
Gender Action Plan

F094: Ensuring climate resilient water supplies in the Comoros Islands

Comoros | United Nations Development Programme | B.21/10

28 September 2018



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Gender Action Plan and Budget

This Gender Action plan provides suggested entry points for gender-responsive actions to be taken during project implementation. In addition, specific indicators and targets are also proposed to measure and track progress on these actions at the activity level. This can be incorporated into the detailed M&E plan which will be developed at the start of implementation and provides concrete recommendations on how to ensure gender (including disaggregated data) continues to be collected and measured throughout the project implementation.

| Objective | Action | Targets and Indicators | Partner Institution | Timeline | Allocated budget (\$) |
|--|--|---|---|--------------------------|-----------------------|
| TOTAL | | | | | 2,727,931 |
| Output 1: Climate informed water supply planning and management | | | | | |
| Activity 1.1: Prepare recommendations and legal guidance on the integration of climate change adaptation into the national (federal) and regional (state) water sector agencies governance frameworks, regulations and operations. | 1.1.1 Legal consultancy for existing legislation review on Climate Resilience inclusion, drafting of Primary (Water Code) and Secondary legislation, regulations; and 3 rounds of consultation meetings with national agencies. 1.1.2 Consultancy providing recommendations on the climate resilient water planning, budgeting and operations with special focus on the project targeted areas (with special focus on gender mainstreaming) | Baseline: 0 Target: 50% women and youth beneficiaries Indicator: <ul style="list-style-type: none"> Gender aspects integrated in the new Water Code. Number of men, women and youth engaged in trainings on best practices for water management | Gender expert and National Commission for Gender (NCG) | Q3, Year 1 to Q1, Year 4 | 283,625 |
| Activity 1.2: Develop water sector climate change risk reduction awareness raising programme for national and state agencies and establish CCA knowledge and information exchange | 1.2.1 Design of awareness raising webinars (with focus on gender) 1.2.2 Set-up of an open access (web based) central knowledge platform hub for accessing global/regional climate vulnerability assessments and adaptation | Baseline: 0 Target: 50% women beneficiaries Indicator: <ul style="list-style-type: none"> Number of documents with gender considerations; | Gender expert, NCG, Gender Representative in in DGEF / DGEME, MA-MWE, ANACM | Q3, Year 1 to Q4, Year 5 | 174.361 |



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| mechanisms | awareness materials available to all authorities involved in the water sector and agriculture planning | <ul style="list-style-type: none"> Collect data on the number of men and women accessing central knowledge platform | | | |
| Activity 1.3: Develop and apply criteria for assessing socially sensitive water pricing mechanisms ensuring prices take into account the actual costs of production, storage and processing required in view of the projected climate stresses | <p>1.1.3 Technical consultancy services on systematic approaches to water sector climate risk assessment and risk reduction (ie. UNICEF Drinking Water Safety and Security Planning -DWSSP) and assistance on inclusion in work programmes and planning.</p> <p>1.3.1 Consultancy services to conduct economic and social analysis/evaluation, on-the-ground survey, evaluation, analysis of water users and service providers across all 3 islands to determine acceptable tariff structures required to sustain climate resilient water supplies.</p> | <p>Baseline: 0 Target: 50% women beneficiaries</p> <p>Indicator:</p> <ul style="list-style-type: none"> Number of women and youth engaged in the discussion on water tariffs | Gender expert, NCG, Gender Representative in in DGEF / DGEME, MA-MWE, ANACM | Q3, Year 1 to Q4, Year 5 | 174.361 |
| Activity 1.4: Develop planning guidance on source protection and water quality standards in view of climate change, operating procedures during periods of drought/floods; and safety plans | <p>1.4.1 Consultancy services to collect best practises on Drinking Water Safety and Security Planning (DWSSP), including source protection, drought and flood event O&M, and water quality monitoring requirements, tailored to Comoros national state sector planning and regulatory requirements - with consultations on each island.</p> <p>1.4.2. Preparation of Safety Plans under the Water Master Plan to respond to (i) intense precipitation</p> | <p>Baseline: 0 Target: 50% women</p> <p>Indicator:</p> | Gender expert, NCG, Gender Representative in in DGEF / DGEME | Q3, Year 1 to Q4, Year 5 | 174.361 |



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| | (ii) increased or prolonged drought (iii) saline intrusion | | | | |
| 1.5. Design and conduct trainings on best practices and gender-sensitive techniques of climate change adaptation in the context of water management, health and nutrition among national, regional and local water stakeholders | 1.5.1 Consultancy services to develop and deliver climate change national and state (island) level training programme (4 x 3-day workshops to 20 agencies) on water adaptation best practices and gender-sensitivity in water management, health and nutrition | Baseline: 0 Target: 50% women and girls, children and youth beneficiaries Indicator: <ul style="list-style-type: none">Number of women and girls, youth and children engaged in training programmes on improved health and wellbeing conditions, and improved nutrition | Gender expert, NCG, Gender Representative in in DGEF / DGEME, MA-MWE, ANACM | Q3, Year 1 to Q4, Year 5 | 100.000 |
| 1.6 Strengthen decentralized water resources management capacities to undertake climate risk reduction assessments and develop and deliver awareness campaigns and training programmes to Water Management Committees and users | 1.6.3. Train DGEF / DGEME and their decentralized island (DR) agencies in the planning and regulation of climate risk reduction approaches to water management at the communal level and implement the tariff standards for water 1.6.4. Organize 8 participatory workshops to train all members of water management committees to use UNICEF Drinking Water Safety and Security Planning climate risk reduction design and operation procedures | Baseline: 0 Target: 50% women Indicator: <ul style="list-style-type: none">Number of men and women trained on the use of UNICEF Drinking Water Safety and Security Planning climate risk reduction and operation proceduresNumber of women trained to lead Water Management Committee discussions;Number of men and women trained in Water Management Committees | Gender expert, NCG, Gender Representative in in DGEF / DGEME, MA-MWE, ANACM | Q3, Year 1 to Q4, Year 5 | 174.361 |



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| Objective | Action | Targets and Indicators | Responsible Institution(s) | Timeline | Allocated budget (\$) |
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| Output 2: Climate Informed Water Resources and Watershed Management including forecasting and early warnings of climate risks | | | | | |
| Activity 2.1: Establish climate resilience focused IWRM Committees and Watershed Risk Reduction Action Plans in the project intervention areas | <p>2.1.1 Establish and formalize the IWRM management committees in each watershed, prioritising climate resilience and adaptation approaches</p> <p>2.1.2. Carry out a mapping survey of areas vulnerable to climate risks, particularly those exposed to saltwater intrusion to allow analysis of risk scenarios</p> <p>2.1.3. Train IWRM committees understanding of climate risks and adaptation options that ensure access to adequate water quality</p> <p>2.1.4. Develop action plans for river basins, taking into account climate change impacts on rainfall patterns, floods, rising temperatures and increasing salinity</p> <p>2.1.5. Provide expert consultant(s) for the development of Water Code Decrees to integrate IWRM best practices to address the risks of climate change and facilitate knowledge exchange and formal collaboration between IWRM Committees and DG / REF</p> | <p>Baseline: 0</p> <p>Target: 50% women beneficiaries</p> <p>Indicator:</p> <ul style="list-style-type: none"> • Number of reports and surveys with integrated gender considerations; • Number of women and men included in the IWRM Committees (at least 30% women). • Women representative/s included in development of IWRM Plans of Action for expertise and to ensure that women’s situation is taken into account and that women receive the necessary information • Number of women leading community-based soil and water conservation measures. • Number of men and women participating in recharge zone improvement activities. | NCG and Gender Representative for DGEF | Q4, Year 1 to Q2, Year 5 | 139,223 |



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| <p>Activity 2.2 Implement the water protection and risk mitigating measures on the ground/operationalize the risk reduction plans</p> | <p>2.2.1. Implement soil conservation measures at community level in watersheds of 15 target areas to reduce increase rainfall intensity erosion</p> <p>2.2.2. Upgrade community-based recharge areas in 11 watersheds to protect drought flows through reforestation and to other appropriate techniques</p> | <p>Baseline: 0 Target: 30% women beneficiaries</p> <p>Indicator:</p> <ul style="list-style-type: none">• Number of single women-led households receiving awareness training;• Number of public awareness workshops, including a gender component. | <p>NCG and Gender Representative for DGEF</p> | <p>Q4, Year 1 to Q2, Year 5</p> | <p>119,301</p> |
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| <p>Activity 2.3 Establish water source protection zones and raise public awareness on climate risk reduction benefits of watershed management</p> | <p>2.3.1. Legal advisory services to be provided to IWRM committees for the implementation of climate resilience establishing watershed-specific zoning regulatory frameworks for the protection of recharge areas</p> <p>2.3.2. 8 training to Train IWRM committee trainers in mainstreaming climate change adaptation, integrated water resources management strategy, planning and budgeting, business models, management fees and performance monitoring.</p> <p>2.3.3. Organize 5 public awareness workshops on increasing watershed resilience to climate change and ensuring the preservation of water resources good water management practices, including soil and water conservation, and reforestation</p> | <p>Baseline: 0</p> <p>Target: 50% women beneficiaries</p> <p>Indicator:</p> <ul style="list-style-type: none"> • Gender disaggregated % of population with access to improved water management information on floods and drought periods; • Number of men and women as lead trainers. • Number of public awareness workshops, including a gender component. • Number of men and women participants in training of trainers' sessions. | <p>NCG and Gender representative in DGEF / ANACM, MA-MWE</p> <p>University of Comoros</p> <p>Meteorology Department</p> | <p>Q4, Year 1 to Q3, Year 5</p> | |
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| <p>Activity 2.4 Establish water resource monitoring network and upgrade the existing monitoring infrastructure to enable the collection of the required climate/weather data</p> | <p>2.4.1. Strengthen the dissemination of information on the water cycle and seasonal forecasts through the media and communication networks 2.4.2. Acquire and install 6 agrometeorological stations in the targeted areas of the three islands 2.4.3. Acquire and install 20 automatic rain gauges covering the three islands climate risks on water resources 2.4.4. Acquire and install radar to improve protection of water resources and storage units during periods of heavy rainfall 2.4.5. Acquire and install 9 flow measurement equipment on two islands 2.4.6. Acquire and install 43 piezometric probes for the monitoring of saline intrusion in Grand Comore 2.4.7. Strengthen the structure (climate proof) of the national hydrometeo services infrastructure to withstand with climate shocks and disasters</p> | <p>Baseline: 0 Target: 50% women beneficiaries</p> <p>Indicator:</p> <ul style="list-style-type: none"> Number of women farmers and other rural stakeholders receiving and using advisories for water management. | <p>NCG and Gender representative in DGEF , ANACM, DGEME, MA-MWE</p> | <p>Q4, Year 1 to Q4, Year 4</p> | <p>115,872</p> |
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| <p>2.5: Build the capacities of the meteorological services to analyse and produce drought and flood forecasts for targeted users, including for flood early warning system</p> | <p>2.5.1. Design and provide training to the staff of the meteorological services to develop and apply dynamic and statistical tools for seasonal forecasting</p> <p>2.5.2. Develop standardized operational procedures (SOPs) for the collection, processing and analysis of water cycle data as well as alert thresholds</p> <p>2.5.3. Design and provide training for 20 field workers on the installation and maintenance of measurement equipment</p> <p>2.5.4. Expert training design and delivery for 10 staffs of meteorological services on (i) drought indexing, (ii) preparation of annual, quarterly and monthly rainfall prediction, (iii) water resource projections based on water balance analysis; (iv) assessments/reporting to notify the relevant authorities on the droughts and floods (EW basis)</p> | <p>Baseline: 0</p> <p>Target: 50% women beneficiaries</p> <p>Indicator:</p> <ul style="list-style-type: none"> Number of women and men receiving and using advisories for water management. | <p>NCG and Gender representative in DGEF / ANACM</p> <p>University of Comoros</p> <p>Meteorology Department</p> | <p>Q4, Year 1 to Q4, Year 4</p> | <p>115,872</p> |
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| <p>2.6 Build the capacity of the key government, local authorities and committees to interpret the climate information and raise awareness of the local population to act upon the forecasts and EWS.</p> | <p>2.6.1 Conduct 8 trainings for the key government and local officials, committee trainers (that will be appointed within the committees) to interpret the climate information provided by the meteo services and identify the appropriate communication channels (e.g. different information for water services providers vs. rural farmers).</p> <p>2.6.2. Conducting awareness raising campaigns (through media) to sensitize communities to the use of forecasting and alert information on the impacts of climate risks on water resources</p> <p>2.6.3. Design new university web-based modules (1 for undergraduate and 1 for graduate students to be rolled out in the relevant specialisations/degrees such as engineering etc.) with focus on the climate change reduction</p> <p>2.6.4. Acquire hydrogeological control equipment to supporting existing university research to enable them to have capacity to conduct water quality</p> | <p>Baseline: 0 Target: 50% women beneficiaries</p> <p>Indicator:</p> <ul style="list-style-type: none"> • Number of government officials (men and women) trained in the interpretation of climate information • Number of community members (men and women) taking part of sensitization campaigns • Number of women enrolled in web-based modules and learning about climate change • Number of women and men receiving training through vocational and educational programmes. | <p>NCG and Gender representative in DGEF / ANACM</p> <p>University of Comoros</p> <p>Meteorology Department</p> | <p>Q4, Year 1 to Q4, Year 4</p> | <p>115,872</p> |
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| Objective | Action | Targets and Indicators | Responsible Institution(s) | Timeline | Allocated budget (\$) |
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| Output 3: Climate Resilient Water Supply Infrastructure | | | | | |
| Activity 3.1 Undertake climate risk assessments of existing groundwater abstraction wells to develop risk reduction pumping strategies, and construction of additional boreholes in zones at risk of drought water scarcity in Grande Comore | <p>3,3.1. Site selection confirmation for new production borehole siting based upon review of groundwater piezometer installations.</p> <p>3.1.2. Step test salinity pumping tests of 6 existing production boreholes in Zones 1 to 5 to determine optimum pumping rate</p> <p>3.1.3. Design of 5 new production boreholes in Zones 1, 2, 3 and 4.</p> <p>3.1.4. Drilling, testing and commissioning of new production</p> | <p>Baseline: 0</p> <p>Target: 50% of beneficiaries are men, women and youth engaged in information dissemination activities.</p> <p>Indicator:</p> <ul style="list-style-type: none"> • Ensure equitable access to potable water resources for men, women and youth; • Ensure that women and youth are informed of the project activities; • Grievance mechanism established. | NCG and Gender Representative in DGEF / DGEME , MA-MWE | Q4, Year 1 to Q1, Year 6 | 346,900 |



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| <p>Activity 3.2 Build infrastructure to increase resilience of water supply facilities to extended duration low flow periods, greater intensity flood flow damage and flood flow higher turbidity and bacteria loadings (Grande Comore, Anjouan island and Moheli island)</p> | <p>3.2.1 Grand Comore Island Construction of reservoir tanks, treatment plants, distribution network extensions and irrigation impluviums</p> <p>3.2.2. Anjouan Island Flood protection upgrades to surface water intakes, treatment plants, storage tanks and network extensions, and livestock and irrigation watering basins and troughs</p> <p>3.2.3 Moheli Island Flood protection upgrades to surface water intakes, treatment plants, storage tanks and network extensions, and livestock and irrigation watering basins and troughs</p> | <p>Baseline: 0 Target: 50% women beneficiaries</p> <p>Indicator:</p> <ul style="list-style-type: none"> • Number of women, men and youth with access to safe water; • Time saved for water collection by women and girls; • Number of women involved in Water User Associations. • Number of schools with improved water supply and number of children benefited. | <p>NCG and Gender Representative in DGEF / DGEME</p> | <p>Q4, Year 1 to Q4, Year 7</p> | <p>346,900</p> |
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| <p>Activity 3.3. Installation of flowmeters to support climate resilient tariff adjustments, and leakage reduction programmes to improve the water pricing and management system taking into account the additional costs associated with climatic hazards</p> | <p>3.3.1. Installation of meters to improve the water pricing and management system taking into account the additional costs associated with climatic hazards</p> <p>3.3.2 Training to the water providers on the leakage detection and leakage reduction programming, operations and maintenance of meters</p> <p>3.3.3. Consultancy to analyse the consumption patterns and draft guidance for the water providers with respect to tariffs/pricing</p> | <p>Baseline: 0</p> <p>Target: 50% women and youth beneficiaries</p> <p>Indicator:</p> <ul style="list-style-type: none"> • Number of women staff members involved in flow meter installation; • Ensured equitable access to potable water resources for men, women and youth; | <p>NCG and Gender Representative in in DGEF / DGEME , MA-MWE</p> | <p>Q4, Year 1 to Q4, Year 7</p> | <p>346,900</p> |
|--|--|---|--|---------------------------------|----------------|