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| **DETAILED LOGICAL FRAMEWORK FROM COMPONENT/OUTCOME LEVEL TO ACTIVITY LEVEL.** | | | | | | | | | |
| **Description** | **Indicators** | | **Baseline** | | **Targets (mid-term)** | **Targets (final)** | **Sources and means of verification** | | **Assumptions** |
| **Component 1:** Innovative Financing Mechanism to foster the best adaptation practices and use of renewable energy along agricultural value chains.  **Outcome 1:** Reduced obstacles (market, liquidity/interest rate constraint) to credit access for Cooperatives, MSMEs, Farmers Organizations and resilience to climate change strengthened. | | | | | | | | | |
| **Output 1.1**: Established Financing Facility within BAGRI with a line of credit to support concessional loans by FO, MSMEs cooperatives and commercial banks to adopt the best adaptation practices along agricultural value chains to increased yields for agricultural produce in the face of increasing droughts. | Numbers of MFIs, commercial banks, , FOs, MSMEs, cooperatives, individuals benefiting from loans including competitive structured loans to increase best adaptation practice.  Growth in volume and performance in lending portfolio in portfolio of target beneficiaries amongst participating institutions | | 0 | | At least 15 MFIs 5 Commercial banks provide lending loans including competitive structured loans to 100 FOs and or cooperative and 75 MSME benefiting 45,750 individuals (20,588 (45%) women and 25,162 (55%) youth) to promote best adaptation practices including EbA,  8% growth in lending and 5% reduction in NPLs in portfolio of target beneficiaries amongst participating institutions | At least 30 MFIs, 5 Commercial banks provide lending loans including competitive structured loans to, 250 FOs and 150 MSME benefiting 87,500 individuals (39,375 (45% )women and 48,125 (55%) youth) to promote best adaptation practices including  EbA 10% growth in lending and 10% reduction in NPLs in portfolio of target beneficiaries amongst participating institutions | Project reports, stakeholder surveys, FI portfolio reports, FO and beneficiary organization records , | | Communities and organisations willing to adopt best adaptation practices in agricultural value chains |
| Number of hectares (crop area) where moisture stress is managed | | Project reports, surveys | | 0 | 5,000 | 10,000 | | No major natural disaster affects the Project Area and farmers willing to manage moisture stress |
| Number of hectares of farmland under water-related infrastructure constructed/rehabilitated (by irrigation systems) | | Project reports, surveys | | 0 | 1,500 | 3,000 | | Suitable construction companies available and irrigation technologies  Timely procurement |
| Yields[[1]](#footnote-1) (kg/ha) . key commodities | | Project reports, surveys | | 1 ( maize)  0.4492 (millet)  0.30 (sorghum )  2.54 (rice)  0.41 ( peanut) | 2 ( maize)  0.60 (sorghum)  3,6 ( rice)  0,8 ( peanut) | 3 ( maize)  0.70 (sorghum )  4,5 ( rice)  0,8 ( peanut) | | No major natural disaster affects the Project Area and farmers adopting sustainable production and using the right climate resilient techniques |
| **Output 1.2**: Established Financing Facility within BAGRI with a line of credit to support concessional loans by FO and or cooperatives,, MSMEs commercial banks and solar operators to adopt the use RETs to power the agricultural value chain | Numbers of Commercial banks, , solar companies and operators , FO and or cooperatives, MSMEs (women led and youth led (male/women) benefiting from loans including competitive structured loans to promote energy for agriculture  Growth in volume and performance in lending portfolio of target beneficiaries amongst participating institutions | | 0 | | At least 15 MFIs 5 Commercial banks provide lending including competitive structured loans to 15 solar companies., 150 FOs and or cooperatives and 75 MSME 100 cooperatives benefiting 43,750 individuals (19,688 (45%) women and 24,063 (55%) youth) to promote energy for agriculture,  8% growth in lending and 5% reduction in NPLs in portfolio of target beneficiaries amongst participating institutions | At least 30 MFIs 5 Commercial banks provide lending including competitive structured loans to 15 solar companies, 250 FOs and or cooperatives, 150 MSME benefiting 87,500 individuals (39,375 (45% )women and 48,125 (55%) youth) to promote energy for agriculture,  10% growth in lending and 10% reduction in NPLs in portfolio of target beneficiaries amongst participating institutions | Project reports, stakeholder surveys, FI portfolio reports, FO and beneficiary organization records, Project reports, interviews with local communities, FOs, Cooperatives, MSMEs solar operators, private operators, | | Communities and Organisations are willing to adopt best innovative rural electrification model through hybridized solar micro and mini-grids, off-grid solutions, standalone systems for powering agricultural value chains |
| **Output 1.3**: Set up the two credit lines | Number of operational green credit lines and no and volume of loans under each | | 0 | | 2 credit lines ( one of adaptation and one on RET established and operational ) and volume (4,250,000 eur) and 500 no of loan under each | 2 credit lines ( one of adaptation and one on RET established and operational ) and volume (8,500,000 eur) 1100 no of loan under each | Project reports, stakeholder surveys, FI portfolio reports, | | Banks supportive and willing to set up the credit lines within its operations |
| **Component 2:** Capacity-building and technical assistance for FOs, cooperatives, MSMEs and BAGRI (GCF Grant)  **Outcome 2**: Strengthened capacity of FOs, Cooperatives, MSMEs, BAGRI and microfinance institutions on the best adaptation and mitigation measures, tools production models for improving organizational capabilities and the introduction of new technologies for adaptation/mitigation to climate change. | | | | | | | | | |
| **Output 2.1**: Strengthened capacity and business planning for FOs and or cooperatives, MSMEs including solar operators ( disaggregated by gender and Youth ), to design business plans and access green lines products from BAGRI and other MFIs and commercial banks and implement diversified, climate resilient livelihood options. | Number of FOs, MSMEs and solar operators, and cooperatives, individuals that receive training/education and use tools developed to design business plans to access green lines products and implement diversified, climate resilient livelihood options. | | limited number of MSMEs and solar operators, and cooperatives that receive training/education | | At least 250 FOs, and or cooperatives 150 MSMEs, 87,500 individuals (39,375 (45%) women and 48,125 (55%) youth) receive training/education and able to design business plans to access green lines products and implement diversified, climate resilient livelihood options | At least 500 FOs and or cooperatives, 300 , MSMEs, 175,000 individuals, 300 cooperatives (135 (45%) female, 165 (55%) youth) receive training/education and able to design business plans to access green lines products and implement diversified, climate resilient livelihood options | Project reports, banks MFIs reports, stakeholder surveys (ministry of health, water, local development) | | Banks, MFIs supportive and adopt tools and methods etc. to respond to climate change and variability |
| **Output 2.2**: Improved readiness and capacities of BAGRI, MFIs, Commercial Banks to seize market opportunities for lending to FOs, Cooperatives, MSMEs including solar operators investing in low emission and climate resilient agriculture | Number of financial institutional that adopt and incorporate gender sensitive climate risk management practices, policies and procedures to grow lending directed towards low emission and climate resilient agriculture | | Zero MFIs and commercial banks and Development Bank (BAGRI) not yet designing, adopting and rolling out green financing products | | At least 5 banks and 15 MFIs adopt and increase lending towards low-emission and climate resilient agriculture to  250 FOs, and or cooperatives, 150 MSMEs including solar operators (68 (45%) women led and 82 (55%) youth led) , | At least 8 banks and 30 MFI are ready for climate lending to 500 FOs and or cooperatives and, 300 MSMEs including solar operators (135 (45%) women led and 165 (55%) youth led) | Project reports, Stakeholder surveys, FI portfolio reports, Energy regulations and policies. | | Assuming that half of the Banks and MFIs buy in and are committed to developing credit lines for climate resilient agriculture  Climate resilient agricultural solutions promoted by FOs, MSMEs, Cooperatives, MFIs will improve the resilience of ecosystems and people's livelihoods  Willingness of Government of Niger to adopt or enhance regulations to provide incentives |
| **Output 2.3**: Improved policy dialogue, government coordination and capacity , advocacy and learning, Knowledge management , information dissemination and stakeholder engagement | Number of stakeholders involved in sharing best practices and lessons learnt under the project and integrating them in their policies, procedures and practices, etc.,(disaggregated by type of stakeholder - FOs, MSMEs, solar operators, etc.),  Energy regulatory systems that improve incentives for climate resilience and effective implementation  Cross sector coordination mechanisms, trained staff | | 0 | | 250 FOs and or cooperatives, 150 MSMEs, 15 solar operators, 3 government ministries ( ministry of agriculture, Ministry of local development, Ministry of Environment ) etc. involved in sharing best practices and lessons learnt under the project and at least 80% integrating them in their policies, procedures and practices, etc.  2 draft energy regulations providing incentives for use of low emission energy for agriculture drafted | 500 FOs and or cooperatives, 300 MSMEs, 30 solar operators, 5 government ministries ( ministry of agriculture, local development, Ministry of Youth, Ministry of Gender , Ministry of Environment ) etc. etc. involved in sharing best practices and lessons learnt under the project and 100% integrating them in their policies, procedures and practices, etc.  4 energy regulations providing incentives for use of low emission energy for agriculture adopted and implemented | Project reports, policy and strategies developed and endorsed by Institutions (FOs cooperatives, Government, etc.), Stakeholder survey reports, | | Assuming that dialogue and consultations carried out with all stakeholders |
| **Output 2.4:** Increased number of women and youth entrepreneurs engaged in EbA, Energy, climate resilient agriculture, including at decision making levels along the agricultural value chains | Number of women and youth engaged in EBA, Energy, and climate resilient agriculture , and number of women leading/participating at decision-making level along the agricultural value chains  Number of women that received financial literacy and access to finance. | | Baseline surveys to be carried out during the  start-up  assessment | | At least 20,000 women and 30,000 youth involved in EBA, energy and climate resilient agricultural activities and at least 10,000 women leading and/or participating at decision making level  At least 39,375 women receive financial literacy and access to finance | 78,750 women and 95,250 youth involved in EBA, energy and climate resilient agricultural activities and at least 20,000 women leading and/or participating at decision making level  78,750 have received financial literacy and have access to finance | Surveys, project reports, M&E reports, portfolio reports, FO and cooperatives membership registers | | Women are interested in and will seek leadership/decision making positions |
| **Component 3:** Incentive scheme to encourage MFIs, FOS, cooperatives and MSMEs to adopt adaptation and mitigation measures.  **Outcome 3:** Greater adoption of climate resilient adaptation methods as a result of incentives | | | | | | | | | |
| **Output 3.1:** Operational SAHEL AWARD | | Number of awards issued and the total amount of funds distributed through them.  Number of participants to the Award | | 0 | At least 25 recipients receive the SAHEL of which at least 11 (45%) are women and 14 (55% youth  At least 20,000 people of out the total beneficiaries participate to the SAHEL AWARD | At least 50 recipients receive the SAHEL of which at least 23 (45%) are women and 27 (55%) youth  At least 50,000 people of out the total beneficiaries participate to the SAHEL AWARD | | Award certificates, funds distributed through the awards, award ceremonies, minutes of application review meetings. | Provision of grants through the award system stimulates greater adoption of resilient agricultural practices encouraging innovation in climate resilient agricultural systems. |
| **Output 3.2:** Women and youth are incentivized to implement climate adaptation and mitigation measures and RET along the agricultural value chains | | Number of women and youth that receive incentives and implement climate adaptation and mitigation measures and RET along agricultural value chains  Number of women and youth participating to the AWARD | | 0 | At least 20,000 women beneficiaries  at least 35,000 youth receive incentives and implement climate adaptation and mitigation measures and RET along agricultural value chains  At least 55,000 people ( 25,000 women and 30,000 youth) of out the total beneficiaries participate to the SAHEL AWARD | At least 45,000 of women and 50,000 of youth receive incentives and implement climate adaptation and mitigation measures and RET along agricultural value chains  At least 95,000 people ( 42,750 (45%) women and 52,250 (55%) youth) of out the total beneficiaries participate to the SAHEL AWARD | | Project and M&E reports, surveys | Specific criteria's targeting youth and women included into the AWARD protocols and youth and women interested |
| **Project and Knowledge Management:** Established Project Management Unit to coordinate the operation of the project and established M&E system to ensure appropriate monitoring and reporting of the project. | | | | | | | | | |

| **ACTIVITIES UNDER EACH OUTPUT** | | | |
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| **Related output** | **Activity** | **Description** | **Input** |
| **Output 1.1** | 1.1.1: Functional line of credit for adaptation | * Create a funding window (window 1) dedicated to loans for adaptation measures (funded with GCF loan EUR 2,975 M and IFAD loan EUR 1,7M) and providing credit facilities to FO, MSMEs and cooperatives with tailored eligibility criteria to adopt the best adaptation practices and EbA * Targeting 45% women led and 55% youth led organisations | On lending resource |
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| **Output 1.2** | 1.2.1: Functional line of credit for energy for agriculture | * Create a funding window (window 2) dedicated to loans for solar energy for agriculture (funded with GCF loan 2,975 million and BAGRI funds EUR 850,000) and providing credit facilities to by FO, MSMEs and cooperatives with tailored eligibility criteria for the use of renewable energy along agricultural value chains * Targeting 45% women led and 55% youth led organisations | On lending resource |
| **Output 1.3** | 1.3.1: Set up the two credit lines | * ToRs for the consultant to support BAGRI set up the two credit lines | Consultants, travels |
| **Output 2.1** | 2.1.1: Capacity building on Business Plan development | * A least 5 Training of FOs, MSMEs, Cooperatives on how to design climate resilient business models that meet BAGRI eligibility criteria * Hiring consultants to provide technical assistance in designing business plans, including environmental and climate analysis , financial assessment, accompaniment of the final design to obtain the credit * Adjusting and refining the training guidelines with feedback from the training sessions. | Consultants, travels, workshop |
| 2.1.2: Capacity building on financial climate resilient products | * Training of FOs, MSMEs, Cooperatives on financial literacy and financial services * Training on how to access BAGRI green lines product | Consultants, travels, workshop, |
| 2.1.3: FOs, FOs, MSMEs, Cooperatives trained with knowledge and skills for implementing climate resilient agriculture and EbA | * Training facilitated by experts for FOs, MSMEs, Cooperatives on climate resilient agriculture , EbA including agroforestry * Field visit/schools and demonstrations of existing and impactful climate resilient methods and EbA * Workshops for youth and women led MSMEs on best adaptation and EbA practices, agroforestry | Consultants, travels, workshop, |
| 2.1.4: Capacity building/ promoting renewable energy for agriculture | * At least 5Training facilitated by experts for FOs, MSMEs, Cooperatives on powering the agricultural sector with RET * A least 5Training facilitated by experts for FOs, MSMEs, Cooperatives on the best energy solutions and options ( hybridized solar micro and mini-grids, off-grid solutions, standalone systems ) for VC development * A least 5 Training/ Workshop for FOs, MSMEs, Cooperatives on CO2 calculation in the energy sector | Consultants, travels, workshop, |
| 2.1.5 Support FOs, MSMEs led by women and youth to structure their businesses | Tailored leadership training to generate champions / role models on climate resilient agriculture and business opportunities with youth and women led MSMEs | Consultants, travels, workshop, |
| **Output 2.2** | 2.2.1: Technical assistance on green lending and climate risk management | * A least 5 Training facilitated by experts on green lending to all banks, MFIs and climate risk management and incorporation into their lending portfolio and governance | Consultants, travels, workshop, |
| 2.2.3 Technical Assistance to enhance governance and management of loan products and green lines policy gap (identification, definition, gap assessment including gender and closing the gap.) | * Assessment of policy gap, governance and management capacity; governance structure * Support the design of institutional governance policies, processes and procedures and ensure gender balance staffing within BAGRI and MFIs are part of management and decision-making processes of loan products. * This includes the staffing structure of the facility and coordination with the BAGRI board of directors and the other departments of the bank while ensuring women representation * Support the design of policy documents / Protocols/ guidelines, Operational manual to ensure that lines of credit are managed appropriately and in alignment with international standards which take into account gender considerations | Consultants, technical assistance, studies, travel |
| 2.2.4: Development of a package of tools and instruments | * Design of tool to support the identification of bankable and de-risked projects submitted to BAGRI : * Smart credit-scoring tool combines detailed cash flow estimates with climate risk assessments (including loan agreement requirements for climate-smart agricultural and land management practices) and energy for agriculture to more comprehensively calculate the credit worthiness and projects submitted in the context of climate change risk. * Identification/ Eligibility Criteria, loan agreement and M&E of investments. Gender considerations to be included * Tool for climate related projects assessment (C02 measurement etc.) * Development of a compliance tool, similar to the ones used by the IFIs, to assess social, environmental and climate risks and to define an improved course of action for assessing social, environmental and climate risks to enhance sustainability. GCF and IFAD standards will be included into the development of the compliance tool. * Guidelines on access to funding and how the application process works * Communication and marketing tools * Capacity building plan | Consultants, technical assistance, studies, travel, implementation of tools |
| 2.2.5: Awareness raising and training on climate resilient agriculture | * Communication campaign via visits, website, radio messages … ( 2.5 publications 5 briefs, 2 videos and radio programmes and catalogues produced) * Mobilize expertise and transfer of skills on low emission climate resilient agriculture * Training on gender issues in Agriculture for IFI * Development of Adaptation and mitigation program for BAGRI and other MFIs * Training on climate change communication in Agriculture and investment opportunities | Consultants, travels, workshop, |
| **Output 2.3** | 2.3.1: Round table and events | * Events / Policy dialogue to design a regulatory framework to unlock financing beyond the project and increase awareness on and visibility of climate resilient agriculture through the project lifecycle; | Travel, workshops, studies and publications, |
| 2.3.2: Organize South-South and triangular cooperation visit tour for experience sharing. | * A least 3 visits and establish times and dates to schedule visits from South – South and Triangular corporations and prepare draft agendas listing agreed upon topics for specific experience sharing beneficial to the project. | Travel, workshops |
| 2.3.3: Knowledge management | * Dissemination of the lessons learned, establish databank containing information on innovative projects, organised as an integrated platform offering easy access to information on best adaptation and mitigation practices to farmers, farmers’ organizations, cooperatives and MSME, | Consultants, studies and publications, |
| **Output 2.4** | 2.4.1 Improve financial literacy for women and youth. | A least 5 capacity building for women and youth, facilitated by micro finance and adaptation experts on financial literacy and implications for adaptation mechanisms | Consultants, travels, workshop, equipment |
| 2.4.2: Capacity building to ensure women and youth are actively involved in natural resources management committees | * Training facilitated by experts for NRM committees, cooperatives and village user groups on the importance of social inclusion. * Field visit/schools and demonstrations of existing and impactful NRM, agroforestry examples where women and youth are included. | Consultants, travels, workshop, equipment |
| 2.4.3: Carry out surveys on gender inclusive natural resource management practices | * Conduct a mapping exercise on how female headed household have access to resources (land, forest, credit, etc.) and how the project could empower them through its intervention as well as youth | Consultants, travels, equipment |
| 2.4.4 Women are represented in the decision making process and reviewing business plans from clients | * Establish a formalised institutional culture to ensure female staff within BAGRI and MFIs are part of management and decision-making processes of loan products. * Gender values integrated into BAGRI internal guidelines and tools * Establish protocols to ensure gender values are reflected in lending products | Consultants, travels, workshop, |
| **Output 3.1** | 3.1.1: Organize annual Sahel -Award event | * Set up a SAHEL Award, which consists grant of maximum of EUR 8,500 refund distributed to the best projects submitted within a year and organize an Annual SAHEL Award Ceremony event will be organized to honour changes in attitudes and the best adaptation and mitigation projects, initiatives developed at national level by MFIs, FOS, cooperatives and MSMEs. | Consultants, travels, workshop, equipment |
| 3.1.2: Organize events to replenish the SAHEL-AWARD | * Organize round tables and or donor meetings to mobilize sponsors and funding to sustain the SAHEL AWARD incentive | Consultants, travels, workshop, equipment |
| 3.1.3: Develop application protocols and framework for the award. | * Hiring of technical experts to refine and support the implementation of the SAHEL AWARD concept including eligibility criteria and decision making framework for the award | Consultants, travels, workshop, equipment |
| **Output 3.2** | 3.2.1: Enrol women and youth to compete for the SAHEL AWARD | * Communication campaign via visits, website, radio message and advocacy to enrol more women and youth led MSMEs, FOs., | Travel, equipment |

1. The M&E system will track yield indicators (rainfed an irrigated systems with sustainable production). [↑](#footnote-ref-1)