposes		0,000	500,000	0,000	500,000	636.800	243.859	1 380.659	
P9 Program Total		4,583	500,000	0,000	504.583	636.800	243.859	1 385.242	
		AXIS 4 TOTAL	4,583	500,000	0,000	504.583	636.800	243.859	1 385.242
A5: Strengthening inter-state	P10: Cooperation for water resources sharing	SP 10.1: Management of transboundary resources.	0.090	0,000	0,000	0,090	0,000	0,000	0,090

AXIS	PROGRAMS	SUBPROGRAMS	NIGERIA						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
cooperation for a synergy of action in water resources management	and management	SP 10.2: Water Charter between States bordering a basin.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P10 Program Total	0.090	0,000	0,000	0.090	0,000	0,000	0.090
	P11: Implementation of regional guidelines and policies at the state level.	SP 11.1: Institutional Support	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 11.2: Regional, subregional and national capacity reinforcement.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P11 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		AXIS 5 TOTAL	0.090	0,000	0,000	0.090	0,000	0,000	0.090
Priority 6: Reduction of GHG(Greenhouse Gas effects) emissions in the agropastoral sector	P12: Promotion of low carbon agricultural production systems	SP 12.1: Sustainable management of soil fertility	492.487	492.487	492.487	1 477.460	2 585.555	3 324.285	7 387.300
		SP 12.2: Sustainable management of irrigation systems	492.487	492.487	492.487	1 477.460	2 585.555	3 324.285	7 387.300
		P12 Program Total	984.973	984.973	984.973	2 954.920	5 171.110	6 648.570	14 774.600
	P13: Promotion of low carbon animal production systems	SP 13.1: Promotion of integrated crop-livestock systems	492.487	492.487	492.487	1 477.460	2 585.555	3 324.285	7 387.300
		13.2 SP: Securing pastoral production systems	492.487	492.487	492.487	1 477.460	2 585.555	3 324.285	7 387.300
		P13 Program Total	984.973	984.973	984.973	2 954.920	5 171.110	6 648.570	14 774.600
		AXIS 6 TOTAL	1 969.947	1 969.947	1 969.947	5 909.840	10 342.220	13 297.140	29 549.201
Priority 7: Promotion of sustainable production systems in the context of adaptation to climate change	P14: Promotion of models for intensification of sustainable agricultural and livestock production	SP 14.1: Promotion of sustainable agricultural intensification models	492.487	492.487	492.487	1 477.460	2 585.555	3 324.285	7 387.300
		SP 14.2: Promotion of sustainable livestock production intensification models	492.487	492.487	492.487	1 477.460	2 585.555	3 324.285	7 387.300
		P14 Program Total	984.973	984.973	984.973	2 954.920	5 171.110	6 648.570	14 774.600
	P15: Restoration of agricultural and pastoral land	SP 15.1: Restoration of farmland	492.487	492.487	492.487	1 477.460	2 585.555	3 324.285	7 387.300
		SP 15.2: Restoring rangelands	492.487	492.487	492.487	1 477.460	2 585.555	3 324.285	7 387.300
		P15 Program Total	984.973	984.973	984.973	2 954.920	5 171.110	6 648.570	14 774.600
	P16: Management of agricultural and pastoral risk	SP 16.1: Promotion of insurance on agricultural and animal productions	492.487	492.487	492.487	1 477.460	2 585.555	3 324.285	7 387.300
		SP 16.2: Improvement of knowledge and management of risks related to agricultural and livestock productions	492.487	492.487	492.487	1 477.460	2 585.555	3 324.285	7 387.300
		P16 program Total	984.973	984.973	984.973	2 954.920	5 171.110	6 648.570	14 774.600
		AXIS 7 TOTAL	2 954.920	2 954.920	2 954.920	8 864.760	15 513.330	19 945.711	44 323.801
Axis 8: Improvement of overall energy efficiency	P17: Energy efficiency of biomass energy chains	SP 17.1: Promotion of Improved wood and charcoal stoves	10,000	12,000	14,000	36,000	48,000	47,000	131,000
		SP 17.2: Promotion of Improved Charcoal Production technology & production of charcoal	4,500	4,500	5,000	14,000	11,000	10,000	35,000

AXIS	PROGRAMS	SUBPROGRAMS	NIGERIA						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
		SP 17.3: Development of alternative energy systems in forest fuel (biogas, biofuels, agroforestry residues, etc.)	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P17 Program Total	14,500	16,500	19,000	50,000	59,000	57,000	166,000
	P18: Energy efficiency of the modes of production and transmission of electrical energy	18.1 SP: Technological upgrade of energy-consuming thermal power plants	0,000	0,000	0,000	0,000	900,000	900,000	1 800,000
		18.2 SP: Technological upgrade of transmission networks (transmission & distribution of electrical energy)	0,000	0,000	0,000	0,000	300,000	250,000	550,000
		18.3 SP: Promotion of Low Consumption Lamps (LCL) and public lighting through solar streetlights	130,000	130,000	130,000	390,000	380,000	380,000	1 150,000
		P18 Program Total	130,000	130,000	130,000	390,000	1 580,000	1 530,000	3 500,000
	P19: Control of energy demand	19.1 SP: Standardization, Certification & Optimization of demand for conventional energy	0,000	0,000	0,000	0,000	90,000	70,000	160,000
		P19 Program Total	0,000	0,000	0,000	0,000	90,000	70,000	160,000
		AXIS 8 TOTAL	144,500	146,500	149,000	440,000	1 729,000	1 657,000	3 826,000
A9: Renewable Energy Promotion	P20: Accelerated development & Project management of hydropower	SP 20.1: Upgrading the potentialities of hydropower	300,000	400,000	750,000	1 450,000	1 700,000	1 900,000	5 050,000
		P20 Program Total	300,000	400,000	750,000	1 450,000	1 700,000	1 900,000	5 050,000
	P21: Improving the energy mix in a positive eco-balance	SP 21.1: Promotion & Accelerated development of other forms of renewable energy for electrification	20,000	25,000	32,000	77,000	600,000	800,000	1 477,000
		P21 Program Total	20,000	25,000	32,000	77,000	600,000	800,000	1 477,000
		AXIS 9 TOTAL	320,000	425,000	782,000	1 527,000	2 300,000	2 700,000	6 527,000
A10: Improving access to modern energy services	P22: Rural and peri-urban electrification	P 22.1: Promotion and development of sustainable rural electrification	80,000	80,000	120,000	280,000	360,000	436,000	1 076,000
		P22 Program Total	80,000	80,000	120,000	280,000	360,000	436,000	1 076,000
	P23: Domestic alternative fuels to wood energy	P 23.1: Promotion of domestic butane fuel substitute for wood energy	30,000	30,000	40,000	100,000	250,000	300,000	650,000
		P23 Program Total	30,000	30,000	40,000	100,000	250,000	300,000	650,000
	P24: Rural access to modern energy	P 24.1: Multifunctional access platform for energy & driving forces	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P24 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		AXIS 10 TOTAL	110,000	110,000	160,000	380,000	610,000	736,000	1 726,000
A11: Development of a communication and advocacy	P25: Development of a Regional Communication	SP 25.1: Development and implementation of a regional communication strategy	0,040	0,000	0,000	0,040	0,000	0,000	

AXIS	PROGRAMS	SUBPROGRAMS	NIGERIA							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
strategy on climate change	Strategy on Climate Change and Resilience.	SP 25.2 Creation and Management of a Regional Portal "Climate Change and Resilience in the Sahel"	0,300	0,300	0,300	0,900	1,500	1,500		
		P25 program Total	0,340	0,300	0,300	0,940	1,500	1,500	0,000	
	P26: Implementation of Advocacy	SP 26.1: Launch of a campaign "The Sahel is now!»	0,000	0,000	0,000	0,000	0,000	0,000		
		SP 26.2: Regional Gala of Excellence Held Annually	0,300	0,300	0,300	0,900	1,500	1,500		
		SP 26.3 Creation and management of a regional movement of youth " Sahel Volunteers"	0,000	0,000	0,000	0,000	0,000	0,000		
	P26 program Total	0,300	0,300	0,300	0,900	1,500	1,500	0,000		
		TOTAL AREA 11	0,640	0,600	0,600	1,840	3,000	3,000	0,000	
A12: Capacity reinforcement of communication and advocacy actors	P27: Capacity building at the individual level	27.1 SP: Capacity Building of media professionals	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 27.2: Capacity Building for Advocacy actors (opinion leaders)	0,000	0,100	0,100	0,200	0,500	0,500		
		27.3 SP: Capacity building of civil society actors	0,050	0,100	0,100	0,250	0,500	0,500		
		P27 Program Total	0,100	0,300	0,300	0,700	1,500	1,500	0,000	
	P28: Capacity building Organizationally	SP 28.1: Capacity Building of Press enterprises	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 28.2: Institutional capacity reinforcement (public services and ministry officials related to environmental issues).	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 28.3: Capacity Building of NGOs and Civil Society	0,050	0,100	0,100	0,250	0,500	0,500		
		P28 Program Total	0,150	0,300	0,300	0,750	1,500	1,500	0,000	
			AXIS 12 TOTAL	0,250	0,600	0,600	1,450	3,000	3,000	0,000
	A13: Capacity building of national institutions and frameworks in the area of climate change	P29: Countries capacity building in the field of climate change	SP 29.1: Institutional Capacities reinforcement	0,000	0,000	0,000	0,000	3,200	2,200	5,400
SP 29.2: Strengthening the Capacities of different stakeholder groups in the implementation of Multilateral Environmental Agreements (MEAs)			0,000	0,500	0,500	1,000	3,000	3,000	7,000	
SP 29.3 Institutional capacity building in the field of energy			7,000	8,000	16,500	31,500	0,000	0,000	31,500	
P29 Program Total			7,000	8,000	16,500	32,500	0,000	0,000	31,500	
		AXIS 13 TOTAL	7,000	8,000	16,500	32,500	0,000	0,000	31,500	

AXIS	PROGRAMS	SUBPROGRAMS	NIGERIA						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
Axis 14: Strengthening climate information systems and the synergy between research and development structures	P 30: Production of information and means of popularizing information on climate change (National and regional scales)	SP 30.1. Strengthening of information generation capacity is climate change	0,000	0,500	0,500	1,000	2,000	2,000	5,000
		SP 30.2. systems development and use of information is CC extension	0,000	0,500	0,500	1,000	1,500	1,500	4,000
		P30 Program Total	0,000	1,000	1,000	2,000	3,500	3,500	9,000
	P31: Capacity building of actors in the use of climate change information	SP 31.1. Strengthening the Capacities of technical services to to use of information on climate change	0,000	0,500	0,500	1,000	1,000	1,000	3,000
		SP 31.2. Strengthening private sector capacity, civil society and local communities in the use of information on climate change	0,000	0,500	0,500	1,000	1,500	1,500	4,000
		P31 Program Total	0,000	1,000	1,000	2,000	2,500	2,500	7,000
			AXIS 14 TOTAL	0,000	2,000	2,000	4,000	6,000	6,000
Axis 15: Strengthening capacity to Mobilize financial and technical partnerships	P32: Frames capacity building in the field of negotiations	SP 32.1: Development of multi-year programs of national training frameworks in the field of negotiations				0,000			0,000
		SP32.2: Implementation of executive training programs in the field of negotiations				0,000			0,000
		P32 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P33: Improving access conditions to climate fund	SP33.1: Program for updating and translating NDCs (Nationally Determined Contribution) into programs and operational projects	0,100	0,100	0,100	0,300			0,300
		SP33.2: Development and implementation of a Capacity Building Program for National Managers to Facilitate Access to Climate Funds	1,000	1,000	1,000	3,000			3,000
		SP 33.3 Coordination by the Joint Working Group (JWG)	0,000	0,000	0,000	0,000			0,000
		P33 Program Total	1,100	1,100	1,100	3,300	0,000	0,000	3,300
	P34: Advocacy for Mobilizing technical and financial resources for regional organizations	34.1 SP: Advocacy of Basin Organizations	0,000	0,000	0,000	0,000			0,000
		34.2 SP: Advocacy for regional organisms	0,000	0,000	0,000	0,000			0,000
		P34 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		AXIS 15 TOTAL	1,100	1,100	1,100	3,300	0,000	0,000	3,300
CIP SR TOTAL			5 517.489	6 123.167	6 045.883	17 689.539	36 787.029	44 234.186	99 269.184

Appendix 15: RPP and CIP SR of Senegal (US \$ Million)

AXIS	PROGRAMS	SUBPROGRAMS	SENEGAL							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
A1: Restoration and rehabilitation of degraded lands and sensitive ecosystems	P1: Support to national and regional programs for land restoration	SP 1.1: Support to National Plans for land degradation neutrality and Their extension to the Region	0,000	0,500	0,500	1,000	351.869	351.869	704.737	
		SP 1.2: Support for the restoration of agricultural land in AIC's framework	0,000	0,500	0,500	1,000	19.671	19.671	40.342	
		SP 1.3: Development of "Economics of Land Degradation" and the Green Economy	0,000	0,500	0,500	1,000	7,000	7,000	15,000	
		P1 Program Total	0,000	1,500	1,500	3,000	378.540	378.540	760.080	
	P2: Integrated management of sensitive ecosystems significant for building resilience	SP 2.1: Protection and development of humid areas important for Ramsar's Convention	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		SP 2.2: Reconstruction and protection of delicate ecosystems in Sahel's Region (mangrove stands, tiger bush, basins and oases)	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		SP 2.3: Coastal areas Protection	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		P2 Program Total	0,000	1,000	1,000	3,000	265,000	265,000	798,000	
	AXIS 1 TOTAL			0,000	2,500	2,500	6,000	643.540	643.540	1 558.080
	A2: Carbon sequestration capacities reinforcement	P3: Reconstruction Support of major natural ecosystems for carbon sequestration	SP 3.1: Support of the rehabilitation of classified forests and other significant natural ecosystems	0,000	0,500	0,500	1,000	329.768	329.768	660.536
SP 3.2: Promoting the establishment and management of protected areas and national parks			0,000	0,500	0,500	1,000	329.768	329.768	660.536	
SP 3.3: Fight against deforestation (land clearing) and bushfires			0,000	0,500	0,500	1,000	32.977	32.977	66.954	
P3 Program Total			0,000	1,000	1,000	3,000	659.536	659.536	1 388.026	
P4: Reforestation plan promotion in the context of carbon sequestration		SP 4.1: Development and implementation of a state program of reforestation in the countries of the Sahel Region	0,000	0,500	0,500	1,000	525,000	525,000	1 051.000	
		SP 4.2: Promotion of operations "Village wood" in local communities and private plantations	0,000	0,500	0,500	1,000	3,500	3,500	8,000	
		P4 Program Total	0,000	1,000	1,000	2,000	528.500	528.500	1 059.000	
AXIS 2 TOTAL			0,000	2,000	2,000	5,000	1 188.036	1 188.036	2 447.026	
A3: knowledge Improvement and conservation / water resources management	P5: Support for Strengthening the knowledge of water field	SP 5.1: Research and development on water	0,000	0,000	0.322	0.322	0.814	0.559	1,695	
		SP 5.2: Establishment of databases on urban and village water works in the states	0,000	0,000	0,000	0,000	0,000	0,000	0,000	

AXIS	PROGRAMS	SUBPROGRAMS	SENEGAL						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
		SP 5.3: Setting up databases on hydrogeology and characteristics of groundwater resources.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P5 Program Total	0,000	0,000	0,322	0,322	0,814	0,559	1,695
	P6: observation and monitoring of Surface water and groundwater resources	SP 6.1: Support to the dissemination of States meteorological observations results	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 6.2: Installation and Support for the Strengthening of water observatories in countries watersheds.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 6.3: Support to the operationalization of the weather models in the States	0,000	0,000	1,102	1,102	0,000	0,000	1,102
		P6 Total Program	0,000	0,000	1,102	1,102	0,000	0,000	1,102
	P7: preservation and water resource management.	SP 7.1: Support for the results extension of States meteorological observation	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 7.2: Installation and Strengthening Support for the water observatories in countries watersheds.	0,000	0,000	3,390	3,390	0,000	0,000	3,390
		SP 7.3: Support for the operationalization of weather forecast models in the States	0,000	0,838	0,000	0,838	0,000	0,000	0,838
		SP 7.4: Water Resources Mobilization	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P7 Program Total	0,000	0,838	3,390	4,228	0,000	0,000	4,228
		AXIS 3 TOTAL	0,000	0,838	4,814	5,652	0,814	0,559	7,025
A4: Access to drinking water and productive uses	P8: Urban and Rural Water Supply	SP 8.1: Populations Access to Drinking Water and Sanitation	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 8.2: Village Hydraulic Development and Building Resilience Against Climate Change in Rural Areas	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P8 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P9: Hydraulic and pastoral farming	SP 9.1: Ponds and wells Development for livestock	0,000	0,000	0,000	0,000	0,000	0,000	0,000
SP 9.2: Rehabilitation or Construction of dams or reservoirs for irrigation Purposes		0,000	0,000	0,000	0,000	14.394	19.081	33.475	
P9 Program Total		0,000	0,000	0,000	0,000	14.394	19.081	33.475	
		AXIS 4 TOTAL	0,000	0,000	0,000	0,000	14.394	19.081	33.475
A5: Strengthening inter-state cooperation for a synergy of action in water	P10: Cooperation for water resources sharing and management	SP 10.1: Management of transboundary resources.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 10.2: Water Charter between States bordering a basin.	0,000	0,000	0,000	0,000	0,000	0,000	0,000

AXIS	PROGRAMS	SUBPROGRAMS	SENEGAL						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
resources management		P10 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P11: Implementation of regional guidelines and policies at the state level.	SP 11.1: Institutional Support	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 11.2: Regional, subregional and national capacity reinforcement.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P11 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		AXIS 5 TOTAL	0,000	0,000	0,000	0,000	0,000	0,000	
Priority 6: Reduction of GHG(Greenhouse Gas effects) emissions in the agropastoral sector	P12: Promotion of low carbon agricultural production systems	SP 12.1: Sustainable management of soil fertility	40.894	40.894	40.894	122.683	214.696	276.038	613.417
		SP 12.2: Sustainable management of irrigation systems	40.894	40.894	40.894	122.683	214.696	276.038	613.417
		P12 Program Total	81.789	81.789	81.789	245.367	429.392	552.075	1 226.834
	P13: Promotion of low carbon animal production systems	SP 13.1: Promotion of integrated crop-livestock systems	40.894	40.894	40.894	122.683	214.696	276.038	613.417
		13.2 SP: Securing pastoral production systems	40.894	40.894	40.894	122.683	214.696	276.038	613.417
		P13 Program Total	81.789	81.789	81.789	245.367	429.392	552.075	1 226.834
		AXIS 6 TOTAL	163.578	163.578	163.578	490.734	858.784	1 104.151	2 453.668
Priority 7: Promotion of sustainable production systems in the context of adaptation to climate change	P14: Promotion of models for intensification of sustainable agricultural and livestock production	SP 14.1: Promotion of sustainable agricultural intensification models	40.894	40.894	40.894	122.683	214.696	276.038	613.417
		SP 14.2: Promotion of sustainable livestock production intensification models	40.894	40.894	40.894	122.683	214.696	276.038	613.417
		P14 Program Total	81.789	81.789	81.789	245.367	429.392	552.075	1 226.834
	P15: Restoration of agricultural and pastoral land	SP 15.1: Restoration of farmland	40.894	40.894	40.894	122.683	214.696	276.038	613.417
		SP 15.2: Restoring rangelands	40.894	40.894	40.894	122.683	214.696	276.038	613.417
		P15 Program Total	81.789	81.789	81.789	245.367	429.392	552.075	1 226.834
	P16: Management of agricultural and pastoral risk	SP 16.1: Promotion of insurance on agricultural and animal productions	40.894	40.894	40.894	122.683	214.696	276.038	613.417
		SP 16.2: Improvement of knowledge and management of risks related to agricultural and livestock productions	40.894	40.894	40.894	122.683	214.696	276.038	613.417
		P16 program Total	81.789	81.789	81.789	245.367	429.392	552.075	1 226.834
		AXIS 7 TOTAL	245.367	245.367	245.367	736.100	1 288.176	1 656.226	3 680.502
Axis 8: Improvement of overall energy efficiency	P17: Energy efficiency of biomass energy chains	SP 17.1: Promotion of Improved wood and charcoal stoves	1,000	1,000	1,000	3,000	3,000	3,000	9,000
		SP 17.2: Promotion of Improved Charcoal Production technology & production of charcoal	0,900	0,900	1,000	2,800	2,200	2,000	7,000
		SP 17.3: Development of alternative energy systems in forest fuel (biogas, biofuels, agroforestry residues, etc.)	0,000	0,000	0,000	0,000	10,000	14,000	24,000
		P17 Program Total	1,900	1,900	2,000	5,800	15,200	19,000	40,000

AXIS	PROGRAMS	SUBPROGRAMS	SENEGAL						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
	P18: Energy efficiency of the modes of production and transmission of electrical energy	18.1 SP: Technological upgrade of energy-consuming thermal power plants	0,000	0,000	0,000	0,000	60,000	50,000	110,000
		18.2 SP: Technological upgrade of transmission networks (transmission & distribution of electrical energy)	0,000	0,000	0,000	0,000	40,000	30,000	70,000
		18.3 SP: Promotion of Low Consumption Lamps (LCL) and public lighting through solar streetlights	15,000	20,000	25,000	60,000	60,000	76,000	196,000
		P18 Program Total	15,000	20,000	25,000	60,000	160,000	156,000	376,000
	P19: Control of energy demand	19.1 SP: Standardization, Certification & Optimization of demand for conventional energy	0,000	0,000	0,000	0,000	10,000	5,000	15,000
		P19 Program Total	0,000	0,000	0,000	0,000	10,000	5,000	15,000
		AXIS 8 TOTAL	16,900	21,900	27,000	65,800	185,200	180,000	431,000
A9: Renewable Energy Promotion	P20: Accelerated development & Project management of hydropower	SP 20.1: Upgrading the potentialities of hydropower	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P20 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P21: Improving the energy mix in a positive eco-balance	SP 21.1: Promotion & Accelerated development of other forms of renewable energy for electrification	20,000	30,000	60,000	110,000	475,000	800,000	1 385,000
		P21 Program Total	20,000	30,000	60,000	110,000	475,000	800,000	1 385,000
		AXIS 9 TOTAL	20,000	30,000	60,000	110,000	475,000	800,000	1 385,000
A10: Improving access to modern energy services	P22: Rural and peri-urban electrification	P 22.1: Promotion and development of sustainable rural electrification	20,000	20,000	37,000	77,000	70,000	70,000	217,000
		P22 Program Total	20,000	20,000	37,000	77,000	70,000	70,000	217,000
	P23: Domestic alternative fuels to wood energy	P 23.1: Promotion of domestic butane fuel substitute for wood energy	20,000	30,000	55,000	105,000	105,000	105,000	315,000
		P23 Program Total	20,000	30,000	55,000	105,000	105,000	105,000	315,000
	P24: Rural access to modern energy	P 24.1: Multifunctional access platform for energy & driving forces	0,300	0,300	0,300	0,900	3,000	3,000	6,900
		P24 Program Total	0,300	0,300	0,300	0,900	3,000	3,000	6,900
		AXIS 10 TOTAL	40,300	50,300	92,300	182,900	178,000	178,000	538,900
A11: Development of a communication and advocacy strategy on climate change	P25: Development of a Regional Communication Strategy on Climate Change and Resilience.	SP 25.1: Development and implementation of a regional communication strategy	0,040	0,000	0,000	0,040	0,000	0,000	
		SP 25.2 Creation and Management of a Regional Portal "Climate Change and Resilience in the Sahel"	0,300	0,300	0,300	0,900	1,500	1,500	
		P25 program Total	0,340	0,300	0,300	0,940	1,500	1,500	0,000
	P26: Implementation of Advocacy	SP 26.1: Launch of a campaign "The Sahel is now!"	0,000	0,000	0,000	0,000	0,000	0,000	
		SP 26.2: Regional Gala of Excellence Held Annually	0,300	0,300	0,300	0,900	1,500	1,500	

AXIS	PROGRAMS	SUBPROGRAMS	SENEGAL							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
		SP 26.3 Creation and management of a regional movement of youth " Sahel Volunteers"	0,000	0,000	0,000	0,000	0,000	0,000		
		P26 program Total	0,300	0,300	0,300	0,900	1,500	1,500	0,000	
		TOTAL AREA 11	0,640	0,600	0,600	1,840	3,000	3,000	0,000	
A12: Capacity reinforcement of communication and advocacy actors	P27: Capacity building at the individual level	27.1 SP: Capacity Building of media professionals	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 27.2: Capacity Building for Advocacy actors (opinion leaders)	0,000	0,100	0,100	0,200	0,500	0,500		
		27.3 SP: Capacity building of civil society actors	0,050	0,100	0,100	0,250	0,500	0,500		
		P27 Program Total	0,100	0,300	0,300	0,700	1,500	1,500	0,000	
	P28: Capacity building Organizationally	SP 28.1: Capacity Building of Press enterprises	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 28.2: Institutional capacity reinforcement (public services and ministry officials related to environmental issues).	0,050	0,100	0,100	0,250	0,500	0,500		
		SP 28.3: Capacity Building of NGOs and Civil Society	0,050	0,100	0,100	0,250	0,500	0,500		
		P28 Program Total	0,150	0,300	0,300	0,750	1,500	1,500	0,000	
			AXIS 12 TOTAL	0,250	0,600	0,600	1,450	3,000	3,000	0,000
	A13: Capacity building of national institutions and frameworks in the area of climate change	P29: Countries capacity building in the field of climate change	SP 29.1: Institutional Capacities reinforcement	0,000	0,000	0,000	0,000	3,200	2,200	5,400
SP 29.2: Strengthening the Capacities of different stakeholder groups in the implementation of Multilateral Environmental Agreements (MEAs)			0,000	0,500	0,500	1,000	3,000	3,000	7,000	
SP 29.3 Institutional capacity building in the field of energy			2,000	3,000	4,750	9,750	0,000	0,000	9,750	
P29 Program Total			2,000	3,000	4,750	10,750	0,000	0,000	9,750	
		AXIS 13 TOTAL	2,000	3,000	4,750	10,750	0,000	0,000	9,750	
Axis 14: Strengthening climate information systems and the synergy between research and development structures	P 30: Production of information and means of popularizing information on climate change (National and regional scales)	SP 30.1. Strengthening of information generation capacity is climate change	0,000	0,500	0,500	1,000	2,000	2,000	5,000	
		SP 30.2. systems development and use of information is CC extension	0,000	0,500	0,500	1,000	1,500	1,500	4,000	
		P30 Program Total	0,000	1,000	1,000	2,000	3,500	3,500	9,000	
	P31: Capacity building of actors in the use of climate change	SP 31.1. Strengthening the Capacities of technical services to to use of information on climate change	0,000	0,500	0,500	1,000	1,000	1,000	3,000	

AXIS	PROGRAMS	SUBPROGRAMS	SENEGAL							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
	information	SP 31.2. Strengthening private sector capacity, civil society and local communities in the use of information on climate change	0,000	0,500	0,500	1,000	1,500	1,500	4,000	
		P31 Program Total	0,000	1,000	1,000	2,000	2,500	2,500	7,000	
		AXIS 14 TOTAL	0,000	2,000	2,000	4,000	6,000	6,000	16,000	
Axis 15: Strengthening capacity to Mobilize financial and technical partnerships	P32: Frames capacity building in the field of negotiations	SP 32.1: Development of multi-year programs of national training frameworks in the field of negotiations				0,000			0,000	
		SP32.2: Implementation of executive training programs in the field of negotiations				0,000			0,000	
		P32 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000	
	P33: Improving access conditions to climate fund	SP33.1: Program for updating and translating NDCs (Nationally Determined Contribution) into programs and operational projects	0,100	0,100	0,100	0,300			0,300	
		SP33.2: Development and implementation of a Capacity Building Program for National Managers to Facilitate Access to Climate Funds	1,000	1,000	1,000	3,000			3,000	
		SP 33.3 Coordination by the Joint Working Group (JWG)	0,000	0,000	0,000	0,000			0,000	
		P33 Program Total	1,100	1,100	1,100	3,300	0,000	0,000	3,300	
	P34: Advocacy for Mobilizing technical and financial resources for regional organizations	34.1 SP: Advocacy of Basin Organizations	0,000	0,000	0,000	0,000			0,000	
		34.2 SP: Advocacy for regional organisms	0,000	0,000	0,000	0,000			0,000	
		P34 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000	
			AXIS 15 TOTAL	1,100	1,100	1,100	3,300	0,000	0,000	3,300
	CIP SR TOTAL			490.135	523.783	606.608	1 623.526	4 843.943	5 781.592	12 563.725

Annex 16: RPP and CIP SR of Sudan (in US \$ million)

AXIS	PROGRAMS	SUBPROGRAMS	SUDAN							
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR	
A1: Restoration and rehabilitation of degraded lands and sensitive ecosystems	P1: Support to national and regional programs for land restoration	SP 1.1: Support to National Plans for land degradation neutrality and Their extension to the Region	0,000	0,500	0,500	1,000	3 373.583	3 373.583	6 748.165	
		SP 1.2: Support for the restoration of agricultural land in AIC's framework	0,000	0,500	0,500	1,000	188.600	188.600	378.200	
		SP 1.3: Development of "Economics of Land Degradation" and the Green Economy	0,000	0,500	0,500	1,000	7,000	7,000	15,000	
		P1 Program Total	0,000	1,500	1,500	3,000	3 569.183	3 569.183	7 141.365	
	P2: Integrated management of sensitive ecosystems significant for building resilience	SP 2.1: Protection and development of humid areas important for Ramsar's Convention	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		SP 2.2: Reconstruction and protection of delicate ecosystems in Sahel's Region (mangrove stands, tiger bush, basins and oases)	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		SP 2.3: Coastal areas Protection	0,000	0,500	0,500	1,000	132,500	132,500	266,000	
		P2 Program Total	0,000	1,000	1,000	3,000	265,000	265,000	798,000	
			AXIS 1 TOTAL	0,000	2,500	2,500	6,000	3 834.183	3 834.183	7 939.365
	A2: Carbon sequestration capacities reinforcement	P3: Reconstruction Support of major natural ecosystems for carbon sequestration	SP 3.1: Support of the rehabilitation of classified forests and other significant natural ecosystems	0,000	0,500	0,500	1,000	3 161.690	3 161.690	6 324.381
SP 3.2: Promoting the establishment and management of protected areas and national parks			0,000	0,500	0,500	1,000	3 161.690	3 161.690	6 324.381	
SP 3.3: Fight against deforestation (land clearing) and bushfires			0,000	0,500	0,500	1,000	316.169	316.169	633.338	
P3 Program Total			0,000	1,000	1,000	3,000	6 323.381	6 323.381	13 282.100	
P4: Reforestation plan promotion in the context of carbon sequestration		SP 4.1: Development and implementation of a state program of reforestation in the countries of the Sahel Region	0,000	0,500	0,500	1,000	525,000	525,000	1 051.000	
		SP 4.2: Promotion of operations "Village wood" in local communities and private plantations	0,000	0,500	0,500	1,000	3,500	3,500	8,000	
		P4 Program Total	0,000	1,000	1,000	2,000	528.500	528.500	1 059.000	
		AXIS 2 TOTAL	0,000	2,000	2,000	5,000	6 851.881	6 851.881	14 341.100	
A3: knowledge Improvement and conservation / water resources management	P5: Support for Strengthening the knowledge of water field	SP 5.1: Research and development on water	0,000	0,000	0,000	0,000	0,000	0,000	0,000	
		SP 5.2: Establishment of databases on urban and village water works in the states	0,000	0,000	0,000	0,000	0,000	0,000	0,000	

AXIS	PROGRAMS	SUBPROGRAMS	SUDAN						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
		SP 5.3: Setting up databases on hydrogeology and characteristics of groundwater resources.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P5 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P6: observation and monitoring of Surface water and groundwater resources	SP 6.1: Support to the dissemination of States meteorological observations results	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 6.2: Installation and Support for the Strengthening of water observatories in countries watersheds.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 6.3: Support to the operationalization of the weather models in the States	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P6 Total Program	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P7: preservation and water resource management.	SP 7.1: Support for the results extension of States meteorological observation	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 7.2: Installation and Strengthening Support for the water observatories in countries watersheds.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 7.3: Support for the operationalization of weather forecast models in the States	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 7.4: Water Resources Mobilization	0.655	2,565	3,360	6,580	3,720	3,720	14,020
		P7 Program Total	0.655	2,565	3,360	6,580	3,720	3,720	14,020
		AXIS 3 TOTAL	0.655	2,565	3,360	6,580	3,720	3,720	14,020
A4: Access to drinking water and productive uses	P8: Urban and Rural Water Supply	SP 8.1: Populations Access to Drinking Water and Sanitation	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 8.2: Village Hydraulic Development and Building Resilience Against Climate Change in Rural Areas	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P8 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P9: Hydraulic and pastoral farming	SP 9.1: Ponds and wells Development for livestock	0,000	0,000	0,000	0,000	0,000	80,000	80,000
		SP 9.2: Rehabilitation or Construction of dams or reservoirs for irrigation Purposes	0,000	0,000	250,000	250,000	4,200	0,000	254,200
		P9 Program Total	0,000	0,000	250,000	250,000	4,200	80,000	334,200
		AXIS 4 TOTAL	0,000	0,000	250,000	250,000	4,200	80,000	334,200
A5: Strengthening inter-state	P10: Cooperation for water resources sharing	SP 10.1: Management of transboundary resources.	0,000	0,000	0,000	0,000	0,000	0,000	0,000

AXIS	PROGRAMS	SUBPROGRAMS	SUDAN						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
cooperation for a synergy of action in water resources management	and management	SP 10.2: Water Charter between States bordering a basin.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P10 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P11: Implementation of regional guidelines and policies at the state level.	SP 11.1: Institutional Support	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 11.2: Regional, subregional and national capacity reinforcement.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P11 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		AXIS 5 TOTAL	0,000	0,000	0,000	0,000	0,000	0,000	
Priority 6: Reduction of GHG(Greenhouse Gas effects) emissions in the agropastoral sector	P12: Promotion of low carbon agricultural production systems	SP 12.1: Sustainable management of soil fertility	104.576	104.576	104.576	313.728	549.024	705.888	1 568.640
		SP 12.2: Sustainable management of irrigation systems	104.576	104.576	104.576	313.728	549.024	705.888	1 568.640
		P12 Program Total	209.152	209.152	209.152	627.456	1 098.048	1 411.776	3 137.280
	P13: Promotion of low carbon animal production systems	SP 13.1: Promotion of integrated crop-livestock systems	104.576	104.576	104.576	313.728	549.024	705.888	1 568.640
		13.2 SP: Securing pastoral production systems	104.576	104.576	104.576	313.728	549.024	705.888	1 568.640
		P13 Program Total	209.152	209.152	209.152	627.456	1 098.048	1 411.776	3 137.280
			AXIS 6 TOTAL	418.304	418.304	418.304	1 254.912	2 196.096	2 823.552
Priority 7: Promotion of sustainable production systems in the context of adaptation to climate change	P14: Promotion of models for intensification of sustainable agricultural and livestock production	SP 14.1: Promotion of sustainable agricultural intensification models	104.576	104.576	104.576	313.728	549.024	705.888	1 568.640
		SP 14.2: Promotion of sustainable livestock production intensification models	104.576	104.576	104.576	313.728	549.024	705.888	1 568.640
		P14 Program Total	209.152	209.152	209.152	627.456	1 098.048	1 411.776	3 137.280
	P15: Restoration of agricultural and pastoral land	SP 15.1: Restoration of farmland	104.576	104.576	104.576	313.728	549.024	705.888	1 568.640
		SP 15.2: Restoring rangelands	104.576	104.576	104.576	313.728	549.024	705.888	1 568.640
		P15 Program Total	209.152	209.152	209.152	627.456	1 098.048	1 411.776	3 137.280
	P16: Management of agricultural and pastoral risk	SP 16.1: Promotion of insurance on agricultural and animal productions	104.576	104.576	104.576	313.728	549.024	705.888	1 568.640
		SP 16.2: Improvement of knowledge and management of risks related to agricultural and livestock productions	104.576	104.576	104.576	313.728	549.024	705.888	1 568.640
		P16 program Total	209.152	209.152	209.152	627.456	1 098.048	1 411.776	3 137.280
			AXIS 7 TOTAL	627.456	627.456	627.456	1 882.368	3 294.144	4 235.328
Axis 8: Improvement of overall energy efficiency	P17: Energy efficiency of biomass energy chains	SP 17.1: Promotion of Improved wood and charcoal stoves	3,000	4,000	5,000	12,000	6,000	5,000	23,000
		SP 17.2: Promotion of Improved Charcoal Production technology & production of charcoal	1,100	1,650	2,200	4,950	3,300	2,750	11,000

AXIS	PROGRAMS	SUBPROGRAMS	SUDAN						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
		SP 17.3: Development of alternative energy systems in forest fuel (biogas, biofuels, agroforestry residues, etc.)	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P17 Program Total	4,100	5,650	7,200	16,950	9,300	7,750	34,000
	P18: Energy efficiency of the modes of production and transmission of electrical energy	18.1 SP: Technological upgrade of energy-consuming thermal power plants	0,000	0,000	0,000	0,000	170,000	170,000	340,000
		18.2 SP: Technological upgrade of transmission networks (transmission & distribution of electrical energy)	0,000	0,000	0,000	0,000	100,000	90,000	190,000
		18.3 SP: Promotion of Low Consumption Lamps (LCL) and public lighting through solar streetlights	25,000	40,000	60,000	125,000	150,000	175,000	450,000
		P18 Program Total	25,000	40,000	60,000	125,000	420,000	435,000	980,000
	P19: Control of energy demand	19.1 SP: Standardization, Certification & Optimization of demand for conventional energy	0,000	0,000	0,000	0,000	22,000	18,000	40,000
		P19 Program Total	0,000	0,000	0,000	0,000	22,000	18,000	40,000
		AXIS 8 TOTAL	29,100	45,650	67,200	141,950	451,300	460,750	1 054,000
A9: Renewable Energy Promotion	P20: Accelerated development & Project management of hydropower	SP 20.1: Upgrading the potentialities of hydropower	30,000	30,000	35,000	95,000	110,000	120,000	325,000
		P20 Program Total	30,000	30,000	35,000	95,000	110,000	120,000	325,000
	P21: Improving the energy mix in a positive eco-balance	SP 21.1: Promotion & Accelerated development of other forms of renewable energy for electrification	150,000	180,000	330,000	660,000	1 200,000	1 500,000	3 360,000
		P21 Program Total	150,000	180,000	330,000	660,000	1 200,000	1 500,000	3 360,000
		AXIS 9 TOTAL	180,000	210,000	365,000	755,000	1 310,000	1 620,000	3 685,000
A10: Improving access to modern energy services	P22: Rural and peri-urban electrification	P 22.1: Promotion and development of sustainable rural electrification	70,000	70,000	91,000	231,000	220,000	250,000	701,000
		P22 Program Total	70,000	70,000	91,000	231,000	220,000	250,000	701,000
	P23: Domestic alternative fuels to wood energy	P 23.1: Promotion of domestic butane fuel substitute for wood energy	100,000	120,000	180,000	400,000	450,000	450,000	1 300,000
		P23 Program Total	100,000	120,000	180,000	400,000	450,000	450,000	1 300,000
	P24: Rural access to modern energy	P 24.1: Multifunctional access platform for energy & driving forces	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P24 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		AXIS 10 TOTAL	170,000	190,000	271,000	631,000	670,000	700,000	2 001,000
A11: Development of a communication	P25: Development of a Regional	SP 25.1: Development and implementation of a regional communication strategy	0,040	0,000	0,000	0,040	0,000	0,000	

AXIS	PROGRAMS	SUBPROGRAMS	SUDAN						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
and advocacy strategy on climate change	Communication Strategy on Climate Change and Resilience.	SP 25.2 Creation and Management of a Regional Portal "Climate Change and Resilience in the Sahel"	0,300	0,300	0,300	0,900	1,500	1,500	
		P25 program Total	0,340	0,300	0,300	0,940	1,500	1,500	0,000
	P26: Implementation of Advocacy	SP 26.1: Launch of a campaign "The Sahel is now!»	0,000	0,000	0,000	0,000	0,000	0,000	
		SP 26.2: Regional Gala of Excellence Held Annually	0,300	0,300	0,300	0,900	1,500	1,500	
		SP 26.3 Creation and management of a regional movement of youth " Sahel Volunteers"	0,000	0,000	0,000	0,000	0,000	0,000	
	P26 program Total	0,300	0,300	0,300	0,900	1,500	1,500	0,000	
	TOTAL AREA 11	0,640	0,600	0,600	1,840	3,000	3,000	0,000	
A12: Capacity reinforcement of communication and advocacy actors	P27: Capacity building at the individual level	27.1 SP: Capacity Building of media professionals	0,050	0,100	0,100	0,250	0,500	0,500	
		SP 27.2: Capacity Building for Advocacy actors (opinion leaders)	0,000	0,100	0,100	0,200	0,500	0,500	
		27.3 SP: Capacity building of civil society actors	0,050	0,100	0,100	0,250	0,500	0,500	
		P27 Program Total	0,100	0,300	0,300	0,700	1,500	1,500	0,000
	P28: Capacity building Organizationally	SP 28.1: Capacity Building of Press enterprises	0,050	0,100	0,100	0,250	0,500	0,500	
		SP 28.2: Institutional capacity reinforcement (public services and ministry officials related to environmental issues).	0,050	0,100	0,100	0,250	0,500	0,500	
		SP 28.3: Capacity Building of NGOs and Civil Society	0,050	0,100	0,100	0,250	0,500	0,500	
		P28 Program Total	0,150	0,300	0,300	0,750	1,500	1,500	0,000
		AXIS 12 TOTAL	0,250	0,600	0,600	1,450	3,000	3,000	0,000
	A13: Capacity building of national institutions and frameworks in the area of climate change	P29: Countries capacity building in the field of climate change	SP 29.1: Institutional Capacities reinforcement	0,000	0,000	0,000	0,000	3,200	2,200
SP 29.2: Strengthening the Capacities of different stakeholder groups in the implementation of Multilateral Environmental Agreements (MEAs)			0,000	0,500	0,500	1,000	3,000	3,000	7,000
SP 29.3 Institutional capacity building in the field of energy			4,000	6,500	9,200	19,700	0,000	0,000	19,700
P29 Program Total			4,000	6,500	9,200	20,700	0,000	0,000	19,700
	AXIS 13 TOTAL	4,000	6,500	9,200	20,700	0,000	0,000	19,700	

AXIS	PROGRAMS	SUBPROGRAMS	SUDAN						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
Axis 14: Strengthening climate information systems and the synergy between research and development structures	P 30: Production of information and means of popularizing information on climate change (National and regional scales)	SP 30.1. Strengthening of information generation capacity is climate change	0,000	0,500	0,500	1,000	2,000	2,000	5,000
		SP 30.2. systems development and use of information is CC extension	0,000	0,500	0,500	1,000	1,500	1,500	4,000
		P30 Program Total	0,000	1,000	1,000	2,000	3,500	3,500	9,000
	P31: Capacity building of actors in the use of climate change information	SP 31.1. Strengthening the Capacities of technical services to to use of information on climate change	0,000	0,500	0,500	1,000	1,000	1,000	3,000
		SP 31.2. Strengthening private sector capacity, civil society and local communities in the use of information on climate change	0,000	0,500	0,500	1,000	1,500	1,500	4,000
		P31 Program Total	0,000	1,000	1,000	2,000	2,500	2,500	7,000
			AXIS 14 TOTAL	0,000	2,000	2,000	4,000	6,000	6,000
Axis 15: Strengthening capacity to Mobilize financial and technical partnerships	P32: Frames capacity building in the field of negotiations	SP 32.1: Development of multi-year programs of national training frameworks in the field of negotiations				0,000			0,000
		SP32.2: Implementation of executive training programs in the field of negotiations				0,000			0,000
		P32 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P33: Improving access conditions to climate fund	SP33.1: Program for updating and translating NDCs (Nationally Determined Contribution) into programs and operational projects	0,100	0,100	0,100	0,300			0,300
		SP33.2: Development and implementation of a Capacity Building Program for National Managers to Facilitate Access to Climate Funds	1,000	1,000	1,000	3,000			3,000
		SP 33.3 Coordination by the Joint Working Group (JWG)	0,000	0,000	0,000	0,000			0,000
		P33 Program Total	1,100	1,100	1,100	3,300	0,000	0,000	3,300
	P34: Advocacy for Mobilizing technical and financial resources for regional organizations	34.1 SP: Advocacy of Basin Organizations	0,000	0,000	0,000	0,000			0,000
		34.2 SP: Advocacy for regional organisms	0,000	0,000	0,000	0,000			0,000
		P34 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		AXIS 15 TOTAL	1,100	1,100	1,100	3,300	0,000	0,000	3,300
CIP SR TOTAL			1 431.505	1 509.275	2 020.320	4 964.100	18 627.523	20 621.413	45 094.083

Annex 17: RPP and CIP SR of Chad (US \$ Million)

AXIS	PROGRAMS	SUBPROGRAMS	CHAD						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
A1: Restoration and rehabilitation of degraded lands and sensitive ecosystems	P1: Support to national and regional programs for land restoration	SP 1.1: Support to National Plans for land degradation neutrality and Their extension to the Region	0,000	0,500	0,500	1,000	2 296.755	2 296.755	4 594.510
		SP 1.2: Support for the restoration of agricultural land in AIC's framework	0,000	0,500	0,500	1,000	128,400	128,400	257.800
		SP 1.3: Development of "Economics of Land Degradation" and the Green Economy	0,000	0,500	0,500	1,000	7,000	7,000	15,000
		P1 Program Total	0,000	1,500	1,500	3,000	2 432.155	2 432.155	4 867.310
	P2: Integrated management of sensitive ecosystems significant for building resilience	SP 2.1: Protection and development of humid areas important for Ramsar's Convention	0,000	0,500	0,500	1,000	132,500	132,500	266,000
		SP 2.2: Reconstruction and protection of delicate ecosystems in Sahel's Region (mangrove stands, tiger bush, basins and oases)	0,000	0,500	0,500	1,000	132,500	132,500	266,000
		SP 2.3: Coastal areas Protection	0,000	0,500	0,500	1,000	132,500	132,500	266,000
		P2 Program Total	0,000	1,000	1,000	3,000	265,000	265,000	798,000
		AXIS 1 TOTAL	0,000	2,500	2,500	6,000	2 697.155	2 697.155	5 665.310
	A2: Carbon sequestration capacities reinforcement	P3: Reconstruction Support of major natural ecosystems for carbon sequestration	SP 3.1: Support of the rehabilitation of classified forests and other significant natural ecosystems	0,000	0,500	0,500	1,000	2 152.498	2 152.498
SP 3.2: Promoting the establishment and management of protected areas and national parks			0,000	0,500	0,500	1,000	2 152.498	2 152.498	4 305.995
SP 3.3: Fight against deforestation (land clearing) and bushfires			0,000	0,500	0,500	1,000	215.250	215.250	431.500
P3 Program Total			0,000	1,000	1,000	3,000	4 304.995	4 304.995	9 043.490
P4: Reforestation plan promotion in the context of carbon sequestration		SP 4.1: Development and implementation of a state program of reforestation in the countries of the Sahel Region	0,000	0,500	0,500	1,000	525,000	525,000	1 051.000
		SP 4.2: Promotion of operations "Village wood" in local communities and private plantations	0,000	0,500	0,500	1,000	3,500	3,500	8,000
	P4 Program Total	0,000	1,000	1,000	2,000	528.500	528.500	1 059.000	
	AXIS 2 TOTAL	0,000	2,000	2,000	5,000	4 833.495	4 833.495	10 102.490	
A3: knowledge Improvement and conservation / water resources management	P5: Support for Strengthening the knowledge of water field	SP 5.1: Research and development on water	0,000	4,850	0,000	4,850	0,000	0,000	4,850
		SP 5.2: Establishment of databases on urban and village water works in the states	1,650	0,000	0,000	1,650	0,000	0,000	1,650

AXIS	PROGRAMS	SUBPROGRAMS	CHAD						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
		SP 5.3: Setting up databases on hydrogeology and characteristics of groundwater resources.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P5 Program Total	1,650	4,850	0,000	6,500	0,000	0,000	6,500
	P6: observation and monitoring of Surface water and groundwater resources	SP 6.1: Support to the dissemination of States meteorological observations results	0,000	2,200	0,000	2,200	0,000	0,000	2,200
		SP 6.2: Installation and Support for the Strengthening of water observatories in countries watersheds.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 6.3: Support to the operationalization of the weather models in the States	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P6 Total Program	0,000	2,200	0,000	2,200	0,000	0,000	2,200
	P7: preservation and water resource management.	SP 7.1: Support for the results extension of States meteorological observation	2,200	0,000	2,967	5,167	0,000	0,000	5,167
		SP 7.2: Installation and Strengthening Support for the water observatories in countries watersheds.	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 7.3: Support for the operationalization of weather forecast models in the States	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 7.4: Water Resources Mobilization	0,000	0,000	26.852	26.852	0,000	0,000	26.852
		P7 Program Total	2,200	0,000	29.819	32.019	0,000	0,000	32.019
		AXIS 3 TOTAL	3,850	7,050	29.819	40.719	0,000	0,000	40.719
A4: Access to drinking water and productive uses	P8: Urban and Rural Water Supply	SP 8.1: Populations Access to Drinking Water and Sanitation	0,330	44.333	0,000	44.663	175.300	200,000	419.963
		SP 8.2: Village Hydraulic Development and Building Resilience Against Climate Change in Rural Areas	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P8 Program Total	0,330	44.333	0,000	44.663	175.300	200,000	419.963
	P9: Hydraulic and pastoral farming	SP 9.1: Ponds and wells Development for livestock	0,000	0.734	60,000	60.734	0,000	50,000	110.734
		SP 9.2: Rehabilitation or Construction of dams or reservoirs for irrigation Purposes	0,000	0,000	50,000	50,000	200,000	200,000	450,000
		P9 Program Total	0,000	0.734	110,000	110.734	200,000	250,000	560.734
		AXIS 4 TOTAL	0,330	45.067	110,000	155.397	375.300	450,000	980.697
A5: Strengthening inter-state	P10: Cooperation for water resources sharing	SP 10.1: Management of transboundary resources.	0,000	0,000	0,000	0,000	0,000	0,000	0,000

AXIS	PROGRAMS	SUBPROGRAMS	CHAD						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
cooperation for a synergy of action in water resources management	and management	SP 10.2: Water Charter between States bordering a basin.	2,200	0,000	0,000	2,200	0,000	0,000	2,200
		P10 Program Total	2,200	0,000	0,000	2,200	0,000	0,000	2,200
	P11: Implementation of regional guidelines and policies at the state level.	SP 11.1: Institutional Support	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 11.2: Regional, subregional and national capacity reinforcement.	0,000	0,000	0,000	0,000	24,000	0,018	24.018
		P11 Program Total	0,000	0,000	0,000	0,000	24,000	0,018	24.018
		AXIS 5 TOTAL	2,200	0,000	0,000	2,200	24,000	0,018	26.218
Priority 6: Reduction of GHG(Greenhouse Gas effects) emissions in the agropastoral sector	P12: Promotion of low carbon agricultural production systems	SP 12.1: Sustainable management of soil fertility	76.781	76.781	76.781	230.343	403.101	518.272	1 151.716
		SP 12.2: Sustainable management of irrigation systems	76.781	76.781	76.781	230.343	403.101	518.272	1 151.716
		P12 Program Total	153.562	153.562	153.562	460.686	806.201	1 036.544	2 303.432
	P13: Promotion of low carbon animal production systems	SP 13.1: Promotion of integrated crop-livestock systems	76.781	76.781	76.781	230.343	403.101	518.272	1 151.716
		13.2 SP: Securing pastoral production systems	76.781	76.781	76.781	230.343	403.101	518.272	1 151.716
		P13 Program Total	153.562	153.562	153.562	460.686	806.201	1 036.544	2 303.432
		AXIS 6 TOTAL	307.124	307.124	307.124	921.373	1 612.403	2 073.089	4 606.864
Priority 7: Promotion of sustainable production systems in the context of adaptation to climate change	P14: Promotion of models for intensification of sustainable agricultural and livestock production	SP 14.1: Promotion of sustainable agricultural intensification models	76.781	76.781	76.781	230.343	403.101	518.272	1 151.716
		SP 14.2: Promotion of sustainable livestock production intensification models	76.781	76.781	76.781	230.343	403.101	518.272	1 151.716
		P14 Program Total	153.562	153.562	153.562	460.686	806.201	1 036.544	2 303.432
	P15: Restoration of agricultural and pastoral land	SP 15.1: Restoration of farmland	76.781	76.781	76.781	230.343	403.101	518.272	1 151.716
		SP 15.2: Restoring rangelands	76.781	76.781	76.781	230.343	403.101	518.272	1 151.716
		P15 Program Total	153.562	153.562	153.562	460.686	806.201	1 036.544	2 303.432
	P16: Management of agricultural and pastoral risk	SP 16.1: Promotion of insurance on agricultural and animal productions	76.781	76.781	76.781	230.343	403.101	518.272	1 151.716
		SP 16.2: Improvement of knowledge and management of risks related to agricultural and livestock productions	76.781	76.781	76.781	230.343	403.101	518.272	1 151.716
		P16 program Total	153.562	153.562	153.562	460.686	806.201	1 036.544	2 303.432
		AXIS 7 TOTAL	460.686	460.686	460.686	1 382.059	2 418.604	3 109.633	6 910.297
Axis 8: Improvement of overall energy efficiency	P17: Energy efficiency of biomass energy chains	SP 17.1: Promotion of Improved wood and charcoal stoves	1,000	2,000	2,000	5,000	4,000	4,000	13,000
		SP 17.2: Promotion of Improved Charcoal Production technology & production of charcoal	0,800	0,800	1,000	2,600	2,000	1,400	6,000

AXIS	PROGRAMS	SUBPROGRAMS	CHAD						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
		SP 17.3: Development of alternative energy systems in forest fuel (biogas, biofuels, agroforestry residues, etc.)	0,000	0,000	0,000	0,000	1,200	2,000	3,200
		P17 Program Total	1,800	2,800	3,000	7,600	7,200	7,400	22,200
	P18: Energy efficiency of the modes of production and transmission of electrical energy	18.1 SP: Technological upgrade of energy-consuming thermal power plants	0,000	0,000	0,000	0,000	80,000	80,000	160,000
		18.2 SP: Technological upgrade of transmission networks (transmission & distribution of electrical energy)	0,000	0,000	0,000	0,000	35,000	40,000	75,000
		18.3 SP: Promotion of Low Consumption Lamps (LCL) and public lighting through solar streetlights	15,000	25,000	49,000	89,000	85,000	85,000	259,000
		P18 Program Total	15,000	25,000	49,000	89,000	200,000	205,000	494,000
	P19: Control of energy demand	19.1 SP: Standardization, Certification & Optimization of demand for conventional energy	0,000	0,000	0,000	0,000	10,000	5,000	15,000
		P19 Program Total	0,000	0,000	0,000	0,000	10,000	5,000	15,000
		AXIS 8 TOTAL	16,800	27,800	52,000	96,600	217,200	217,400	531,200
A9: Renewable Energy Promotion	P20: Accelerated development & Project management of hydropower	SP 20.1: Upgrading the potentialities of hydropower	6,000	7,000	10,000	23,000	40,000	50,000	113,000
		P20 Program Total	6,000	7,000	10,000	23,000	40,000	50,000	113,000
	P21: Improving the energy mix in a positive eco-balance	SP 21.1: Promotion & Accelerated development of other forms of renewable energy for electrification	50,000	100,000	150,000	300,000	750,000	917,000	1 967,000
		P21 Program Total	50,000	100,000	150,000	300,000	750,000	917,000	1 967,000
		AXIS 9 TOTAL	56,000	107,000	160,000	323,000	790,000	967,000	2 080,000
A10: Improving access to modern energy services	P22: Rural and peri-urban electrification	P 22.1: Promotion and development of sustainable rural electrification	10,000	15,000	18,000	43,000	80,000	90,000	213,000
		P22 Program Total	10,000	15,000	18,000	43,000	80,000	90,000	213,000
	P23: Domestic alternative fuels to wood energy	P 23.1: Promotion of domestic butane fuel substitute for wood energy	10,000	15,000	15,000	40,000	60,000	80,000	180,000
		P23 Program Total	10,000	15,000	15,000	40,000	60,000	80,000	180,000
	P24: Rural access to modern energy	P 24.1: Multifunctional access platform for energy & driving forces	0,400	0,500	0,500	1,400	3,000	3,000	7,400
		P24 Program Total	0,400	0,500	0,500	1,400	3,000	3,000	7,400
		AXIS 10 TOTAL	20,400	30,500	33,500	84,400	143,000	173,000	400,400
A11: Development of a communication and advocacy strategy on climate change	P25: Development of a Regional Communication Strategy on Climate Change and Resilience.	SP 25.1: Development and implementation of a regional communication strategy	0,040	0,000	0,000	0,040	0,000	0,000	0,040
		SP 25.2 Creation and Management of a Regional Portal "Climate Change and Resilience in the Sahel"	0,300	0,300	0,300	0,900	1,500	1,500	3,900

AXIS	PROGRAMS	SUBPROGRAMS	CHAD						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
		P25 program Total	0,340	0,300	0,300	0,940	1,500	1,500	3,940
	P26: Implementation of Advocacy	SP 26.1: Launch of a campaign "The Sahel is now! »	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		SP 26.2: Regional Gala of Excellence Held Annually	0,300	0,300	0,300	0,900	1,500	1,500	3,900
		SP 26.3 Creation and management of a regional movement of youth " Sahel Volunteers"	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		P26 program Total	0,300	0,300	0,300	0,900	1,500	1,500	3,900
		TOTAL AREA 11	0,640	0,600	0,600	1,840	3,000	3,000	7,840
A12: Capacity reinforcement of communication and advocacy actors	P27: Capacity building at the individual level	27.1 SP: Capacity Building of media professionals	0,050	0,100	0,100	0,250	0,500	0,500	1,250
		SP 27.2: Capacity Building for Advocacy actors (opinion leaders)	0,000	0,100	0,100	0,200	0,500	0,500	1,200
		27.3 SP: Capacity building of civil society actors	0,050	0,100	0,100	0,250	0,500	0,500	1,250
		P27 Program Total	0,100	0,300	0,300	0,700	1,500	1,500	3,700
	P28: Capacity building Organizationally	SP 28.1: Capacity Building of Press enterprises	0,050	0,100	0,100	0,250	0,500	0,500	1,250
		SP 28.2: Institutional capacity reinforcement (public services and ministry officials related to environmental issues).	0,050	0,100	0,100	0,250	0,500	0,500	1,250
		SP 28.3: Capacity Building of NGOs and Civil Society	0,050	0,100	0,100	0,250	0,500	0,500	1,250
		P28 Program Total	0,150	0,300	0,300	0,750	1,500	1,500	3,750
		AXIS 12 TOTAL	0,250	0,600	0,600	1,450	3,000	3,000	7,450
A13: Capacity building of national institutions and frameworks in the area of climate change	P29: Countries capacity building in the field of climate change	SP 29.1: Institutional Capacities reinforcement	0,000	0,000	0,000	0,000	3,200	2,200	5,400
		SP 29.2: Strengthening the Capacities of different stakeholder groups in the implementation of Multilateral Environmental Agreements (MEAs)	0,000	0,500	0,500	1,000	3,000	3,000	7,000
		SP 29.3 Institutional capacity building in the field of energy	3,000	6,000	4,950	13,950	0,000	0,000	13,950
		P29 Program Total	3,000	6,000	4,950	14,950	0,000	0,000	13,950
		AXIS 13 TOTAL	3,000	6,000	4,950	14,950	0,000	0,000	13,950
Axis 14: Strengthening climate information	P 30: Production of information and means of popularizing	SP 30.1. Strengthening of information generation capacity is climate change	0,000	0,500	0,500	1,000	2,000	2,000	5,000

AXIS	PROGRAMS	SUBPROGRAMS	CHAD						
			2018	2019	2020	RPP	PQ 21-25	PQ 26-30	CIP SR
systems and the synergy between research and development structures	information on climate change (National and regional scales)	SP 30.2. systems development and use of information is CC extension	0,000	0,500	0,500	1,000	1,500	1,500	4,000
		P30 Program Total	0,000	1,000	1,000	2,000	3,500	3,500	9,000
	P31: Capacity building of actors in the use of climate change information	SP 31.1. Strengthening the Capacities of technical services to to use of information on climate change	0,000	0,500	0,500	1,000	1,000	1,000	3,000
		SP 31.2. Strengthening private sector capacity, civil society and local communities in the use of information on climate change	0,000	0,500	0,500	1,000	1,500	1,500	4,000
		P31 Program Total	0,000	1,000	1,000	2,000	2,500	2,500	7,000
		AXIS 14 TOTAL	0,000	2,000	2,000	4,000	6,000	6,000	16,000
Axis 15: Strengthening capacity to Mobilize financial and technical partnerships	P32: Frames capacity building in the field of negotiations	SP 32.1: Development of multi-year programs of national training frameworks in the field of negotiations				0,000			0,000
		SP32.2: Implementation of executive training programs in the field of negotiations				0,000			0,000
		P32 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
	P33: Improving access conditions to climate fund	SP33.1: Program for updating and translating NDCs (Nationally Determined Contribution) into programs and operational projects	0,100	0,100	0,100	0,300			0,300
		SP33.2: Development and implementation of a Capacity Building Program for National Managers to Facilitate Access to Climate Funds	1,000	1,000	1,000	3,000			3,000
		SP 33.3 Coordination by the Joint Working Group (JWG)	0,000	0,000	0,000	0,000			0,000
		P33 Program Total	1,100	1,100	1,100	3,300	0,000	0,000	3,300
	P34: Advocacy for Mobilizing technical and financial resources for regional organizations	34.1 SP: Advocacy of Basin Organizations	0,000	0,000	0,000	0,000			0,000
		34.2 SP: Advocacy for regional organisms	0,000	0,000	0,000	0,000			0,000
		P34 Program Total	0,000	0,000	0,000	0,000	0,000	0,000	0,000
		AXIS 15 TOTAL	1,100	1,100	1,100	3,300	0,000	0,000	3,300
CIP SR TOTAL			872.381	1 000.028	1 166.880	3 042.288	13 123.157	14 532.791	31 392.735

Annex 2 : PIC-SR Logical context

Logic	IOV	Sources verification	Hypotheses
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Logic		IOV	Sources verification	Hypotheses
OG	Strengthen the resilience of populations and ecosystems to climate change for sustainable development in the Sahel region	% of the Sahelian population whose (socio-economic) conditions have improved through strengthening their resilience to climate change	HDI	Consequent political choices are adopted;
OS 1	Strengthen environmental action to mitigate GHG emissions and climate change adaptation/resilience in the sahel region	Increasing the volume of investment in the environmental sector	Review of public expenditures, laws and regulations	Consequent political choices are adopted ; The financial commitments of States ; The financial commitments of Partners
OS 2	Improve the availability of water resources for human consumption and the development of economic activities.	Increasing investment in the water resources sector	Review of public expenditures, laws and regulations	
OS 3	Ensure the sustainability of agricultural and pastoral production systems in the face of the effects of climate change	Increase in the volume of investments in the agropastoral sector	Review of public expenditures, laws and regulations	
OS 4	Promote sustainable production, transmission and energy consumption options	Volume of investments in the energy sector	Review of public expenditures, laws and regulations	
OS 5	Strengthen information, awareness and advocacy capacities on climate change	Increase in investment volume in the information and advocacy sector	Review of public expenditures, laws and regulations	
OS 6	Strngthen institutional capacity and improve environmental governance.	Increase of investment in the institution-building sector	Review of public expenditures, laws and regulations	
Axis 1	Restoration and rehabilitation of degraded lands and ecosystems			
R 1	<i>Degraded lands and fragile ecosystems are restored and rehabilitated</i>	<i>% of restored area in the countries</i>	<i>Reports from the Ministry of environment, the Ministry of Agriculture and National communications</i>	Mobilization and effective participation of the population ;
	Land restoration based on land degradation neutrality has increased	% of land restoration activities applying neutrality		A series of normal to surplus rainy seasons
	The economics of land degradation and the green economy are promoted	Number of municipalities engaged in green economy activities		
	The protection of the coastal areas of the Sahel region has	Length of protected coastal sites by country		

Logic		IOV	Sources verification	Hypotheses
	inscread			
R 2	<i>Carbon sequestration capacities are improved</i>	<i>Rate of increase of the forest cover of the region countries</i>	<i>Ministry of environment and national communications reports</i>	
	The rehabilitation of classified forests and other ecosystems is ensured	Increase in the area of the national forests		
	Reforestation in the countries of the sahel region intensified	Increase in the area of artificial plantations		
Axis 2	Integrated water resources management			
R3	<i>The preservation and management of water resources are increased</i>	<i>Evolution of freshwater reserves in the Sahel region</i>	<i>Reports from national services and basin organizations</i>	
	Knowledge in the field of water resources has improved			
	Observation and monitoring of surface and underground water resources carried out			
	The preservation and management of water resources are carried out			
R4	<i>Water requirements of domestic and productive sectors are satisfied</i>	<i>Number of hydraulic infrastructures realized</i>	<i>National services and basin organizations reports</i>	
	The Uurban and village water network has improved			
	The Urban and pastoral hydraulic water network has improved			
R5	<i>Inter-States cooperation for sharing and management resources is strengthened</i>	<i>Volume of information shared between countries</i>	<i>National services and basin organizations reports</i>	
	Sharing and management of water resources is ensured			
	Regional guidelines and policies are respected and applied at the States levels	Number of regional guidelines and policies implemented by the countries		
Axis 3	Sustainable management of agricultural and pastoral systems			
R6	<i>Greenhouse gas emissions in the agro pastoral sector are</i>	<i>The proportion of agropastoral farms applying</i>	<i>Ministries of Environment, of</i>	

Logic		IOV	Sources verification	Hypotheses
	<i>reduced</i>	<i>good low-carbon practices (%)</i>	<i>Agriculture and of National communication</i>	
	Low-carbon agricultural production systems are promoted	Proportion of farms applying good fertilizer use practices		
	Livestock production systems are promoted	Proportion of livestock applying good feeding practices		
R7	<i>Agropastoral production systems that are sustainable and adopting appropriate adaptation practices are increased</i>	<i>Proportion of exploitation using intensification models of agriculture and livestock</i>	<i>Ministry of Agriculture and Breeding reports</i>	
	Models for scaling up sustainable livestock and agricultural production are promoted			
Axis 4	Improving energy efficiency and access to modern energy services			
R8	<i>General energy efficiency is improved in the sahel region</i>	<i>Improvement rate of energy efficiency</i>		
	Energy efficiency of biomass energy sectors are improved	Rate of reduction of final demand for firewood and charcoal per capita		
	The energy efficiency of the models of production and transmission of electric energy is improved	Improvement rate of thermal power plants efficiency and electric power transmission networks		
	Energy demand is controlled			
R9	<i>New and renewable energies are promoted</i>	<i>Improvement rate of new and renewable energies supply in the energy mix</i>	<i>Ministries in charge of energy reports</i>	
	The development of Hydropower works is accelerated.			
	The energy mix with an improved eco-balance has improved			
R10	<i>The access to modern energy services is improved</i>	<i>Access rate to electricity and modern fuels</i>	<i>Ministries in charge of energy reports</i>	
	Rural and peri-urban electrification is intensified			
	Domestic alternative fuel to wood energy is popularized			
	Access for rural people to			

Logic		IOV	Sources verification	Hypotheses
	modern energy is made			
Axis 5	Development of communication and advocacy on climate change			
R11	<i>Communication and advocacy strategies in the field of climate change are developed and implemented</i>	<i>Percentage of institutions with a communication and advocacy strategy</i>	<i>Reports from Ministries in charge of the Environment and Ministries in charge of Communication</i>	
	Countries have communication and advocacy strategies			
	Campaigns are undertaken in the countries			
Axis 6	Strengthening capacities in the fight against climate change			
R12	<i>Institutional capacities of the Region countries are strengthened</i>	<i>Percentage of institutions strengthened in the field of climate change ;</i>	<i>Reports from Ministries in charge of Environment</i>	
	Information production capacities on climate change are strengthened	Level of availability and access to climate information	Reports from technical and institutional Ministries	
	Stakeholders capacity to use information on climate change			
	Capacity of research and development structures			
R13	<i>Stakeholders capacities are strengthened</i>	<i>Increase rate of capacity for improving skills in the field of climate change</i>	<i>Reports from Ministries of different sectors and National Communications</i>	
	The capacity of stakeholders groups in the implementation of the Multilateral Environmental Agreements (MEAs) are strengthened ;	% of managers and other stakeholders who have received training on MEA		
	Capacity in the field of negotiations are strengthened			
	The capacity of the media and civil society actors in the field of communication and advocacy are strengthened			

Logic		IOV	Sources verification	Hypotheses
R14	<i>Governance and coordination at the national and regional levels of the CIP SR are strengthened</i>	<i>Number of events organized by the JWG</i>	<i>Reports from JWG and NWG</i>	
	States capacities to facilitate access to the climate Funds is strengthened			
	Coordination by the Joint Working Group (JWG) is strengthened			
	Advocacy for Basin Organizations is strengthened			
	Advocacy for regional organizations is strengthened			
	Intervention Logic	Budget (in US million \$)		
Axis 1	Restoration and rehabilitation of degraded lands and ecosystems	144152		
R 1	<i>Degraded lands and fragile ecosystems are restored and rehabilitated</i>			
P1	Support for national and regional land restoration programs	39 489,165		States financial commitments ;
P2	Integrated management of critical sensitive ecosystems of importance for enhancing resilience	13 837,000		Partners financial commitments
R 2	<i>Carbon sequestration capacities enhanced</i>			
P3	Support for the reconstruction of natural ecosystems of importance for carbon sequestration	73 368,892		
P4	Promotion of reforestation plans in the context of carbon sequestration	17 456,680		
Axis 2	Integrated management of water resources	9 462		
R3	<i>Preservation and management of water resources are made</i>			
P5	Support for strengthening knowlegde in the field of water	1 080,736		

Logic		IOV	Sources verification	Hypotheses
P6	Observation and monitoring of surface and underground water resources	51,433		
P7	Preservation and management of water resources.	2 328,208		
R4	<i>The water needs of domestic and urban areas are satisfied</i>			
P8	Urban and village hydraulic	1 164,415		
P9	Pastoral and Agricultural hydraulic	4 820,927		
R5	Inter-states cooperation for resource sharing and management is strengthened			
P10	Cooperation for sharing and management of water resources	16,114		
Axis 3	Sustainable management of agricultural and pastoral systems	184 490		
R6	<i>Greenhouse gas emissions in the agropastoral sector are reduced</i>			
P11	Promotion of low-carbon agricultural production systems	36 397,232		
P12	Promotion of low-carbon livestock production systems	36 409,157		
R7	<i>Agropastoral sustainable production systems and adopting appropriate adaptation practices</i>			
P13	Promotion of models of intensification of sustainable agricultural and livestock production	37 184,027		
P14	Restoration of agricultural and pastoral lands	37 249,597		
P15	Management of agricultural and pastoral risks	37 249,597		
Axis 4	Improving energy efficiency and access to modern energy services	53 597		
R8	<i>General energy efficiency is improved in the countries of the Sahel region</i>			
P16	Energy efficiency	12 007,650		
R9	<i>New and renewable energies are promoted</i>			

Logic		IOV	Sources verification	Hypotheses
P17	Innovation of the energy mix with a positive impact on the economy	30 212,000		
R10	<i>Access to modern energy services is improved</i>			
P18	Improving access to modern energy	11 377,400		
Axis 5	Development of communication and advocacy on climate change	144		
R11	<i>Communication and advocacy strategies are developed and implemented</i>			
P19	Developing a regional communication strategy on climate change	70,020		
P20	Implementation of advocacy	73,800		
Axis 6	Capacity building in the fight against climate change	866		
R12	<i>Institutional capacities of the region countries are strengthened</i>			
P21	Institutional capacity building at national and regional levels	532,840		
R13	<i>Stakeholders capacities are strengthened</i>			
P22	Stakeholders capacity building	260,700		
	Advocating for the mobilization of technical and financial resources for the organizations			
R14	<i>Regional governance and coordination at the national and regional levels of the CIP SR are strengthened</i>			
P23	Strengthening coordination at the national and regional levels	72,000		
	TOTAL CIP-SR	392 710		

Annex 20: Terms of Reference

Background and Rationale

Africa is the continent which has the lowest emissions of greenhouse gases (7%) compared to the rest of the world, particularly the industrialized world, recognized as both the main transmitter and one that historically responsible for global warming because of the amount of greenhouse gases emitted since the start of the industrial era.

However despite its low emissions globally, the African continent remains the most vulnerable to climate change. This vulnerability affects both people and their livelihoods, namely agriculture, livestock, forestry, water resources, energy and health, etc. The low adaptive capacity of African countries, characterized by the absence of broader political climate resilience and the low funding for climate adaptation fails to provide adequate answers to face the adverse effects of variability and climate change.

The resurgence of extreme events exacerbating the adverse effects of climate change causes a real threat to food security in Africa, to water and energy access, hindering the continent economic and social development in general.

Facing this situation, African countries have always actively participated in efforts against climate change along with other countries of the World, the Parties to the United Nation Framework Convention on Climate Change (UNFCCC). Thus the African continent regularly participated actively and at all levels, to various meetings of the climate negotiations. This is notably the case of the 22nd Conference of the Parties, on the sidelines of which, His Majesty the King of Morocco took the initiative to organize, on November 16, 2016 at the Palais des Congrès in Marrakech, a Summit of Heads of States and Delegation of Africa known as the "African Summit of Action for Continental Co-Emergence". Through this meeting, Africa wanted to take action to "take charge of its destiny, speak with one voice and join forces to fight against climate change and strengthen its resilience." It thus confirms "its ambition to be part of a sustainable co-emergence path, by building its own inclusive and sustainable development model, meeting the legitimate aspirations of the African people and preserving the interests of future generations.

»

This Summit was sanctioned by a "Declaration of African Heads of State" adopted unanimously by delegations. The highlights were:

- (i) the importance of proper implementation of Sustainable Development Goals, based on the Rio principles, especially that of "common but differentiated responsibility", to meet the challenge of climate changes;
- (ii) the concrete and substantial commitment of African countries to contribute to the global effort against climate change.

The Summit noted the relevance of joining the voice of the continent to better defend its interests and invited the King of Morocco, in relation with the current Chairperson of the African Union, to work for the implementation of the Declaration, especially in the coordination and follow-up of priority initiatives in the fields of the fight against climate change and sustainable development as well as the mobilization of the partners of the continent, bilateral or multilateral for a substantial financing. For this purpose, it was decided, the creation of three (3) commissions dedicated to:

1. The Sahel Region, chaired by the Republic of Niger;
2. The region of the Congo Basin, chaired by the Republic of Congo;
3. The island states, chaired by the Republic of Seychelles.

The main commitments made by the Heads of State and Delegation from the Marrakech Declaration, for the Sahel region are summarized below:

- Promote policies and actions required for adaptation, which are also catalysts for profound structural transformation on economic and social plans in Africa;
- Consolidating Africa's commitments in the fight against the effects of climate change, to give more coherence to ongoing or planned strategies;
- Accelerate the realization of already identified or launched initiatives, building not only on our intrinsic resources but also by mobilizing multilateral and bilateral donors as well as non-state actors; these are initiatives (i) aimed at strengthening Africa's resilience to the threats of climate change, in particular the African Initiative for Adaptation, the African Agriculture Adaptation Initiative, the Great Green Wall Project, the Initiative for Security, Stability and Sustainability, the Rural Resilience Initiative and the Forest Initiative in the Mediterranean Region and the Sahel (ii) in favor of Sustainable African Co-Emergence, including the African Renewable Energy Initiative, the Lake Chad Basin Ecosystem Conservation Initiative, the Blue Growth Initiative, the Corridor Initiative African Clean Energy;
- To encourage and facilitate private sector participation in the mobilization of additional capacity and funding to meet the challenge of climate change.

The Declaration was endorsed by the Twenty-Eighth Session of the Assembly of the African Union (AU), held on 30 and 31 January 2017 in Addis Ababa, giving the legal basis and the continental legitimacy necessary to create effective of the three commissions.

Similarly, the AU Assembly stressed the importance of ensuring coordination and full cooperation with the African Ministerial Conference on Environment (AMCEN) and the Committee of Heads of State and Government Africans on Climate Change (CAHOSCC) to consolidate the common position of the Continent as in the multilateral sphere and in the implementation of relevant decisions.

This declaration thus constitutes the main concrete mechanism for the implementation of the Paris Agreement generally in Africa and in the Sahel in particular.

Under the presidency of the Republic of Niger, the Commission of the Sahel Region is thus responsible for:

- Coordination and monitoring of the priority initiatives in the fight against climate change and sustainable development in this space;
- The mobilization of bilateral and multilateral partners in order to collect the necessary resources for the implementation of these initiatives among others.

The materialization of this mission necessarily involves the development and implementation in the short, medium and long term of a Climate Investment Plan for the Sahel Region (CIP SR). The present terms of reference relate to the development of this CIP SR.

I. general objective of the study

The overall objective is to contribute in the framework of the implementation of the Marrakech Declaration to the operationalization of the Commission for the Sahel Region.

II. Specific objectives

7. Develop a diagnostic report on the state of play;
8. Develop a climate investment plan for the Sahel Region CIP SR (2018-2030) including priority regional program RPP-SR (2018-2020) for the resilience of populations and ecosystems of the study area;
9. Develop an institutional governance arrangement for the implementation of CIP SR (2018-2030) including a stakeholder analysis;
10. Develop a monitoring and evaluation plan for the implementation of CIP SR (2020-2030).

III. Mission tasks

➤ General Guidelines and Policies

- Capitalizing on achievements of programs and projects that have had results and good practices in climate resilience over the last decade;
- Participate in regional meetings and workshops for validation of study reports;

➤ diagnostic analysis

- Analyze overall vulnerability of people and terrestrial, coastal and mountainous of the study area;
- Make a statement of policy areas, strategies, initiatives, programs and projects of regional climate resilience executed or in progress as well as those under development in the study area;
- Identify priority areas to build people's resilience;
- Review and synthesize the NDC countries of the Commission to identify short, medium and long terms;
- Examine the various investment plans of basins and other initiatives of subregional organizations (Senegal River Development Organization (OMVS), Gambian River Development Organization (OMVG), Niger Basin Authority (NBA), Lake Chad Basin Commission (LCBC), AP/Great Green Wall, Inter-State Committee for the Fight against Drought in the Sahel (CILSS), Economic Community of West Africa States (ECOWAS), West African Economic and Monetary Union (UEMOA), Intergovernmental Authority on Development (IGAD), Economic Community of Central African States (ECCAS), etc.) to release synergies and the points of convergence;
- Make mapping and analysis of the mechanisms and opportunities related to climate finance in countries of the Commission for the Sahel Region.

➤ deliverables

- A diagnostic report on the state of play;
- A climate investment plan for the Sahel Region CIP SR (2018-2030) including priority regional program RPP-SR (2018-2020) for the resilience of populations and ecosystems of the study area;
- A resource mobilization strategy together with a communication plan and advocacy CIP SR;
- An institutional implementation of CIP SR (2018-2030) including a stakeholder analysis;
- A monitoring and evaluation plan for the implementation of CIP SR (2020-2030).

IV. Study Methodology

The study covers the following countries: Benin, Burkina Faso, Cameroon, Cape Verde, Côte d'Ivoire, Gambia, Guinea Conakry, Djibouti, Ethiopia, Eritrea, Mali, Mauritania, Niger, Nigeria, Senegal, Sudan, Chad. The study will be conducted by a group of independent consultants who will work in teams under the responsibility of a head of mission. The consulting group will visit various organizations in regional OMVS OMVG, NBA, LCBC, AP / Great Wall, Inter-State Committee for the Fight against Drought in the Sahel (CILSS), ECOWAS, UEMOA, IGAD, ECCAS, etc.) the scope of the study. It will proceed to the collection of primary data (document review) and secondary (interviews) to accomplish the mission. In addition, it will contact the scientific research institutions, regional and international financial institutions.

The team is composed of individual consultants selected following a call for applications. This team will work under the authority of the Ministry of Environment and Sustainable Development of the Republic of Niger supported by the Joint Working Group (JWG).

The consultants group under the Head of Mission of the responsibility must communicate to be validate by the GTC implementation methodology of the mission which will be subject to a framing shop in accordance with the contract.

V. Expected results

- A diagnostic report on the state of play is developed;
- an investment climate plan for the Sahel Region CIP SR(2018-2030) together with a Regional Priority Program RPP-SR (2018-2020) for the resilience of populations and ecosystems of the study area is developed ;
- a resource mobilization strategy together with a communication plan and CIP SR advocacy is developed;

- an institutional governance CIP SR(2018-2030) including a stakeholder analysis is developed;
- a monitoring and evaluation plan for the implementation of the CIP SR(2018-2030) is developed;

VI. Profiles, qualifications and tasks of the consultants

- **Consultant, Socio economist planner, Head of Mission.**

Profile and qualifications

The Chief of Mission must have solid experience in the areas of climate change, institutional governance, resource mobilization and have at least ten (10) years in the evaluation of African policies, strategies and initiatives. Development of plans, programs and projects particularly in the areas of adaptation, mitigation and climate finance at the international level, in Africa and in the study area

He should possess the following qualifications:

- ✓ Hold a postgraduate diploma (Engineer Bac +5, Master or PhD) in his area of expertise.

In addition, he must:

- ✓ Have a very good knowledge of the Sahel region's development challenges;
- ✓ Have a very good knowledge of community and social organizations in the Sahel;
- ✓ Have knowledge of the climate fund procedures and in particular the Green Climate Fund (GCF), Global Environment Fund (GEF), (FA) and those within the bilateral and multilateral cooperation;
- ✓ Have a very good knowledge of understanding and definition of institutional governance mechanism;
- ✓ Have a great capacity for analysis, synthesis and writing;
- ✓ Being fluent in English and French;
- ✓ Having a good team spirit and support the work under pressure.

tasks:

The Head of Mission will ensure the overall coordination of the study. He will guarantee the smooth running of the different activities to implement and ensure the product quality control to deliver. He will also be the main point of contact with the government of Niger. He must also:

- Synthesize policy evaluation analyzes, strategies and African initiatives, plans, programs and projects;
- Synthesize NDC states of the Sahel region;
- Examine the various investment plans of the basin (OMVS OMVG, NBA, LCBC, Great Green Wall, CILSS, ECOWAS, etc. to release synergies and convergence points;
- Ensuring coherence of policies, strategies and African initiatives ,of plans, programs and projects;
- Develop an institutional implementation of governance CIP SR (2020-2030) including a stakeholder analysis;
- Develop a resource mobilization strategy with a communication and advocacy plan including stakeholder analysis;
- Producing documents of the Investment Climate Plan (2018-2030) and the Regional Priority Program (2018-2020),
- Develop a monitoring and evaluation plan for the implementation of CIP SR (2018-2030) together with its priority program
- Develop a general methodology of the study to present to a framing workshop
- Attend workshops, scoping and validate delivered products;
- Integrating the observations and comments from two workshops;

The estimated level of effort to the Head of Mission is 3 and a half months from the date of signing the contract.

- **Consultant, Natural Resource Environment-Management, Head of Mission in second**

The Environmental / Natural Resource Management Consultant must have seven (7) years experience in the areas of climate change, evaluation of African policies, strategies and initiatives, plans, programs and projects in the areas of integrated management of Terrestrial, mountainous and coastal ecosystems. It must justify similar missions, particularly in the analysis of issues and the management of natural resources. He must justify similar missions, particularly in the areas of analysis, vulnerability of populations and shared ecosystems including mountains and coastal zones in Africa and in the study area.

He should possess the following qualifications:

- ✓ Hold a graduate degree (Engineer Bac +5, Master or PhD) in one of the following areas: environmental science, natural resource management, climate change, sustainable development, forestry, land use.

Moreover, he must:

- ✓ Have a good understanding of continental environmental challenges and coastlines of the study area;
- ✓ Have a very good knowledge in climate risk assessment and vulnerability of people and ecosystems of the study area;
- ✓ Have a very good knowledge of community and social organizations in the Sahel;
- ✓ Have knowledge of the climate fund procedures and in particular in GCF, GEF, FA and those within the bilateral and multilateral cooperation;
- ✓ Have a great capacity for analysis, synthesis and writing;
- ✓ Be fluent in French and English;
- ✓ Having a good team spirit and support the work under pressure.

tasks:

Overall, the Consultant Environment / Natural Resources Management should contribute to the achievement of the study. Specifically he must, in its field:

- Develop in conjunction with the head of mission the diagnostic report;
- Synthesize policy evaluation analyzes, strategies and African initiatives, plans, programs and projects;
- Synthesize NDC countries in the study area to identify regional components;
- Make, in collaboration with other consultants, mapping and analysis of climate finance in the Sahel;
- Identify short, medium and long term to be considered at the regional level (2018-2030);
- Propose priority actions that can be implemented within the framework of a priority Regional Program for the resilience of populations of the Sahel, RPP-SR (2018-2020);
- Analyze as a whole and make the vulnerability study of the populations and ecosystems of the Sahel region to the variability and the climatic changes;
- Participate in regional meetings and workshops to validate the study reports.

The estimated level of effort to the consultant in Environment / Natural Resource Management is 2.5 months from the contract signing date.

- Consultant, Agro-Pastoralist;

Profile and qualifications

The Agro-Pastoralist Consultant must have seven (7) years experience in the areas of climate change, evaluation of African policies, strategies and initiatives, plans, programs and projects particularly in the fields of climate-smart agriculture, agricultural and pastoral production systems, food and nutrition security, animal husbandry and animal health. It must justify similar missions in particular in the analysis of the effectiveness and efficiency of climate finance in the study area. It must justify similar missions, particularly in the analysis of transboundary transhumance issues, pastoral resource management (pastoral water points, pasture areas, etc.).

Agro-pastoralist must have a graduate degree (minimum BAC + 5 years) in the field of agriculture and pastoralism.

In addition he must:

- ✓ Have a very good knowledge of the challenges and issues of agricultural development and pastoral of the study area;
- ✓ Have a very good knowledge of African regional integration and Sahel organizations;
- ✓ Have a knowledge on the procedures of funds of the agro-pastoral development, climate and especially the GCF, GEF, FA and those within the bilateral and multilateral cooperation;
- ✓ Have a great capacity of analysis, synthesis and writing;
- ✓ Be a fluent in French and English;
- ✓ Have a good team spirit and support the work under pressure.

tasks:

In general, the agro-pastoralist Consultant must contribute to the achievement of the study. Specifically he must, in its field:

- Synthesize policy evaluation analyzes, strategies and African initiatives, plans, programs and projects;
- Synthesize NDC in AFOLU states of the Sahel region;
- Identify short, medium and long term to be considered at the regional level (2018-2030);
- Propose priority actions that can be implemented within the framework of a priority Regional Program for the resilience of Sahel populations RPP-SR (2018-2020);
- Analyze populations and agro-pastoral production systems overall vulnerability of Sahel region;
- Attend workshops, scoping and validation.

The estimated level of effort to pastoralism consultant is 2 months from the contract signing date.

- **Consultant, energy and energy efficiency.**

Profile and qualifications

The Energy Consultant and Energy Efficiency must have seven (7) years of experience in the areas of climate change, evaluation of African policies, strategies and initiatives, plans, programs and projects in the energy field in general and renewable energies in particular. He must justify similar missions in particular in the analysis of issues related to energy efficiency and alternative energy (solar, wind, water, mineral coal, gas etc.).

The energy Consultant and energy efficiency should have an advanced degree (minimum BAC + 5 years) in the field of energy.

Moreover, he must:

- ✓ Have a very good knowledge of energy issues and challenges in the study area;
- ✓ Good knowledge in inventory and Gas projection Greenhouse in the energy sector;
- ✓ Have a very good knowledge of African regional integration organizations and study area loaded with energy issues;
- ✓ Having a knowledge of the procedures of the funds of energy development, climate and especially the GCF, GEF, FA and those within the bilateral and multilateral cooperation;
- ✓ Have a great capacity for analysis, synthesis and writing;
- ✓ Be fluent in French and English;
- ✓ Having a good team spirit and support the work under pressure.

tasks:

In general, the energy consultant and energy efficiency must contribute to the achievement of the study. Specifically he must, in its field:

- Synthesize policy evaluation analyzes, strategies and African initiatives, plans, programs and projects;
- Synthesize NDC in the energy sector of the States of the Sahel region;
- Identify short, medium and long term to be considered at the regional level (2018-2030);

- Propose priority actions that can be implemented within the framework of a priority Regional Program for the resilience of Sahel populations RPP-SR (2018-2020);
- Analyze overall vulnerability of energy production in the Sahel region;
- Attend workshops, scoping and validation.

The estimated level of effort to the energy consultant is 2 months from the contract signing date.

- **Consultant in water resources management**

Profile and qualifications

The water resources management consultant must have an experience of seven (7) years in the areas of climate change, policy evaluation, strategies and African initiatives, plans, programs and projects in the areas of water resource integrated management. He must justify similar missions in particular in the analysis of issues and management of transboundary water resources, particularly in the basins of Lake Chad, Niger River, Senegal River and Gambia River.

The consultant in water resources management must have a graduate degree (minimum BAC + 5 years) in hydrogeology.

Moreover, he must:

- ✓ Have a very good knowledge of challenges and issues in the integrated and sustainable management of water resources in the Sahel Region;
- ✓ Have a very good knowledge of African regional integration organizations and Sahel loaded shared management of water resources (NBA, LCBC, etc.);
- ✓ Have knowledge of the Paris Declaration on aid effectiveness to development and the shared vision for water resources management.
- ✓ Having a knowledge of the procedures of the funds dedicated to the management of water resources, climate and particularly the GCF, GEF, FA and those within the bilateral and multilateral cooperation;
- ✓ Have a great capacity for analysis, synthesis and writing;
- ✓ Be fluent in French and English;
- ✓ Having a good team spirit and support the work under pressure.

tasks:

Generally, the water resources management consultant must contribute to the achievement of the study. Specifically he must, in his field:

- Synthesize policy evaluation analyzes, strategies and African initiatives, plans, programs and projects;
- Identify short, medium and long term to be considered at the regional level (2018-2030);
- Propose priority actions that can be implemented within the framework of a priority Regional Program for the resilience of Sahel populations RPP-SR (2018-2020);
- Analyzing the overall vulnerability of the Sahel region facing drinking water supply , irrigation, livestock, industries and hydroelectric power supply;
- Attend workshops, scoping and validation.

The estimated level of effort to water resources management consultant is 2 months from the contract signing date.

- **Consultant, Communications and Advocacy**

Profile and qualifications

Consultant in communication and advocacy should have experience of seven (7) years in the development of communication plans and advocacy in rural development field.

He must prove similar missions in the areas of climate change, policy assessment, strategies and African initiatives, plans, programs and projects.

Consultant in communication and advocacy must have a graduate degree (minimum BAC + 5 years) in his field of competence.

Moreover, he must:

- ✓ Have a very good knowledge about social and environmental issues and challenges in the study area;
- ✓ Have a very good knowledge of African regional integration organizations and Sahel loaded shared management of water resources (NBA, LCBC, etc.);
- ✓ Having a knowledge advocacy for resource mobilization, particularly the GCF, GEF, FA and those within the bilateral and multilateral cooperation;
- ✓ Have a great capacity for analysis, synthesis and writing;
- ✓ Be fluent in French and English;
- ✓ Having a good team spirit and support the work under pressure.

tasks:

Overall, the Consultant in communication and advocacy must contribute to the achievement of the study. Specifically he must, in his field:

- Identify short, medium and long term actions to be considered at the regional level (2018-2030);
- Propose priority actions that can be implemented within the framework of a Regional Priority Program resilience of Sahel populations RPP-SR (2018-2020);
- Contribute in conjunction with the Head of Mission, in the development of the resource mobilization strategy;
- Developing the communications plan and advocacy;
- Attend workshops, scoping and validation.

The estimated level of effort for the consultant in communication and advocacy 1.5 months from the contract signing date.

VII. Working languages

The consultants working languages are French and English.

VIII. Duration of Study

The study covers a period of 4 months according to the following schedule:

Activities	duration
Regional Workshop Three	2 days
deliverables: <ul style="list-style-type: none"> - A diagnostic report (physical, financial aspect and governance aspect) - a climate investment plan for the Sahel Region CIP SR (2018-2030) including priority regional program RPP-SR (2018-2020) for the resilience of populations and ecosystems of the study area; - a resource mobilization strategy accompanied by a communication and advocacy plan CIP SR ; - an institutional implementation of CIP SR 2018-2030 including a stakeholder analysis; - a monitoring and evaluation plan for the implementation of CIP SR 2018-2030; 	4 months
Regional Validation Workshop: <ul style="list-style-type: none"> - a climate investment plan for the Sahel Region CIP SR (2018-2030) including priority regional program RPP-SR (2018-2020) for the resilience of populations and ecosystems of the study area; - a resource mobilization strategy accompanied by a communication and advocacy plan CIP SR ; - an institutional implementation of CIP SR 2018-2030 including a stakeholder analysis; - a monitoring and evaluation plan for the implementation of CIP SR 2018-2030. 	3 days
Permanent Final Report	15 days

IX. Constraints and risks

CIP SR 2018-2030 and RPP-SR 2018-2020 are expected by the end of December 2017 or within 10 months and must be submitted to the Summit of Heads of State and Government of the African Union (AU) in January 2018.

However, the risks and constraints are taken into account:

- the approval time of RDTs by stakeholders;
- the mobilization of financing;
- the process of selecting individual consultants
- the time travel in the countries of the sub-region of the field of study.