

# Terminal Evaluation of the GEF funded UN Environment – UNDP project "Adapting water resource management in the Comoros to expected climate change"

### **FINAL REPORT**









Filter Tank, Pomoni-Lingoni water supply scheme

**Evaluation Office of UN Environment October 2017** 



#### **Evaluation Office of UN Environment**

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This Terminal Evaluation was prepared for the Evaluation Office of UN Environment by Thorbjorn Waagstein, Economist, PhD, as the Lead Consultant. The report benefits from a peer review conducted within the Evaluation Office of UN Environment.

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## ABOUT THE EVALUATION<sup>1</sup>

Joint Evaluation: No

Report Language(s): English

**Evaluation Type:** Terminal Project Evaluations

**Brief Description:** This report is a terminal evaluation of a UN Environment - UNDP - GEF project implemented between 2011 and 2016. The overarching goal of the project was defined in the project document as to adapt water resource management to climate change in the Comoros. The project's global environmental objective was defined in the project document as "to reduce the risk of climate change on lives and livelihoods from impacts on water resources in the Comoros". The main intended outcomes were the strengthening of institutions at national, regional and community level, the improvement of water supply and water quality for selected pilot communities to combat impacts of climate change, and increased awareness of adaptation good practice. The evaluation sought to assess project performance (in terms of relevance, effectiveness and efficiency), and determine outcomes and impacts (actual and potential) stemming from the project, including their sustainability. The evaluation has two primary purposes: (i) to provide evidence of results to meet accountability requirements, and (ii) to promote learning, feedback, and knowledge sharing through results and lessons learned among UN Environment, UNDP, the GEF and the executing partners in Comoros.

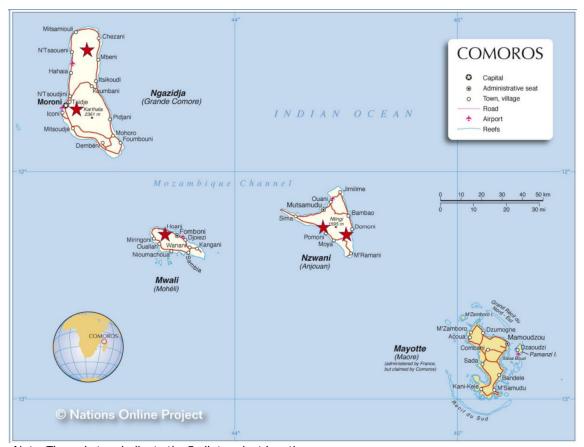
**Key words:** Climate Change Adaptation, Comoros, Water Supply, Water Resource Management, Sustainable Agriculture, Water and Soil Conservation, Reforestation, Terminal Evaluation, GEF, GEF Project

<sup>&</sup>lt;sup>1</sup> This data is used to aid the internet search of this report on the Evaluation Office of UN Environment Website

## **Project identification table**

UNEP PIMS ID:	4188	IMIS number:	
Sub-programme:	Climate Change	Expected Accomplishment(s):	
UNEP approval date:	21 December 2010	PoW Output(s):	
GEF project ID:	3857	Project Type:	FSP
GEF OP #:		Focal Area(s):	Climate Change Adaptation
GEF approval date:	18 August 2010	GEF Strategic Priority/Objective:	Climate Change - LDCF
Planned Start Date:	November 2010	Actual start date:	February 2011
Planned completion date:	November 2014	Actual completion date:	December 2016
Planned project budget at approval:	US\$ 13,056,318	Total expenditures reported as of end 2016:	UNEP: US\$ 747,989 UNDP: US\$ 2,614,364
GEF Allocation:	US\$ 1,020,000 for UNEP, US\$ 2,720,000 for UNDP	GEF grant expenditures reported as of [date]:	2,700,000
PPG GEF cost:	US\$ 30,000 for UNEP	PPG co-financing:	US\$100,000
Expected FSP co- financing:	US\$ 9,316,318	Secured FSP co-financing:	100% (according to UNDP)
First Disbursement:	23 May 2012 (UNEP part)	Date of financial closure:	Not closed yet
No. of revisions:	2	Date of last revision:	28 July 2015
Date of last Steering Committee meeting:	June 2015		
Mid-term evaluation (actual planned date):	November 2013	Mid-term evaluation (actual date):	July 2014
Future phases/related projects	UNEP/GEF (USD 5,140,000) for "Building Climate Resilience through Rehabilitated Watersheds, Forests and Adaptive Livelihoods".  UNDP/GEF (USD 8,932,421) for "Comoros: Strengthening Comoros Resilience Against Climate Change and Variability Related Disaster".		

## **Map Comoros, Administrative Divisions**



Note: The red stars indicate the 5 pilot project locations

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#### **ACRONYMS**

ACCE Climate Change Adaptation for Water Resource Management ("Projet d'adaptation de

la gestion des ressources en eau aux changements climatiques") (The project under

evaluation)

AfDB African Development Bank

AFD French Development Cooperation ("Agence Française de Développement")

ANACM National Agency of Civil Aviation and Meteorology ("Agence Nationale de l'Aviation

Civile et de la Météorologie")

ASECNA Agency for Air-traffic Security in Africa and Madagascar ("Agence pour la Sécurité de la

Navigation Aérienne en Afrique et à Madagascar")

CDRE Regional Centre for Economic Development ("Centre Régional de Développement

Économique")

CNDRS National Centre for Scientific Documentation and Research ("Centre national de

documentation et de recherche scientifique ")

CRCCA Enhancing adaptive capacity for increased resilience to climate change in the

agriculture sector in the Union of the Comoros ("Renforcement des capacités d'adaptation et de résilience du secteur agricole face au changement climatique en

Union de Comores")

CTA Chief Technical Advisor

DGEME General Directorate for Energy, Mines and Water ("Direction Générale de l'Énergie, des

Mines et de l'Eau")

DGEF General Directorate for Environment and Forests ("Direction Générale de

l'Environnement et des Forêts")

DREF Regional Directorate for Environment and Forests ("Direction Régionale de

l'Environnement et des Forêts")

FNAC Fédération nationale des agriculteurs communautaires

GDP Gross Domestic Product
GEF Global Environment Facility
GoC Government of Comoros
HDPE High Density Polyethylene

IMF International Monetary Fund (GEF)

INRAPE National Institute for Research in Agriculture, Fishery and the Environment ("Institut

National de la Recherche pour l'Agriculture, la Pêche et l'Environnement')

IWRM Integrated Water Resource Management (Acronym in French: GIRE)

LDCF Least Developed Countries Fund

M&E Monitoring and Evaluation

Ma-Mwe Autonomous Agency for Water and Energy Distribution

MAPEEIA Ministry for Agriculture, Production, Environment, Energy and Handicraft ("Ministère de

la Production, de l'Environnement, de l'Énergie, de l'Industrie et de l'Artisanat")

MDG Millennium Development Goals (UN)

NAPA National Adaptation Programme of Action

PAEPA Programme for Water Supply and Sanitation "Projet d'alimentation en eau potable et

d'assainissement" (AfDB)

PAGEC Project for support to Community Management for Water at the islands for Anjouan

and Mohéli ("Projet d'Appui à la Gestion Communautaire de l'eau sur les lles d'Anjouan

et de Mohéli")

PIR Project Implementation Report

PNDHD National Programme for Sustainable Human Development ("Programme national de

Développement Humaine Durable") (IFAD)

RESEAU Strengthening of water services in Anjouan and Mohéli (Renforcement des Services de

l'EAU sur les lles d'Anjouan et de Mohéli)

ROtl Review of Outcomes to Impact

RUTI Responsible for the Island Technical Unit ("Responsables des Unités Techniques

Insulaires") (UNDP)

SCAD Comoros Poverty Reduction and Growth Strategy ("Stratégie de croissance accélérée et

de développement durable")

SDG Sustainable Development Goals (UN)

SIDS Small Island Development State

ToC Theory of Change
ToR Terms of Reference

UCEA Union of Water Committees of Anjouan ("Union des Comités de l'Eau d'Anjouan")

UCEM Union of Water Committees of Mohéli ("Union des Comités de l'Eau de Mohéli")

UNDAF United Nations Development Assistance Framework

UNDP United Nations Development Programme

UNDP-BCPR UNDP - Bureau for Crisis Prevention and Recovery

UNEP United Nations Environment Programme

UNV UN Volunteer ("Volontaire des Nations Unies" – VNU in French)

VRA Vulnerability Reduction Assessment

WRM Water Resource Management

#### **EXECUTIVE SUMMARY**

#### A. Introduction

- 1. The Global Environmental Fund (GEF) funded project "Adapting water resource management in the Comoros to expected climate change" (ACCE)<sup>2</sup>, jointly implemented by United Nations' Development Programme (UNDP) and UN Environment (UNEP), was designed to address climate change induced challenges in the Comoros. Project implementation started in February 2011 and was originally scheduled to finish at the end of 2014, but the duration was extended until the end of 2016. The GEF funding was USD 3,740,000 (UNEP: USD 1,020,000 and UNDP: USD 2,720,000) and UNDP-TRAC provided USD 200,000. Furthermore, there has been a cofinancing of Euro 150,000 from the Flemish Government (2013-14), which was not planned originally.
- 2. This report presents a Terminal Evaluation which was conducted after the operational completion of the project. The evaluation was carried out by a single consultant. Field work was carried out in the Comoros from 20 February to 11 March 2017.
- 3. The overarching goal of the project was defined in the project document as "to reduce the risk of climate change on lives and livelihoods from impacts on water resources in the Comoros". The project's global objective was defined as to reduce the risk of climate change on lives and livelihoods from impacts on water resources in Comoros. To achieve this, the following outcomes were planned: (a) Institutions at a national (i.e. the Autonomous Agency for Water and Energy Distribution (Ma-Mwe) and the National Agency of Civil Aviation and Meteorology (ANACM)) and community (i.e. the Unions of Water Committees in Anjouan and Mohéli UCEA and UCEM) level strengthened to integrate climate change information into water resources management, (b) Water supply and water quality improved for five selected pilot communities to combat impacts of climate change<sup>3</sup>, (c) Awareness and knowledge of adaptation good practice increased for continued process of policy review and development.

#### B. Findings

- 4. Strategic Relevance. The project is aligned to the Initial National Communication (2002) and the National Adaptation Programme of Action (NAPA) (2006), which listed the water sector as being the second most vulnerable sector to climate change (after agriculture), and it is consistent with the United Nations Development Assistance Framework (UNDAF), the UN Environment medium term strategy, the UNDP Strategic Plan, the GEF Least Developed Countries Fund (LDCF) eligibility criteria and the UN Millennium Development Goals. It also takes into account human rights concerns as the pilot projects are addressing water stressed rural communities, including the construction of public stand-posts for people who cannot afford a household connection. However, several activities under Outcome 1 and 3, which were related more directly to climate change, were eliminated for various reasons, and the project has thus put less emphasis on climate change than originally planned, being redirected more towards a more traditional water supply project. The project strategic relevance is thus rated as moderately satisfactory.
- 5. Achievement of outputs. Concerning the outputs under Outcome 1 (Capacity building), the two first outputs related to the availability of climate data and the capacity to use them have been achieved. There is clearly more climate information available, it is collected and recorded and ANACM has more capacity to use the data for modelling and forecasting. The hydrological modelling was not achieved as data was deemed to be insufficient for modelling. The outputs related to improving the policy framework and developing a capacity strengthening plan within this area have been partially achieved due to another project (PAEPA)<sup>4</sup>. As the new Water Act

<sup>2</sup> Acronym derived from the French project title: "Projet d'adaptation de la gestion des ressources en eau aux changements climatiques"

<sup>3</sup> Moroni, Bandasamlini, Lingoni-Pomoni, Hoani-Mbatsé, Nieumakélé

<sup>4</sup> AfDB financed project: "Projet d'alimentation en eau potable et d'assainissement"

has not been approved, it was not deemed relevant to strengthen capacity within this area, so this output has *not been achieved*. The outputs related to Outcome 2 (putting into place five pilot water supply schemes) have been *partially achieved only*, due to budget constraints, as the costs were underestimated in the project document. The outputs related to Outcome 3 (project communication and finding and disseminating the lessons learnt), have been *partially achieved* concerning the first part (communication) and *not achieved* concerning the second part (dissemination of lessons learnt). All in all, the evaluation rating of outputs is *moderately satisfactory*.

- 6. Effectiveness Attainment of Objectives and Planned Results. Regarding the first outcome, which aimed at strengthening the capacity of the different institutions to integrate climate change information into water resources management, the attainment is mixed. On one hand, there is clear progress in ANACM (collection of data, modelling and analysis), and there is a more widespread awareness in the institutions about the need to improve the management and integration of data related to climate in general and climate change in particular. There is furthermore a nascent interest in Integrated Water Resource Management (IWRM). The more tangible effect expected regarding an improved policy framework for water resource management, which takes into account climate change, has not happened. Even so, with a proposal for a new Water Act elaborated (supported by PAEPA), there is some progress regarding the policy framework. However, there is still a long way to go.<sup>5</sup>
- 7. The planned *second outcome* was improved water supply and water quality for the five pilot communities to combat the impacts of climate change. The evaluator assessment is that: (a) The quantity of water has increased, but due to the old distribution network, this is not fully noticeable to the users, (b) The quality has probably improved at the two sites where slow filters have been installed, but water quality measurement has not been carried out, so this is not documented, (c) Access has only improved where increased water pressure has returned water to sectors connected, but where the water did no reach because of too low pressure in system. Access is still a major problem in Moroni, Hoani-Mbatsé and probably Lingoni-Pomoni.
- 8. The *third outcome* was that awareness and knowledge of adaptation good practice for continued process of policy review and development has increased. As no measurement has been made, neither for the baseline, nor for the end-of-project situation, this outcome impact is difficult to assess. With these caveats, the evaluator assessment is that there is an increasing awareness of the impact of climate change, as this was mentioned by many of the interlocutors. This is no doubt an effect of the many campaigns and projects related to climate change, including the present project. Regarding the communication part, if a distinction is made between (a) general communication products on climate change and the project, and (b) technical documents on the lessons learnt for knowledge networks, the evaluator assessment is that the general communication (a) has probably been covered quite well, but more specific technical information on lessons learnt (b) has not been covered at all.
- 9. The overall evaluation rating of the attainment of the outcomes is *moderately unsatisfactory*.
- 10. The indicator for the *project objective* was the vulnerability to climate change of the pilot project communities. The baseline study carried out Vulnerability Reduction Assessment (VRA) workshops in the villages and they were rated around 4 with an end-of-project target of 2. As the VRAs have not been repeated end-of-project it is difficult to assess this indicator. The evaluator assessment is that the vulnerability has been reduced, as water supply has increased considerably in the pilot communities thus mitigating the impact of future reductions in rainfall. However, taking into account the limitations of the water supply schemes installed, a rating of 2 appears too optimistic.
- 11. Independently of the (probable) failure to achieve the indicator target, it is considered moderately likely that the project objective and goal will be achieved, but it will take time. There are considerable barriers, but also a noticeable political will to progress and a process is in motion. There are several on-going efforts with external support to put in place Integrated

<sup>5</sup> The evaluator has been informed that after the finalisation of the evaluation, the Ministry has finalised the revision of the proposal for the Water Act and submitted it to the Parliament.

- Water Resource Management (IWRM) (among these the SIDS-IWRM project and the newly approved UN Environment GEF financed Watershed Management project).
- 12. The *sustainability* is assessed to be the main weakness of the project. The institutional strengthening of ANACM is considered sustainable, but the process to improve the policy framework will no doubt still need substantial external support to keep moving. However, the main sustainability challenges are related to the pilot projects.
- 13. As it is now, the water division of Ma-Mwe (Moroni water supply) is not sustainable, as non-accounted for water may be as high as 80% and the capacity for operation and maintenance (operation and management) is low. There is no quick fix for the lack of sustainability of Ma-Mwe. The water system was privatised a decade ago but the privatisation was not successful, and it was subsequently taken back by the Government. The bad state of the distribution network is one of the main problems, but also the lack of a proper company structure. An obvious first step is to separate the Ma-Mwe water division out as an independent company, be that public or private. But for the company to be viable, considerable investment is needed, among others for network rehabilitation (substituting the old asbestos-cement pipes with High Density Polyethylene (HDPE) pipes), increased reservoir capacity, construction of new wells and installation of meters. A completely new commercial department would have to be set up to secure metering and invoicing.
- 14. The four community water supply projects also have serious challenges regarding sustainability, and it can safely be stated that if something substantial is not done to secure operation and maintenance, they are not sustainable. There is an urgent need to put systems for operation and management and cost recovery in place. If that is not done, the water schemes will soon start to degrade, a process that is already visible. It should be added that the reforestation activities on communal lands are clearly not sustainable either, and the drip-irrigation introduced for water conservation is not working. All in all, the probability that sustainability is achieved is rated as unlikely.
- 15. As the sustainability clearly is a major challenge, it is assessed premature to consider *replication* of the pilot projects, even if it is assessed that there are some interesting experiences that might be worth replicating.
- 16. It should furthermore be mentioned that the lack of a proper Monitoring and Evaluation (M&E) system implies that hard data are difficult to get (e.g. people effectively served by the water supply schemes, production of water, service hours etc.). This includes the Moroni pilot project with Ma-Mwe.
- 17. Due to the lack of detailed financial information, it is difficult to make a well-founded assessment of the *cost-efficiency*. With this caveat in mind, it is the evaluator's impression that much has been done with relatively limited inputs, and the quality of the works is generally acceptable to good. So the rating for efficiency is *satisfactory*.
- 18. All in all, the project is rated as moderately unsatisfactory.

#### C. Lessons learnt

- 19. The participatory process to select the communities and the involvement of the communities from the very beginning of the project planning is considered to be a crucial factor that has increased the community ownership. It is a relatively simple element to include in project planning, but is often omitted for time reasons or other inconveniences. This is a positive lesson learnt, widely applicable elsewhere.
- 20. The introduction of slow filters in the community water supply schemes is an interesting innovation to improve water quality, often ignored in community projects. Potentially there is a lesson learnt which can be used for upscaling. However, for that to be the case, the experience needs first to be properly documented. In particular, it has to be documented whether the water quality has actually improved, and whether the required operation and management is suitable for community schemes.

- 21. When a water supply scheme is planned, the issue of operation and management should be included from the very project design. Failure to do so, as is the case for the present project, puts the future sustainability of the investment at risk. Furthermore, it is important that the project scope include the whole system, including the distribution network and the meters, which has not been the case for the present project. If the project does not include these elements, it is very difficult to put into place a sustainable management of the scheme. This is not a new lesson learnt, as this is well-known from many other similar projects, but it has once again been confirmed by the present project.
- 22. The water supply scheme adopted in the pilot projects are well beyond a size that can be managed informally by a Community Water Committee. The operation and management has to be formalised and paid for, independently of the organisational setup chosen (community operated or outsourced to a private operator). Again, this is not a new lesson learnt, as this is well-known from many other similar projects, but is has once again been confirmed by the present project.
- 23. The main weakness of the pilot project in Moroni is the lack of a proper, dedicated operation and maintenance structure and a system for cost recovery. This obviously puts the investment made at risk. The general lesson learnt is that support to a city water supply system should include as a clear condition that proper operation and management is put in place and that there is a system for tariff collection that permits to cover at least the operation and maintenance costs. If there is a need to subsidise the operation and maintenance costs, it has to be clearly defined how and by whom. Again, this is not a new lesson learnt, as this is well-known from many other similar projects, but is has once again been confirmed by the present project.
- 24. When planning the reforestation in the present project, proper attention was not paid to an analysis of why the land had been deforested. The consequence is that most of the reforestation made on communal land has been lost. The general lesson learnt is that a thorough analysis should be made during project planning of the factors that have lead to deforestation in the first place, and that these factors should be addressed as part of the project. If they are not, the reforestation is likely to be unsuccessful.
- 25. The present project promoting climate change adaptation has included activities in a variety of fields, covering a variety of issues that are important for climate change adaptation. However, the result has been that the investments have been spread out thinly, there has been a considerable management burden and the impacts are difficult to discern. The lesson learnt is that when planning a climate change adaptation project, it is important to avoid attempting to do everything, as the risk is that the investments are spread out too thinly, that it will be difficult to manage and that the impact in each area will be small. It is therefore important to maintain a focus for the project and only include project issues outside the focus area of the project, when these are absolutely necessary for success, and it is unlikely that they will be covered by other actors.

#### D. Recommendations

26. As it has been mentioned, the pilot projects are incomplete, particularly by not including the improvement of the distribution network and the metering. This implies that it is not possible to reap the full benefit of the investments made. The corollary is that there can be considerable benefits from a relatively limited additional investment. Furthermore, it is very difficult to put into place a sustainable management of the water supply schemes when these are not functioning properly at the outset, so this additional investment can increase the probability of success in putting into place a sustainable management of the schemes. It is therefore recommended to the Ministry of Production and its partners, particularly UNDP and UN Environment, to urgently search for additional funds to complement the investments made in the five pilot projects. It is further recommended that these additional funds be conditioned on the putting into place of a formalised management of the community pilot schemes. In the case of Moroni, the condition for the provision of additional funds should be that a process of creating an autonomous water company has at least started. Furthermore, as the arguments for and against privatisation of the water supplies in the Comoros, combined with several

unsuccessful experiences with privatisation, appear to have complicated the search for sustainable solutions for the operation and management, it is **recommended not** to link the setting up of formal structures for the management of the water supply schemes with the question of ownership, as this may derail the process. There are many successful examples of both publicly and privately owned water supply companies in other parts of Africa, so the question of ownership is not at the core of the issue.

- 27. The experience with the slow filters in the community water supply schemes should be documented so decisions can be taken on whether to replicate them in other projects. It is **recommended** to UN Environment and UNDP to make sure this happens.
- 28. The evaluator considers that setting up a policy and institutional framework for IWRM is a necessary step towards adapting the management of water resources in the Comoros to climate change. It is therefore **recommended** to the Government of Comoros, UNDP and UN Environment to include IWRM in future projects in the country. Experience from other African countries shows that this will be a long process, so it is important not to set up too ambitious short term goals. Putting into place IWRM requires a long haul.
- 29. Taking into account the various observations made in the present report, it is **recommended** that UNDP and UNEP revise the newly approved GEF projects to make sure that: (a) they have conducted proper feasibility studies, when relevant, (b) a gender analysis has been conducted and is reflected in the implementation strategy, (c) adequate formal monitoring systems are set up, and (d) when relevant, VRAs are repeated at the end of the project to document the changes that have been achieved.

#### INTRODUCTION

- The Global Environmental Fund (GEF) funded project "Adapting water resource management in the Comoros to expected climate change" (ACCE)<sup>6</sup>, jointly implemented by United Nations' Development Programme (UNDP) and UN Environment (UNEP), was designed to address climate change induced challenges in the Comoros. Project implementation started in February 2011 and was originally scheduled to finish at the end of 2014, but the duration has been extended to the end of 2016. The GEF funding was USD 3,740,000 (UNEP: USD 1,020,000 and UNDP: USD 2,720,000) and UNDP-TRAC provided USD 200,000. Furthermore, there has been a co-financing of Euro 150,000 from the Flemish Government (2013-14), which was not planned originally.
- In line with the UNEP and UNDP Evaluation Policies, the present terminal evaluation is undertaken at completion of the project to assess project performance (in terms of relevance, effectiveness and efficiency), and determine outcomes and impacts (actual and potential) stemming from the project, including their sustainability. The evaluation had two primary purposes: (i) to provide evidence of results to meet accountability requirements, and (ii) to promote operational improvement, learning and knowledge sharing through results and lessons learned among UNEP, UNDP and the GEF. Therefore, the evaluation has identified lessons of operational relevance for future project formulation and implementation.

#### 2. EVALUATION METHODS

- 32. According to the evaluation Terms of Reference (ToR), the evaluation should focus on four key questions, based on the project's intended outcomes:
  - a) Has climate change information been integrated into the water resources management systems of Comoros as a result of the project? Was the project effective in enhancing institutional capacity at the national and community level to facilitate the process?
  - b) To what extent has water supply and water quality improved in the pilot communities as a result of the project? To what extent has this helped the communities to adapt to the adverse effects of climate change? Is there evidence of the approach being replicated elsewhere in the Comoros?
  - c) Has the awareness and knowledge of adaptation good practices increased as a result of the project? Has the increased awareness and knowledge resulted in review and development of adaptation policies?
  - d) Overall, has the project contributed towards reducing negative impacts of climate change on water resources in Comoros? Was the project successful in setting in motion a process that will ultimately contribute towards reduced risks of climate change induced problems on the lives and livelihoods of people in terms of water resources?

These questions have guided the evaluation.

- The evaluation comprised three main phases: 1) inception and document review, as documented in the inception report, 2) field mission to Comoros including stakeholder interviews and project site visits, and 3) analysis and reporting. The evaluation was carried out by a single consultant.
- During the inception and document review phase the evaluator had only access to part of the project documentation (project document, progress reports from UN Environment and UNDP, and some of the studies carried out, e.g. the baseline study). The evaluator consulted further more general documentation on the Comoros, the expected impact from future climate change, the documentation from related projects and the strategy documents from GEF, UNDP and UN

<sup>6</sup> Acronym derived from the French project title: "Projet d'adaptation de la gestion des ressources en eau aux changements climatiques"

- Environment.<sup>7</sup> These documents were reviewed, a revised Theory of Change (ToC) was proposed, the main evaluation questions were defined and a detailed programme for the field visit was proposed. The draft inception report was discussed with the UN Environment Evaluation Office over Skype and meetings were held with the UN Environment task manager in Copenhagen and the UNEP Evaluation Office in Nairobi.
- 35. The second phase was the field work, which was carried out in the Comoros from 20 February to 11 March 2017. During the field work in Comoros, the main activities were (i) interviews with former key project staff from UNDP/UNEP (principally the former project manager, the UN Volunteer Engineer who formerly worked at the project, the UNDP project responsible and the technical officer (RUTI) responsible at Mohéli), (ii) the key Ministries and institutions involved at central (Union) level (including the Meteorological Services (ANACM) and the Water and Electricity Company (Ma-Mwe)), and (iii) field visits to the pilot projects (5 in all). As planned, the main thrust was put on the field visits, as the pilot projects in budgetary terms constituted the main component. During the field visits, all the constructed or rehabilitated infrastructures were visited and key stakeholders interviewed. It turned out not to be possible to carry out the planned Focus Group meetings as these had not been convened by the UNDP Country Office. Instead, community leaders and water committee members and some randomly chosen beneficiaries were interviewed to the greatest extent possible.
- 36. A final workshop was carried out, organised by UNDP, where the main findings were presented. However, the participation in the workshop was very limited (UNDP, ANACM and Ma-Mwe). The feed-back was therefore also limited.
- 37. It is a general limitation for terminal evaluations that the key project team is not in place any more, and that focus generally has shifted towards presently on-going activities. Apart from this general limitation, there were several inconveniences that complicated the field visits to Anjouan and Mohéli. As the Government of Comoros (GoC) had cancelled the operating license for one of the two inter-island airlines, it turned out to be impossible to carry out the planned programme, so eventually the evaluation programme had to be adjusted to the availability of flights. The flight schedules were irregular and this was further complicated by the nearby cyclone in Madagascar (Enowa), which lead to several cancellations. As a consequence, quite a lot of time was lost waiting at the airports at Anjouan and Mohéli and the final workshop had to be postponed to Saturday 11 March. The visit to Anjouan was not prepared as expected as the local UNDP officer was occupied with other tasks, so when the evaluator arrived the programme was improvised, and was only possible due to support from the General Secretary of the Commissariat for Production (this support is sincerely acknowledged). However, as the evaluator was not accompanied by persons knowing the details of the project, and as the visits were not announced on beforehand, and hence it was not possible to interview members of the Water Management Committees at one of the pilot sites (Pomoni-Lingoni), the field visit was less productive than expected. At Mohéli on the contrary, the visit was very well prepared and the evaluator succeeded in interviewing all the relevant stakeholders.
- 38. It should be mentioned that project evaluations always face the question of attribution, particularly at outcome and objective level. For the outcomes and objectives, the evaluation has to assess as a first step the present situation and the probability of the outcomes and objectives being attained in the future, independently of the attribution of the project evaluated. Outcomes and objectives may be attained or not attained for many reasons beyond the project. What finally has to be evaluated is whether the project has contributed to this, and of course whether the contribution is substantial or marginal. Therefore, even if the evaluation is that a given outcome has a reasonable chance of being attained in the future, this does not necessarily mean that the project is successful, as it may have failed, but other stakeholders may be responsible for it being achieved anyway and vice versa. There is often a desire by project funders to be able to define exactly their own share of a given achievement, however,

<sup>7</sup> See Annex D for a list of references.

<sup>8</sup> See Annex C for the itinerary and the people met.

<sup>9</sup> See Annex H for the presentation made at the workshop.

- particularly when projects are small and there are many actors intervening, this will more often than not be a futile exercise.
- 39. It should furthermore be mentioned that the lack of a proper Monitoring and Evaluation (M&E) system implies that hard data are difficult to get at (e.g. people effectively served by the water supply schemes, production of water, service hours etc.). This includes the Moroni pilot project with Ma-Mwe. It should also be mentioned that it has not been possible for the evaluator to compare the original budget with the actual expenditures for each activity as the information was not available.

#### 3. THE PROJECT

#### 3.1 Context

- Comoros is a Small Island Developing State predicted to be adversely affected by climate change (climate change) and climate variability. The climate of Comoros is strongly influenced by large ocean-atmosphere interactions, such as trade winds, El Niño and monsoons. However, the negative effects of climate change might result in changes in rainfall levels and patterns, increased temperatures, sea level rise with subsequent salinization and increased frequency of climatic hazards. These effects will reduce the availability of water in general and negatively affect the quality of water through dilution of contaminants, such as pollutants, salts and sediment. Therefore, climate change is likely to have negative impact on water supply and water quality in Comoros. These adverse effects are superimposed on existing human practices such as high rates of deforestation, as well as inadequate water resources management including inadequate water supply infrastructure, insufficient water treatment and water quality monitoring. Combined, these factors threaten water and food security, economic growth and ultimately people's livelihoods. The risks related to water security are well acknowledged in Comoros; they have been identified by the Comoros Poverty Reduction and Growth Strategy (SCAD II) as among the most critical problems facing the Comoros, and the NAPA (2006) process listed water sector as being the second most vulnerable sector to climate change (next to agriculture).
- 41. No significant changes in the political context have occurred since the project was formulated. The Comoros has been through long periods of political instability since independence in 1975, but there has been relative stability since 2009<sup>10</sup>, the elections in mid-2016 took place in relative calm and the power was handed over to the new President without major upheavals.
- 42. According to the World Bank, the economic situation has deteriorated the last couple of years as growth has slowed and the economy remains undiversified (with a heavy dependence on family remittances from abroad and on production and export of vanilla, ginger and ylongylong). While the economy had showed signs of recovery achieving an eight-year high in terms of economic growth at 3.5% in 2013, conditions since then have deteriorated with growth slowing from 2.1% in 2014 to 1% in 2015 and 2016 (against a population growth of around 2.4%). Severe shortages in electricity supply have presented a drag on all sectors of the economy. Slowing growth has been accompanied by a rapid depreciation of the Comorian franc by approximately 24% since June 2014, placing a strain on the import capacity of this highly import-dependent economy, and increasing pressure on domestic prices. For these reasons, the fiscal situation is very fragile and the country is thus very dependent on access to foreign aid.
- 43. Of relevance for the present project is that UNDP is implementing another project with GEF funding (USD 8,990,890) called "Enhancing Adaptive Capacity and Resilience to Climate

<sup>10</sup> According to the 2009 revised constitution, the Comoros is now a Union (Federation) of three Autonomous Islands: Ngazidja (Grande Comore), Nzwani (Anjouan) and Mwali (Mohéli), each with their own autonomous government.

Change in the Agriculture Sector in Comoros", abbreviated to CRCCA<sup>11</sup>. This project has been implemented in close coordination with the present project and has complemented activities for which funding was insufficient. Other important complementary projects are the AfDB PAEPA<sup>12</sup> project and the EU-AFD Water and Sanitation project for Domoni<sup>13</sup>. An on-going regional Small Island Development State (SIDS) pilot project promoting IWRM (GIRE in French) is also relevant, particularly as it is expected to be scaled up in the future.

44. Of relevance for the continuation of some of the initiatives financed by the project, it should be mentioned that UNEP has received GEF approval for funding (USD 5,140,000) for a project called: "Building Climate Resilience through Rehabilitated Watersheds, Forests and Adaptive Livelihoods", and UNDP has received GEF approval for funding (USD 8,932,421) for a project called: "Comoros: Strengthening Comoros Resilience Against Climate Change and Variability Related Disaster". <sup>14</sup> Furthermore, UNDP is preparing a project for the Green Climate Fund, which (if approved) will make it possible to complement crucial missing elements of the pilot projects (see further below).

#### 3.2 Objectives and components

- 45. The overarching goal of the project was defined in the project document as "to adapt water resource management to climate change in the Comoros". The project's global objective was defined in the project document as to: "reduce the risk of climate change on lives and livelihoods from impacts on water resources in Comoros". To achieve this, the following outcomes were planned:
  - a) Institutions at a national (i.e. Ma-Mwe and ANACM) and community (i.e. the Unions of Water Committees at Anjouan and Mohéli UCEA and UCEM) level strengthened to integrate climate change information into water resources management.
  - b) Water supply and water quality improved for selected pilot communities to combat impacts of climate change.
  - c) Awareness and knowledge of adaptation good practice increased for continued process of policy review and development.
- 46. The project logic was therefore that by increasing the availability of information regarding the effects of climate change, enhancing the capacity to use this information and the revision of the policy framework for specifically the water sector, the Government of Comoros would have increased its capacity to take the necessary measures to adapt to climate change. The interventions implemented at the pilot sites would, according to the project document, "test the extent to which: i) delivery to safe water for household use; ii) access to water for irrigation purposes; iii) income streams; and iv) livelihoods can be protected and improved under changing climatic conditions, and based on this a plan for upscaling was to be elaborated. Finally, support for learning and dissemination of the experiences should facilitate the further process of adapting to climate change."
- 47. The main planned outputs and activities are indicated in the table below:

Table 1. Planned outputs and activities

Outcome	Outputs	Main activities
Outcome 1. Institutions at a	Output 1.1. Information on climate change risks to water availability in Comoros improved.	Asses capacity of ANACM

<sup>11</sup> Enhancing adaptive capacity for increased reliance to climate change in the agriculture sector in the Union of the Comoros

<sup>12 &</sup>quot;Programme d'Alimentation en Eau Potable et d'Assainissement"

<sup>13 &</sup>quot;Approvisionnement en eau potable de l'agglomération de Domoni et ses alentours"

<sup>14</sup> https://www.thegef.org/projects?f[]=field\_country:44

Outcome	Outputs	Main activities	
national (i.e. Ma-Mwe and ANACM) and community (i.e. UCEA and UCEM) level strengthened to integrate	Output 1.2. Capacity to assess and monitor changes in water supply and quality (given climate change projections) developed.	Provide adequate equipment  Develop systems for collecting data  Support for analysing of data and	
	Output 1.3. Preparation and provision of improved climate information for water resource management policies and spending plans.	modelling Training of staff from, among others, ANACM, Ma-Mwe, UCEM and UCEA	
climate change information into water resource	Output 1.4. Integration of improved climate information with water resource management policies and spending plans, and other relevant policies.	Revise and analyse policy documents (including the Water Act) Develop proposals	
management.	Output 1.5. Capacity development plan for policy review and design among decision-makers developed based on best known scientific and technical evidence-base.	Establish a cross-ministerial body for coordination of climate change adaptation  Develop capacity for policy development	
	Output 1.6. Capacity development plan for policy review and design among decision-makers implemented.		
Outcome 2: Water supply and water quality for selected pilot communities to combat impacts of climate change improved.	Output 2.1. Technologies to improve water access and quality that mitigate climate change risks piloted, e.g. soil conservation measures, water harvesting, remedial work on existing boreholes.	Rehabilitation of water schemes at five pilot project sites  Training of water management committees in operation and management  Awareness raising in communities  Training of farmers in sustainable agriculture  Reforestation  Train Ma-Mwe staff in operation and management and cost recovery  Develop a replication plan	
	Output 2.2. Community members trained to manage adaptive water interventions sustainably.		
Outcome 3: Awareness and knowledge of adaptation good practice for continued process of policy review and	Output 3.1. Knowledge products developed on lessons learned for policy makers, communities and donors throughout the project.	Compile the results and lessons learned under Outcome 1 and 2 Develop awareness and training materials	
	Output 3.2. Learning disseminated through platform for national learning and sustainability.	Establish parliamentarian working groups and brief them	
	Output 3.3 Disseminate Comorian experience in knowledge networks related to water and climate	One national and three island-level workshops for dissemination	
	change, including ALM, GAN and IW Learn.	Community workshops to disseminate lessons learnt	
development increased.		Newsletters, newspaper articles, booklets and pamphlets	
		Collate and submit all technical documents and establish project website	

## 3.3 Target areas/groups

48. The project has the following principal target stakeholders:

- a) At central (Union) level: The General Directorate of Water and Forests (DGEF) (where the Project Unit is located), The General Directorate of Energy and Water (DGEME) (both originally under the same Ministry, MAPEIAA, but since mid 2016 under two different ministries), and the meteorological services (ANACM). Originally also the parliamentary politicians would be targeted, but these activities were transferred to another project (PAEPA).
- b) At Island Level: The Water and Electricity Company (Ma-Mwqe) at Grande Comore, the Union of Water Committees at Anjouan (UCEA) and Mohéli (UCEM), and the Island Directorates for the Environment at Anjouan and Mohéli.
- c) At community level: the Village Water Committees and Inter-village Water Committees and the Municipalities.
- 49. Important stakeholders are also several similar projects, among these the UNDP CRCCA<sup>15</sup> project, the AfDB PAEPA<sup>16</sup> project, the EU-AFD Water and Sanitation project for Domoni<sup>17</sup>, the IFAD project PNDHD<sup>18</sup> and others. There is a table with a stakeholder analysis in Annex J.
- 50. Some additional stakeholders were mentioned in the project document. The *University of Comoros* has been participating in the Project Board, but has not been actively involved. It is not clear for the evaluator what the involvement has been of the *Farmers Union* (FNAC), the *National Institute for Research in Agriculture, Fishery and the Environment* (INRAPE), or the *National Center for Scientific Documentation and Research* (CNRDS), also mentioned in the project document, as the meetings set up with these did not materialise. It is understood that their involvement has been very limited. Taking into account the focus of the project on climate change adaptation in the water sector, with a heavy emphasis on water for human consumption, it is considered that the stakeholder involvement has been satisfactory.
- 51. Regarding the coordination, the main water sector institutions were represented on the Project Board (see below). There have been quite extensive consultations with the stakeholders during project preparation and the minutes from the different events were included as an annex to the project document. Regarding the broader sector coordination, there is as part of the monitoring framework for the Poverty Reduction Strategy (SCAD) a Water and Sanitation Sector Working Group, chaired by the General Planning Commissariat, which is in charge of the coordination between the GoC and the donors, presently with AFD as lead donor.

#### 3.4 Implementation arrangements

- 52. The Project Board (Steering Committee "Comité de Pilotage") included as mentioned a broader range of stakeholders, including stakeholders not directly targeted by the project activities such as the University of Comoros. The Chief Technical Adviser (CTA) and technical project staff have also participated in the project board meetings, and in some of these there has also been representatives from other similar projects (as CRCCA and PNDHD). There has been representation from the implementing agencies as well: UNEP participated directly in one and UNDP in all other steering committee meetings (representing both agencies in those cases) and in some meetings there was also representation from the UNDP regional office.
- 53. The project board has met a little less than once a year, in all 4 times over five years. First meeting was in February 2012, the second in September 2012, the third in April 2013 and the fourth (and last) was in December 2015. At the project board meetings reports on project progress were presented, the annual work plans for 2012, 2013 and 2016 were presented and general issues of concern were discussed. The role of the project board has been more ceremonial than envisaged in the project document, where 2 meetings per year were stipulated.

<sup>15</sup> Enhancing adaptive capacity for increased reliance to climate change in the agriculture sector in the Union of the Comoros

<sup>16 &</sup>quot;Programme d'Alimentation en Eau Potable et d'Assainissement"

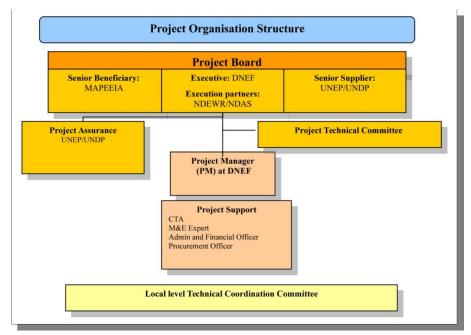
<sup>17 &</sup>quot;Approvisionnement en eau potable de l'agglomération de Domoni et ses alentours"

<sup>18 &</sup>quot;National Programme for Sustainable Human Development"

The work plans and budgets for 2014 and 2015 seem not to have been approved by the project board. It is understood that the technical committees at national and island level have never been functional. In the documentation received by the evaluator there are no minutes from these meetings.

54. The project implementation set-up is shown in the below figure (taken from the project document):

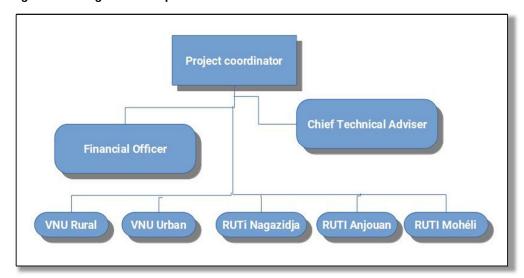




The day-to-day operations were handled by a Project Coordinator located at DGEF and supported by an accountant and some support staff. The technical part was supported by the CTA, UN Volunteers (called VNU after their French acronym) and short term consultants. At each island, there was a responsible technician (called RUTI), financed and shared by the present (and other) UNDP-UNEP projects 19. It is evident that even if the project has been carried out under the National Execution modality, the UNDP country office has had a pro-active role in project implementation.

According to the project team, this arrangement was not included in the original project design but was included in the first budget revision before the ground activities commenced and costs were shared between UNEP and UNDP. By 2015, contracts were taken over by a new UNDP project for similar functions, whilst still partly supporting this project.

Figure 2. Management setup



- 56. Project supervision has been divided between UNEP and UNDP, according to the division of the outputs between UNEP and UNDP across the outcomes. The UNEP supervision was handled by a Task Manager located at the UNEP-DTU Centre in Copenhagen, and the UNDP supervision was carried out by the local UNDP office at Moroni with backstopping from the UNDP Regional Office at Addis Ababa. This division of the supervision has of course not made is easier for UNDP and UNEP, as each of them have struggled to keep themselves updated on the progress on the outputs, which were the responsibility of the other part.
- 57. It was stated in the project document that "M&E will be undertaken by the Project Support Staff and the UNDP Country Office with support from UNDP/UNEP. UNDP will be the lead on all M&E with input provided by UNEP to ensure that there is one harmonized M&E report." The Mid Term Review pointed out that the M&E needed to be strengthened, but this has not happened. There was a budget for M&E (Annex 7 to the project document), which also included funding for the Mid Term Review and the Final Evaluation. An M&E Expert was planned as part of the technical team, but it is understood that this post was eliminated after the first M&E expert resigned shortly after the position was filled.

#### 3.5 Changes in design during implementation

- 58. The basic design of the project with three outcomes has not been changed. However, it turned out after making the feasibility studies for the Pilot Projects under Outcome 2 (UNDP part) that the cost of these had been severely underestimated during project design. At the same time, several activities planned under Outcome 1 (UNEP part) were not feasible. Among these was the hydrological modelling, as there was not sufficient data for this, the need for weather stations was reduced and the planned hydrological measuring equipment was not acquired. As a consequence, a budget revision was carried out in 2013, where several activities planned under the UNEP part for Outcome 1 were scaled down or eliminated, and UNEP took on some of the soft costs of Outcome 2 (among others the payment for international consultants and co-financing of the RUTIs), which made it possible to allocate more UNDP funding for the Pilot Projects (Outcome 2). At the same time the project period was extended with one year to end 2015 within the existing budget ("no-cost" extension).
- 59. Even with this reallocation, the funding was still insufficient for the five pilot projects. It was then discussed whether one or two pilot projects should be eliminated, or whether all five projects should be maintained, but scaled down. As the communities had been part of the participative planning process, it was not considered a good idea to completely eliminate a pilot project, so the second option was chosen. However, this decision has had consequences for

- the effectiveness and sustainability of the projects, as it will be discussed below, as the projects generally are incomplete.
- 60. After the Mid Term Review a new revision was made, where some activities under Outcome 1 were changed (and some eventually for different reasons not carried out). At the moment of the Mid Term Review, it looked as if the project could still be finalised within the existing time-frame, which turned out to be too optimistic. The project was thus in practice extended to end 2016 based on a 'closing plan' agreed between UNEP, the CTA and the project team in early 2016. It was mainly the Pilot Projects that were implemented in 2015-2016 as most of the other activities had been finalized (or decisions had been taken not to carry them out). However, no reporting exists on the implementation of the 'closing plan' and it appears that most elements were never completed.
- 61. One of the five pilot projects was changed, so instead of the Djandro Plateau (Mohéli), the nearby communities of Hoani and Mbatsé were included (2 communities instead of 5). This could be done without creating major problems as the Djandro Plateau was taken over by a project financed by AFD.

#### 3.6 Project financing

62. The evaluator has received summary information on the budgets and actual expenditures from the UNDP country office in Moroni. Below is a summary table – there are more details in Annex H. Detailed information that would permit to compare the budget with the actual expenditure for each planned activity was not made available.<sup>20</sup>

Table 2. Original budget and actual expenditure

Outcome / Component	Original budget	Actual expenditure
Outcome 1: Institutions at a national (i.e. Ma-Mwe and ANACM) and community (i.e. UCEA and UCEM) level strengthened to integrate climate change information into water resources management.	1,018,000	847,164
Outcome 2: Water supply and water quality for selected pilot communities to combat impacts of climate change improved.	2,144,000	2,869,068
Outcome 3: Awareness and knowledge of adaptation good practice for continued process of policy review and development increased.	178,000	276,633
Project Management	500,000	346,340
Monitoring and Evaluation	100,000	66,481
Outcome / Component	3,940,999	4.405.685

63. The project document expected co-financing from several sources, basically other similar projects and contributions from partner institutions. This co-financing only means that the projects are expected to contribute to the same objectives and outcomes, not that ACCE would receive funding from these, expect for the UNDP-TRAC funds.

Table 3. Co-financing

Name of Co-financier (source)	Туре	BUDGET (USD)
UNDP-TRAC	Grant	200,000
BAD	Parallel	6,398,106
AFD	Parallel	1,020,000

<sup>20</sup> The evaluator has asked UNDP Comoros for this information, but what is presented here is what has been made available.

Name of Co-financier (source)	Туре	BUDGET (USD)
ANACM	Parallel	23,515
Ma-Mwe	Parallel	568,147
UNDP-BCPR	Parallel	918,550
UNDP	In-kind	148,000
Comoros Government	In-kind	40,000
Total co-financing:		9,316,318

64. According to the UNDP Country Office, these projects have been carried out as expected. The UNDP-TRAC funding has materialised, and the same has the ANACM and Ma-Mwe contributions.<sup>21</sup>

#### 3.7 Project partners

- 65. As mentioned above, the project has been implemented under the national execution modality. The main partner and organisation responsible for the project implementation was the Ministry of Agriculture, Production, Environment, Energy, Industry and Handicraft (MAPEEIA).<sup>22</sup> There were some initial discussions on whether the project should be placed under the DGEME or the DGEF. The project management unit ended up being located at the DGEF.<sup>23</sup>
- 66. The main partners being involved in the implementation were, apart from DGEF (WRM) and DGEME (Water Sector Policy), ANACM (climate data collection, analysis and modelling), Ma-Mwe (Moroni Pilot Project), UCEM and UCEA (support to the setting up of Water Management Committees at the four community pilot schemes). At community level the partners have been the Water Management Committees and to some extent the municipalities. Neither the Regional Directorates for the Environment (decentralised authority at Island level), nor the Commissariats for Production (deconcentrated authorities at Island level) have been directly involved in the implementation, as this has been managed directly by the Project Coordinator at DGEF (DGEF was contract holder for the construction of the pilot projects). These main partners have at the same time received technical assistance and training, strengthening their capacity. There is a more detailed stakeholder analysis in Annex J.

#### 3.8 Reconstructed Theory of Change of the project

- 67. The project document did not make use of Theory of Change but it had a table with the outcomes and indicators. The outputs and activities were detailed in the text. The underlying logic was coherent: The project was intervening at three levels:
  - a) Strengthening the relevant sector institutions so they would have better data relevant for climate change available and would be able to interpret them and use them for disaster prevention, for planning for climate change adaptation and for sector policy formulation,
  - b) Piloting water supply schemes at community level that are more resistant to climate change (droughts, extreme weather events, saltwater intrusion) and protect the water sources (reforestation and more sustainable agricultural practices).

<sup>21</sup> The evaluator asked the UNDP office for documentation from these projects but was told that they don't have these documents, which sounds plausible.

<sup>22 &</sup>quot;Ministère de la Production, de l'Environnement, de l'Énergie, de l'Industrie et de l'Artisanat"

<sup>23</sup> After the election of a new Government in mid 2016 the Ministry has been split up, but during the project it was one single Ministry.

- c) Information and lessons learnt, particularly from the pilot projects, on adaptation and how to remove barriers to adaptation should be collected and disseminated.
- 68. The logic was then that based on these three outcomes, contributions would have been made to the objective: "to reduce the risk of climate change on lives and livelihoods from impacts on water resources in the Comoros". One of the pathways described is that the GoC decides to upscale the experiences from the project.
- 69. However, how to come from the outcomes to the goal is not clear. Below is a reconstructed ToC based on the project document logical framework, where intermediate states have been included<sup>24</sup>. At Union level, it is supposed that the strengthening of the institutions related to climate change monitoring and data processing, will lead to the following *intermediate states*:
  - a) The institutions, among these ANACM and Ma-Mwe, have put in place a self-sustaining system with the capacity to predict the future impact of climate change on water resources,
  - b) A satisfactory policy framework for Integrated Water Resource Management (IWRM) is put in place, and
  - c) The improved policy framework for IWRM is implemented and enforced
- 70. Experience from other countries shows that it is a long process to put into place a political and institutional framework for IWRM, and when that has been done, to actually succeed in the implementation and the enforcement. Among the barriers are normally:
  - a) Resistance to IWRM measures from vested interests.
  - b) Lack of understanding in the communities of the need for IWRM measures to secure the water resources for the common good. This is a barrier that the project has possibilities to influence (hence a driver).
  - c) Difficulties in the enforcement because of lack of political backing when negotiation and consensus seeking turns out to be insufficient to solve conflicts over the water resources. This is often when political will to implement IWRM falters (hence an assumption).
- 71. Regarding the pilot activities at community level, the envisaged intermediate stage is: Best practices from the pilot projects and other experiences are integrated into the GoC's developments plan for the water sector and used for scaling up.
- 72. A driver for this to happen is that a solution is found for sustainable operation and maintenance, which makes them candidates for replication (together with other experiences with community water schemes), and an assumption is that the GoC is able to find the resources internally and/or externally for this upscaling.

<sup>24</sup> There is as mentioned no ToC in the project document. The intermediate stages are proposed by the evaluator based on an interpretation of the inherent logic in the project document. The revised ToC has been presented at the final workshop but no comments were received.

Figure 3. Reconstructed Theory of Change

**Outcomes** 

**Intermediate states** 

**Impact** 

**Outputs** 

1.1. Information on climate change risks Assumption: to water availability in Comoros ommitment of the stakeholders improved A satisfactory Assumption: There is a policy framework for political interst and will 1.2. Capacity to assess and monitor to implement and changes in water supply and quality IWRM is put in enforce IWRM (given climate change projections) place developed **Driver**: Communities 1.3. Preparation and provision of understand and support Ma-Mwe, 1. Institutions at a the IWRM measures improved climate information for water ANACM have national (i.e. Maresource management policies and put in place a Mwe and ANACM) spending plans. system to and community (i.e. The improved predict the UCEA and UCEM) 1.4. Integration of improved climate policy future impact of level strengthened to information with water resource framework for integrate climate climate change management policies and spending plans IWRM is change information on water and other relevant policies implemented resources into water resource and enforced management 1.5 Capacity development plan for policy review and design among decision-Driver: A solution is makers developed based on best known found for sustainable scientific and technical evidence-base O&M which makes the Best practices pilots relplicable from pilots and 1.6 Capacity development plan for policy other Driver: The review and design among decisionexperiences are institutions involved The risk of makers implemented. integrated in have a sense of GoC national climate ownership change on development 2.1. Technologies to improve water lives and plans for scaling access and quality that mitigate climate livelihoods 2. Water supply and change risks piloted, e.g. soil water quality for from conservation measures, water harvesting impacts on selection pilot Assumption: remedial work on existing boreholes. water communities to Funding (external resources in combat impacts of and internal) is the Comoros climate change 2.2. Community members trained to made available is reduced improved. manage adaptive water interventions for scaling up. Assumption: The GoC sustainably. gives priority to improving water 3.1. Knowledge products developed on resource management lessons learned for policy makers, communities and donors throughout the 3. Awareness and project. knowledge of adaptation good 3.2 Learning disseminated through practice for continued platform for national learning and process of policy sustainability. review and development 3.3 Disseminate Comorian experience in increased. knowledge networks related to water and climate change, including ALM, GAN and IW Learn.

Note: The yellow boxes indicate the outputs as stated in the project document, while the blue boxes indicate the outcomes as stated in the project document. The grey boxes indicate the proposed intermediate states, the olive boxes indicate the proposed drivers and the orange boxes the proposed assumptions, as identified in the reconstructed ToC.

73. This reconstructed TOC was presented to the stakeholders that participated in the debriefing, but there were no detailed comments to it.

#### 4. EVALUATION FINDINGS

#### 4.1 Strategic relevance

- 74. The Project is contributing to the 2008-2012 United Nations Development Assistance Framework (UNDAF), Outcome 4: "By 2012, the integrity of the ecosystems is preserved and the eco-services they provide are for the benefit of the population, and the vulnerability to natural and climatic hazards is significantly reduced" The project is also aligned to the UN Environment Medium-term Strategy 2010–2013 (even if it is not mentioned in the project document), where Climate Change is one of the six cross-cutting thematic priorities and to the UNDP 2008-2011 Strategic Plan, which has environment and sustainable development, including adaptation to climate change, as one of its strategic pillars It is also aligned to the Initial National Communication (2002) and the National Adaptation Programme of Action (NAPA) (2006), which listed the water sector as being the second most vulnerable sector to climate change (after agriculture).
- 75. The project conforms in principle to the GEF Least Developed Countries Fund (LDCF) eligibility criteria, namely: i) undertaking a country driven and participatory approach; ii) implementing the NAPA priorities; iii) supporting a "learning-by-doing" approach; iv) undertaking a multi-disciplinary approach; v) promoting gender equality; and vi) undertaking a complementary approach. It also takes into account the human rights as the pilot projects are addressing water stressed rural communities and the construction of public stand-posts, which gives access to water for the people who cannot afford a household connection. The weakest point here is the promotion of gender equality, an issue which is not explicitly addressed, despite that it is well known that gender issues are very important in water projects at community level. It is stated in the project document that the project has been designed to meet overall GEF requirements in terms of implementation and design, e.g. sustainability, replicability, M&E and stakeholder involvement. As it will be discussed below, this is the case for stakeholder involvement, but regarding sustainability, replicability and M&E, this may have been the intention, but is has not been fully achieved.
- 76. The project document is from before the Sustainable Development Goals (SDG), so reference is made to the Millennium Development Goals (MDG). The project document states that the resultant improved access to drinking water will be a key element for the improvement of the nutritional status of the Comorian community, therefore attaining better health outcomes and positively affecting MDGs 4 and 6 and 7. It is considered that this is a too broad statement and that the most clear contribution of the project is to Target 7C of MDG 7 ("halve by 2015, the proportion of the population without sustainable access to safe drinking water and basic sanitation") and Target 7A ("To integrate the principles of sustainable development into every nation's policies and programmes, and also reverse the depletion of environmental resources").

<sup>25</sup> Système des Nations Unies en Union des Comores : "Plan cadre des Nations Unies pour l'aide au développement (UNDAF) (2008-2012)". Page 38.

<sup>26</sup> In the UNDAF 2015-2019, the project contributes to Outcome 2: "Strengthening of the access to basic social services and of household resilience", under which water and sanitation is a component.

<sup>27</sup> In particular the expected accomplishment (a) (That adaptation planning, financing and cost-effective preventative actions are increasingly incorporated into national development processes that are supported by scientific information, integrated climate impact assessments and local climate data); and (e) "That country policymakers and negotiators, civil society and the private sector have access to relevant climate change science and information for decision-making."

<sup>28 &</sup>quot;The strategy of UNDP focuses on supporting countries in (a) assessing vulnerability in key sectors; (b) integrating climate change risk considerations into national development plans and policies; and (c) gaining access to new funding sources to support innovative adaptation initiatives" (UNDP: "Strategic plan, 2008-2011", 2008).

- 77. With the emphasis in the project on capacity building, the project is also aligned to the Bali Strategy<sup>29</sup>. However, it should be noted that eventually not all the planned capacity building activities were carried out (which is considered justified see below).
- 78. *In conclusion*, the project is well aligned, both to the UN and to the national priorities. However, as mentioned above, several activities under Outcome 1 and 3, related more directly to climate change, were eliminated for various reasons, and the project has thus put less emphasis on climate change than originally planned, being redirected more towards a more traditional water supply project. The project strategic relevance is thus rated as *Moderately Satisfactory*.

#### 4.2 Achievement of outputs

#### 4.2.1 The activities carried out

- 79. To secure the planned 11 outputs (6 outputs for Outcome 1 and 3 outputs for each of Outcome 2 and 3), 52 activities were planned (20 for each of Outcome 1 and 2, and 12 for Outcome 3). Not all activities were eventually carried out, either because they were being done by another project, or they were considered infeasible, or because they were considered to be less relevant due to the circumstances and in some cases because of budget constraints. In Annex E there is comparison of planned activities and activities eventually carried out. There is of course a direct relationship between the realization of activities and the outputs if some of the activities are not carried out, the outputs cannot be expected to be fully achieved (unless they have been carried out, but just with financing from other sources).
- 80. The activities fall principally in two main groups: (i) strengthening of national institutions in the area of Water Resource Management (WRM) and climate change, and (ii) the five pilot projects aimed at putting into place sustainable and climate change resistant Water Supply Schemes and improving water and soil conservation. The third group of activities is derived from the two first (collecting and disseminating information on the project and climate change, and supporting advocacy in the area of WRM and climate change).
- 81. In general terms, there were most changes in the planned activities for the first outcome (outputs 1.1 to 1.6), while several activities for the third Outcome (outputs 3.1 to 3.3) were not carried out. For Outcome 2 (outputs 2.1 to 2.3), activities were carried out on all five planned project sites, but the scope was reduced due to budget constraints. All these changes of course affected the achievement of the outputs.

#### 4.2.2 Achievement of outputs related to Outcome 1

- 82. Output 1.1. "Information on climate change risks to water availability in Comoros improved", and Output 1.2 "Capacity to assess and monitor changes in water supply and quality (given climate change projections) developed"
- 83. The main partner institution for these two outputs is the National Agency for Civil Aviation and Meteorology, ANACM. The project has financed the installation of 5 small automatic meteorological stations (2 in Anjouan, 2 in Grande Comore and 1 in Mohéli). All five stations are operational (since 2012) and according to ANACM they have had few problems during operation and they have never lost data. They are connected to ANACM by mobile phone. Two

<sup>29</sup> Governing Council of the United Nations Environment Programme: "Bali Strategic Plan for Technology Support and Capacity-building", 2005

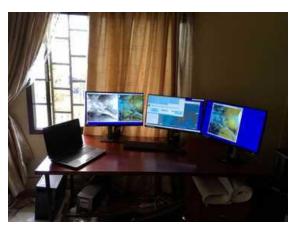
<sup>30</sup> It should be mentioned that it has not been easy to establish exactly which activities have actually been carried out — completely or partially — due to various factors: (I) the reporting is not very precise, (ii) it has not been possible to get detailed financial information related to each activity, and (iii) the Project Unit was not in place any more at the time of the evaluation. The table in Annex E therefore constitutes the evaluator's best understanding of what has been done — and not done.

- staff members have been trained by the provider at their factory in France. The data collected is used in the climate models for forecasting. They have technical support from ASECNA. 31
- 84. Before the installation of these 5 stations, the only meteorological data available was from 2 airports and the forecasting was made by international agencies (the evaluator saw 4 of the 5 stations during the field visits). ANACM has since received 4 more weather stations financed by the CRCCA project.



The weather station at Bandasamlini

85. The data and the climate modelling have permitted ANACM to produce its own weather forecasts, which are recorded for Television at the studio installed at ANACM.



Climate modelling workstation at ANACM (not financed by the project)



Studio for recording weather forecasts, ANACM

- 86. ANACM staff has together with staff from other institutions received training in climate modelling (15 persons for 1 week). One staff from ANACM has been trainee in Niger for two months in the use of the modelling software and one staff from ANACM has been on a one week training in France.
- 87. The ex-project-coordinator has provided the following information on the training carried out:

<sup>31 &</sup>quot;Agence pour la Sécurité de la Navigation Aérienne en Afrique et à Madagascar"

Table 5. Training workshops Outcome 1

Training workshops	Participants
Training of staff from Ma-Mwe, UCEA, UCEM, DGEF, DGEME and	33 participants of which 8
ANACM on the integration of climate data and the risk management	women
approach in the water sector (UNEP funds).	
Training of staff from ANACM and DGEF on the collection and analysis	18 participants of which 5
of climate data and the downscaling of climate models (UNEP funds)	women

- 88. It was planned also to introduce hydrological modelling. However, it turned out that the hydrological data available were not sufficient for this modelling. Training was carried out, but concrete modelling was not done. The planned installation of hydrological measuring equipment was not done. Several of the activities related to the first output were gathered after the Mid Term Review in a new activity 1.1.4 "State of the Art study on water and climate in Comoros, including analysis of sectorial policies that hinder or facilitate resilience and, links between tides and salinity, an analysis of costs and benefits of adaptation, and the recommendation of adaptation indicators". This study in the latest planning scheduled for last quarter of 2016 was not carried out. The justification for this study is not clear, but it is understood that it was intended to better link the hydrological and climate activities in lieu of hydrological modelling of climate impacts and thus lay the foundations for more detailed work to be done later. Hence the consequence of not carrying it out does not appear to be of major importance for the implementation of the present project.
- 89. *In conclusion*, as there is no clear target for these outputs ("increased", but with how much?), it can safely be stated that the two outputs have been achieved. There is clearly more climate information available, it is collected and recorded and ANACM has more capacity to use the data for modelling and forecasting.
- 90. The data could be used better, however. The information is published in a monthly bulletin, but the evaluator considers that the data ought to be available at an ANACM website. Furthermore, as stated by ANACM, the database it very extensive and could be brought to much more use than it is presently.
- 91. Output 1.3. "Preparation and provision of improved climate information for water resource management policies and spending plans"
- 92. This output was to be based on the hydrological modelling of water resources, which turned out not to be feasible due to insufficient data. It should have been done in close cooperation with the AFD project and the SIDS IWRM project. *This output has not been achieved.*
- 93. Output 1.4. "Integration of improved climate information with water resource management policies and spending plans, and other relevant policies"
- 94. The activities under this output were primarily an analysis of the institutional and policy framework for the water sector, make proposals for a revised Water Act ("Code de l'Eau"), develop proposals for tariff policy and analyse the consequences for other sector policies (Agriculture, Environment, Economic Growth). As these activities were taken up by the AfDB financed PAEPA project, they have not been carried out by the ACCE. The PAEPA project has only been partly successful in achieving this output: the sector analysis has been carried out and a proposal for a revised Water Act has been developed. The proposal has not passed parliament and is still under consideration an often heard comment is that the proposal is too

<sup>32</sup> The original formulation was: "1.1.4. Analyse available meteorological data (including data converted in Activity 1.1.3, river flow data and rainfall data) to validate the hydrological models computed in Activity 1.2.1. "It was joined with the original activities 1.1.6 ("Installation of tide gauge"), 1.5.1 ("Develop a capacity development plan for policy review and design among stakeholders.") and 2.1.9 ("Develop indicators and targets to measure adaptation in the water sector").

- generic and not sufficiently adapted to the concrete Comorian environment. The output has thus been *partly achieved*, but due to another project.<sup>33</sup>
- 95. Output 1.5. "Capacity development plan for policy review and design among decision-makers developed based on best known scientific and technical evidence-base"
- 96. The elaboration of a capacity development plan was taken out after the Mid Term Review as this was being done by the PAEPA project. The planned training was not carried out either, according to the former project coordinator because the new Water Act had not been approved. The output has thus been *partly achieved*, but due to another project.
- 97. Output 1.6. "Capacity development plan for policy review and design among decision-makers implemented"
- 98. The activities included the establishment of a cross-ministerial body for government coordination on adaptation policy and training activities. These have not been done, according to the former project coordinator because the new Water Act had not been approved. Hence, the output has not been achieved.

#### 4.2.3 Achievement of outputs related to Outcome 2

- 99. Output 2.1. "Technologies to improve water access and quality that mitigate climate change risks piloted, e.g. soil conservation measures, water harvesting, remedial work on existing boreholes"
- 100. As mentioned, the five planned pilot projects have been implemented, but with a general reduction in scope due to budget constraints, and one of the sites was changed (the five Djandro Plateau communities were substituted with the neighbouring communities Hoani and Mbatsé).
- 101. The main scope of the projects was eventually the following:
  - 1. The Moroni project with Ma-Mwe. The improvement of the network was limited to the 7 km Transmission Main from TP5 to the main reservoir (RB2000), partial rehabilitation of the borehole TP5, installation of 5 valves for air exhaust, 1 interconnection and 1 evacuation valve. The borehole UNO4 is presently under rehabilitation with other funding.
  - The Bandasamlini Project, Grande Comore (Njazidja). The project scope was changed to mainly cover construction of impluviums, reforestation and training in soil and water conservation. The planned reservoirs are under construction with funds from the CRCCA project.
  - 3. *The Nioumakélé project, Anjouan (Nzwani)*. The rehabilitation of the network was limited to the construction of a new water intake and a partial rehabilitation of the transmission main.
  - 4. The Lingoni-Pomoni project, Anjouan. The rehabilitation of the network was limited to the rehabilitation of the intake, construction of a new transmission main and the construction of a slow filter was added. Only one of the reservoirs was constructed (Pomoni), the other reservoir (Lingoni) was rehabilitated. 57 public stand-posts installed.
  - 5. The Mbatsé-Hoani Project, Mohéli. As the site was changed, the scope was also different from the planned. The project consisted in the rehabilitation of the water intake, a new transmission main, a slow filter and one reservoir. Installation of 35 public stand-posts and rehabilitation of 20 more.
- 102. In conclusion, the output has been partly achieved (partly only due to budget constraints).

<sup>33</sup> The evaluator has been informed that after the finalisation of the evaluation, the Ministry has finalised the revision of the proposal for the Water Act and submitted it to the Parliament.



Impluvium, Bandasamlini financed)



Water harvesting Reservoir, Bandas. (CRCC



Contour planting, Bandasamlini



Slow filter, Lingoni-Pomoni scheme



Public stand-post, Pomoni



Broken school stand-post, Pomoni





Household yard connection, Pomoni

Water reservoir, Hoani

## 103. Output 2.2. "Community members trained to manage adaptive water interventions sustainably"

- 104. Training has been carried out of members of the water committees ("Comités de gestion de l'eau") in four of the pilot projects (i.e. excluding Moroni). Slow filters for water treatment have been constructed at two sites (Lingoni-Pomoni and Hoani-Mbatsé) as the lack of water treatment in the community water schemes is an obvious challenge. The Ma-Mwe staff has been trained in soldering of HDPE pipes.
- 105. The ex-project-coordinator has provided the following information on the training carried out for community members:

Table 6. Workshops Outcome 2

Training workshops	Participants
Training on Community Management of water supply	28 members of the Lingoni-Pomoni, water committees, of which 8 women (Anjouan) 20 members of the Mbatsé-Hoani water committees, of which 8 women (Mohéli)
Training on maintenance and repair of rural water supply networks	15 members of the Lingoni-Pomoni and Nioumakelé water committees (Anjouan) 10 members of the Hoani-Mbatsé water committees (Mohéli)
Training on sustainable and resilient agricultural land management	125 farmers in 8 groups
Training of farmer-promoters on installation and maintenance of drip-irrigation kits	26 farmers in Bandasamlini, 17 in Lingoni –Pomoni (Anjouan) and 9 in Mohéli

- 106. As the output has been formulated more as an activity than as an output, it can be said that *the output has been achieved*. However, sustainability remains a distant goal still, as discussed below in the section on sustainability.
- 107. Output 2.3. "Degraded agricultural and forested lands in pilot sites are the object of sustainable land use plans and vegetative cover increases"
- 108. A participative species selection for reforestation was carried out, land use plans were elaborated and training in agro-sylvo-pastoral systems was carried out. Participatory reforestation was carried out within communities in the framework of the national campaign "1

Comorian, 1 tree". Data on number of trees planted are hard to get at, but according to reporting from the Ministry, 180,000 trees were planted, of which 144,000 were surviving. However, as much of the planting has been done on communal lands, and the survival rate on these communal lands according to information from some of the participants is extremely low, it is dubious whether there has been a measurable increase in the vegetative cover. We shall discuss this further under the sustainability section below. The output has thus been partly achieved.

#### 4.2.4 Achievement of outputs related to Outcome 3

- 109. Output 3.1. "Knowledge products developed on lessons learned for policy makers, communities and donors throughout the project"
- 110. The planned activities were the compilation of project results and identification of potential barriers to their replication, and the launching and disseminating of knowledge products and communications products.
- 111. Apart from the printing of some pamphlets and the production of caps and t-shirts, *this output has not been achieved.*
- 112. Output 3.2. "Learning disseminated through platform for national learning and sustainability"
- 113. The activities carried out were related to the project inception: an inception workshop, community workshops on the project and publicizing information on the project in newsletters, newspaper articles and other local media. The potentially more transcendental activities as creating a parliamentary working group and the organisation of national and island workshops disseminating the results and lessons learnt from the project have not been carried out. Hence, the output has been partially achieved.
- 114. Output 3.3. "Disseminate Comorian experience in knowledge networks related to water and climate change, including ALM, GAN and IW Learn"
- 115. This has not been done; hence the output has not been achieved.
- 116. Concluding on the achievement of outputs, it is evident that many outputs have not been achieved or have only been partially achieved. There are several reasons for this, as mentioned above. It obviously does not make sense to insist on an output that another project is already working on delivering (e.g. the policy framework and the elaboration of an institutional strengthening plan being done by the PAEPA project). However, there are also some more project design related constraints. It is e.g. not clear, how it should be possible to derive the lessons learnt from the project and disseminate these in community workshops and on knowledge platforms within the stipulated project period, unless the implementation plan had allowed for a significant period after the implementation of the last proper project activities to carry out these (in practical terms) post-project activities. The main reason the pilot project outputs under Outcome 2 have only been partially achieved is again down to a design issue, as the original budgeting for these projects was way below what was needed. It is the impression that when prioritising the outputs, the pilot projects were considered imperative as there was much pressure from the communities and the Government to show concrete results, leading to lower priority being given to the more climate change specific outputs under component 1 and 3, but on the other hand the evaluator has not seen evidence that there were other relevant outputs that could have been prioritised to enhance outcomes 1 and 3. For these reasons it is assessed that the achievement of the outputs is moderately satisfactory (and not unsatisfactory).

#### 4.3 Effectiveness: Attainment of project objectives and results

- 117. A baseline study was carried out during the inception phase (in 2011), which revised the indicators for the objective and the outcomes and proposed some changes to these, and established baseline values. A total of 9 outcome indicators were originally included in the project document. After the baseline study, several of these indicators were changed and once again after the Mid Term Review. In the end, two of the indicators were dropped as not measurable (indicators for typhoid cases and for increased agricultural production), and 7 indicators remained.
- 118. Several of these indicators have not been measured and the assessment of the indicators made by UNEP and UNDP respectively is not identical. In Annex F there is a table with the (revised) indicators, baseline values, end-project targets, assessment made by UNEP and UNDP and comments by the evaluator. In the present section we will only give an overall summary assessment of the outcomes. For details, please see Annex F.

#### 4.3.1 Attainment of Outcome 1

- 119. **Outcome 1:** Institutions at a national (i.e. Ma-Mwe and ANACM) and community (i.e. UCEA and UCEM) level strengthened to integrate climate change information into water resource management.
- 120. One indicator for Outcome 1 is: "Number of policy documents at the Union decisional level, the island decisional level and the community/local level revised or elaborated to include regulations and provisions that promote gender equitable adaptation in the water sector." It has an end-project target of:
  - a) The Water Act is revised and includes regulations and provisions that promote genderequitable adaptation.
  - b) One water programme with priority actions by 2030 is elaborated by the end of the project.
  - c) Water Acts at the local level in the pilot sites in Moheli and Anjouan are revised to include regulations and provisions that promote gender-equitable adaptation
- 121. The following has been achieved:
  - a) The Water Act has been revised, but financed by the PAEPA project. The quality is questionable and there is still a long way to approval and implementation. <sup>34</sup> <sup>35</sup>
  - b) Not achieved.
  - c) There are no local Water Acts, but the project has elaborated standard statutes and regulations for water management committees which can be used locally. No specifics regarding women or gender are mentioned in these standard regulations (e.g. composition of the boards).
- 122. The second indicator for Outcome 1 is: "The number of policy-makers and planners at the Union and island levels using adjusted processes and methods (e.g. collecting water data and climate data, modelling climate trends and monitoring water quality and supply) to develop gender-equitable water management policies that integrate climate change projections".
- 123. The end-project target is: "By the end of the project, at least the following numbers of planners are using adjusted processes and methods, in terms of collecting water and climate data, modelling climate trends and monitoring water quality and supply, to develop water management policies that integrate climate change projections: 7 policy makers and planners at Union level, 5 in MaMwe; 10 in ANACM; 3 in the Directorate of Environment in Mohéli; 5 in the Directorate of Environment in Anjouan; 2 in UCEM and 7 in UCEA."

<sup>34</sup> There is for example no mention of gender issues in the proposal.

<sup>35</sup> The evaluator has been informed that after the finalisation of the evaluation, the Ministry has finalised the revision of the proposal for the Water Act and submitted it to the Parliament.

- 124. UNDP reports that "12 planners use methods adjusted to take climate change into consideration in order to develop water management policies". It is not clear what exactly UNDP is basing the assessment upon. The evaluator has not been able to make a firm assessment on this from the interviews.
- 125. The **evaluator assessment** regarding the first outcome is that there is clear progress in ANACM (collection of data, modelling and analysis), and that there is a more widespread awareness in the institutions (DGEME and DGEF) about the need to improve the management and integration of data related to climate in general and climate change in particular. There is furthermore a nascent interest in integrated water resource management, and there is an on-going political process to bring forward a new Water Act, which is expected to include a more consistent regulatory framework for water resource management. However, there is till a long way to go before an appropriate policy and institutional framework for climate change adaptation is in place. This should not be a surprise as this type of political processes tends to be slow.

#### 4.3.2 Attainment of Outcome 2

- 126. **Outcome 2:** Water supply and water quality for selected pilot communities to combat impacts of climate change improved.
- 127. The first indicator for Outcome 2 is: "Overall perception of the population per pilot site on: i) the daily quantity of water accessible for domestic uses ii) the facility of access to this water and iii) the quality of the water used (as per WHO standards) on a rating of 1-4"36
- 128. The end-project target is: Raise the rating to 2 for all three criteria across all project sites. The UNDP assessment is that this target has basically been achieved.<sup>37</sup>
- 129. As mentioned, the Vulnerability Reduction Assessment workshops carried out in the communities during the baseline study have not been repeated end-project (the UNDP ratings is a desk assessment). The evaluator has only been able to talk to members of some of the water committees. It is debateable whether the change of this indicator made after the Mid Term Review to cover *perceptions* instead of more tangible data on water quantity, water quality and continuity of service was a good idea. These more tangible data could have been collected with a relatively simple monitoring system, but as this was not done, it is not possible to make a precise assessment.

#### 130. The evaluator assessment is that:

- a) *The quantity* of water has increased, but due to the old distribution network, this is not fully noticeable to the users.
- b) *The quality* has probably improved at the two sites where slow filters have been installed, but water quality measurement has not been carried out so this can not be documented.
- c) Access has only improved where increased water pressure has returned water to sectors connected, but where the water did not reach, and in some cases where new areas have been covered with public stand-posts. Access is still a major problem in Moroni, Hoani-Mbatsé and probably Lingoni-Pomoni. The UNDP rating as 2 (users report that they are satisfied) therefore appears too optimistic.
- 131. The second indicator for Outcome 2 is: "Number of surviving trees in reforested areas", with an end-project target of "80% survival rate which gives 144,000 living trees by the end of the project". The executing agency reports that the tree planting directly attributed to the LDCF project is around 140 ha (140,000 trees), with a reported 'good' survival rate.
- 132. **The evaluator assessment** is that the survival rate of the reforested communal areas is very low, in some cases zero. During the visit to *Bandasamlini* the evaluator proposed to visit the reforested areas, but was told by the farmer-promoters working with the project that there was

<sup>361 =</sup> very satisfied, 2= satisfied, 3 = unsatisfied, 4 = very unsatisfied.

<sup>37</sup> For details, including the baseline values, cfr. Annex F.

really nothing to see, as survival was close to zero. At Hoani-Mbatsé the evaluator saw some areas on the river banks that had surviving trees and others where almost nothing was left. The survival rate at private farms seems to be much higher, particularly for the fruit trees (up to 80% in Bandasamlini). A more comprehensive assessment is not possible due to lack of monitoring data.

133. **The overall evaluator assessment** of the attainment of outcome 2 is that the pilot projects have contributed to improve the water supply in the communities (and Moroni), but as mentioned not to the degree expected due to the limited character for the interventions. The promotion of water and soil conservation in agriculture has no doubt had some positive effects. It is difficult to assess the degree of impact, as there is no monitoring data on e.g. how many farmers have actually put into practice more sustainable farming methods. As this is a relatively small add-on component, the impact is probably not very significant<sup>38</sup>. Changing agricultural practices among small farmers is a long progress, which is often started working with selected farmer-promoters (as it has been done in the project) and then the successful experiences are promoted among other members of the communities.

#### 4.3.3 Attainment of Outcome 3

- 134. **Outcome 3**: Awareness and knowledge of adaptation good practice for continued process of policy review and development increased.
- 135. The first indicator for Outcome 3 is: "Percentage of men and women (public and decision makers) aware of climate change vulnerability and adaptation responses". The end-project target is: "By the end of the project, at least 30% of the population within pilot site communities are aware of climate change impacts and adaptation options. Mid-way through the project, at least 10% of the population within pilot site communities are aware of climate change impacts and adaptation options based on their involvement with pilot site interventions." The UNDP assessment is that 40% of the population within pilot sits and 70% of decision-makers have better knowledge on climate change impacts and adaptation options.
- 136. As no measurement has been made, neither for the baseline, nor for the end-project situation, it is difficult to assess. It is not clear how the 10% baseline value was arrived at, neither how UNDP makes its assessment of the 40%. With these caveats, the evaluator assessment is that there is an increasing awareness of the impact of climate change, as this was mentioned by many of the interlocutors. This is no doubt an effect of the many campaigns and projects related to climate change, including the present project. A more precise attribution is not possible.
- 137. The second indicator for Outcome 3 is: "Number of newspaper articles, booklets and pamphlets highlighting lessons learned during the project and # of technical documents on lessons learned submitted to knowledge networks". The end-project target is that "The project lessons are distributed in hard copy (e.g. pamphlets, briefing notes, newsletters, booklets etc), electronically (e.g. via the project website), via radio broadcast and via one national and three island-level workshops. Mid-way through the project, a project website is operational and is regularly updated with project information.
- 138. The UNEP-UNDP assessment is that this is work in progress as a number of communication products have been produced.
- 139. The evaluator has seen a few communication products but has not received a complete list of what has been produced. The web-site was reportedly working for two years. If a distinction is made between (a) general communication products on climate change and the project, and (b) technical documents for knowledge networks, **the evaluator assessment is** that the general communication (a) has probably been covered quite well, but more specific technical information on the project and the lessons learnt (b) has *not been covered at all*.

<sup>&</sup>lt;sup>38</sup> Which is also the reason why the very ambitious indicator related to increased agricultural production was taken out.

140. **The overall evaluator assessment** of the attainment of outcome 3 is that there has been an increase in awareness, attributable to many different programmes, of which the present project is one. However, it is difficult to quantify. The contribution of the project to learning is minimal, but this could still be done (see the recommendations below). As a consequence, **the overall evaluator rating of the attainment of outcomes** is *moderately unsuccessful*.

# 4.3.4 Attainment of project goal and planned objectives

- 141. The overarching *goal* of the project was "to adapt water resource management to climate change in the Comoros." The project objective was that "The risk of climate change on lives and livelihoods from impacts on water resources in Comoros has been reduced". The indicator was: "The percentage change in vulnerability of men and women living in the pilot sites to climate change risks on availability of clean water." The baseline study carried out vulnerability reduction assessment workshops in the villages. <sup>39</sup> The end-project target is that the vulnerability is reduced to 2 at all 5 project sites <sup>40</sup>. The UNDP assessment is that this target has been achieved.
- 142. The vulnerability reduction assessment workshops have as mentioned not been repeated endproject and the evaluator has only been able to talk to randomly selected community members. **The evaluator assessment** is that the vulnerability has been reduced, but taking into account the limitations of the water supply schemes installed, a rating of 2 appears too optimistic.

# 4.3.5 Likelihood of impact based on reconstructed ToC and using RoTI

- 143. As mentioned, the objective is: "The *risk of climate change on lives and livelihoods from impacts on water resources in the Comoros has been reduced*".
- 144. As mentioned in section 3.8 on the reconstructed ToC, to reach this desired situation the *following intermediate states* could be envisaged:
  - a) The institutions, among these ANACM and Ma-Mwe, have put in place a self-sustaining system with the capacity to predict the future impact of climate change on water resources,
  - b) A satisfactory policy framework for IWRM is put in place, and
  - c) The improved policy framework for IWRM is implemented and enforced
  - d) Best practices from the pilot projects and other experiences are integrated into the GoC's developments plan for the water sector and used for scaling up.
- 145. The likelihood for a) to happen is considered high for ANACM which has already reached a good capacity, but low for Ma-Mwe. b) is in process, and is also likely to take place, but it will probably take several years, so it is considered moderately likely. c) obviously depends on b), and experience from other countries in Africa and elsewhere shows that this is a rather long process, so again it is *moderately likely*. Another thing is "attribution". Regarding a), the attribution by ACCE is considered to be substantial, while for b), the attribution from other projects is considered to be more important.
- 146. Regarding the assumptions identified in the reconstructed ToC:
  - a) There is a political interest and will to implement and enforce IWRM. This interest and will is considered to be weak for the moment, but as the issue of water becomes increasingly serious due to climate change and increased population pressure, the assumption is in the medium to long term considered to be likely to hold.

They were conducted based on a composite of 4 indicator questions: (i) Vulnerability of livelihood/welfare to existing climate change and/or climate variability; (ii) Vulnerability of livelihood/welfare to developing climate change risks; (iii) Magnitude of barriers to adaptation (institutional, policy, technological, financial, etc); and (iv) Ability and willingness of the community to sustain the project intervention.

<sup>&</sup>lt;sup>40</sup> A vulnerability score on a scale of 1 to 5. (1: Not vulnerable; 2: Not very vulnerable; 3: Moderately vulnerable; 4: Quite vulnerable; 5: Highly vulnerable.)

- b) The Government gives priority to improving the water resource management. Following the above reasoning, as the political will increases with time, this assumption is also considered to be likely to hold in the medium to long term.
- c) Funding is made available for scaling up. The likelihood of this assumption to hold is difficult to assess as it depends on the financial capacity of the Government and the willingness of the development partners to contribute. It is considered moderately likely to hold.
- 147. Barriers are as mentioned likely to be: a) Resistance to IWRM measures from vested interests, (b) lack of understanding in the communities of the need for IWRM measures to secure the water resources for the common good, and (c) difficulties in the enforcement because of lack of political backing when negotiation and consensus seeking turns out to be insufficient to solve conflicts over the water. This is often when political will to implement IWRM falters.
- 148. For the upscaling to happen (intermediate stage d) above), a driver is that a solution is found to the challenge of sustainable operation and management of the water supply schemes. As it will be discussed in the next section, this continues to be a serious challenge and should be prioritised by the water sector stakeholders.
- 149. In conclusion, *it is considered moderately likely* that the objective will be achieved, but it will take time. There are considerable barriers, but also a noticeable political will to progress. There are several on-going efforts with external support to put in place IWRM (among these the SIDS-IWRM project and the newly approved UNEP GEF financed Watershed Management project). The challenge related to sustainable operation and management is recognised, even if the resistance to payment for water and in particular a tariff which secures cost recovery is still considerable, among both the population and several influential politicians.

# 4.4 Sustainability and replication

- 150. The strengthening of ANACM appears to be sustainable. The institution has a considerable technical staff with a relatively low turnover. The change of Government in mid 2016 led to changes to the top management, but not to changes in the technical staff. The institution has continuous technical support from ASECNA and the World Meteorological Organisation. The provider of the weather stations has a representative in the country. As ANACM is an autonomous institution that also covers civil aviation, it has a fairly stable economy.
- 151. The admittedly limited efforts done by the project to *improve the policy framework* and institutional set-up (given that the planned activities were taken over by PAEPA), including the drive towards IWRM, have contributed to setting in motion a process, but it *cannot be considered sustainable*, unless further support is given. Luckily, several donors seem to be willing to do this. The Water and Sanitation Sector Working Group mentioned above has the water policy high on the agenda. Furthermore, several new projects to support IWRM are upcoming.
- 152. The main institutional anchoring of the project in Anjouan and Mohéli is in *the unions of water committees (UCEA and UCEM)*. These organisations have been created with support from earlier projects by the French Development Agency (AFD). They are supposed to be maintained financially by contributions from the members (the water committees), but in reality *they depend crucially on external support*. There are several ideas on how to make them viable in the future, among these as service providers and providers of spares to the water committees, but it is likely that they will in the medium term continue to be almost completely dependent on external support. An AFD representative explained to the evaluator that it is planned to continue cooperation within the water sector in the future and that this support will include continued technical and financial support to UCEA and UCEM. So at least in the medium term, the unions should be able to continue operating.
- 153. The water division of Ma-Mwe has a quite capable technical staff and was itself in charge of laying the Transmission Main financed by the project. However, the organisation is predominantly an electricity provider, and water supply is clearly a second priority (there is presently no wastewater services). The payment for water is extremely low a rough

calculation made by Ma-Mwe in 2012 showed that only around 20% of the water produced was actually invoiced. The rest was either physical losses (leakages in the network) or commercial losses (water delivered was not metered and invoiced). This is clearly unsustainable. There is no quick fix for the lack of sustainability of Ma-Mwe. A privatisation was tried a decade ago but was not successful, and the company was taken back by the Government. The bad state of the distribution network is one of the main problems, but also the lack of a proper company structure. The Ma-Mwe water director wants his division separated out as an independent company, be that public or private. But for the company to be viable, heavy investments are needed, among others for network rehabilitation (substituting the old asbestos-cement pipes with HDPE pipes), increased reservoir capacity, construction of new wells and installation of meters. A completely new commercial department would have to be set up to secure metering and invoicing. How likely this is to happen is difficult to say. The director of DGEME expressed that she is aware of the need for a complete overhaul of Ma-Mwe, so the political will may be there. Regarding financing, UNDP is - as mentioned - about to present a new project to the Green Climate Fund, which includes follow-up on the pilot projects, including considerable funding for Ma-Mwe. If this financing is achieved, the future may look brighter, on the condition that profound changes are made at Ma-Mwe – in fact a complete organisational overhaul.

- 154. The four *community water supply projects* also have serious challenges regarding sustainability, and it can safely be stated that if substantial action is not taken to secure operation and maintenance, they *are not sustainable*. There is an urgent need to put into place systems for operation and management and cost recovery. If that is not done, the water schemes will soon start to degrade, a process that is already visible. The challenge for the community pilot schemes is aggravated by the fact that the water supply schemes are incomplete, as they do not include rehabilitation of the distribution network or the installation of meters. An interlocutor told the evaluator that he considered that the Pomoni-Lingoni water supply system was "unmanageable" ("ingérable") due to the fact that investment had not been made to improve the distribution system. The evaluator agrees with this assessment.
- 155. In general, these community water supply schemes are too big for informal community management, where the operation and management is based on voluntary work. There is an urgent need to set up a formal structure for operation and management and financial management and to pay for the operation and management services (independently of the institutional set-up, i.e. whether the community takes on the responsibility for operation and management and hires the necessary staff or contracts the operation and management out to private operators). It is worth mentioning that this problem is general for the Comoros, as most water supply schemes lack sustainable management. There are few cases of successful management. One case mentioned is Sima town (Anjouan) (around 11,000 inhabitants, not visited), where the water supply is managed by a private company. However, at the same time the evaluator was told that the water tariff is 1,000 KMF (around 2 Euro) per m3, which does not sound as a realistic model to replicate. UNDP informs that in the project presented to the Green Climate Fund, extra funding for the four community water supply schemes is included. It is vital when trying to put into place a sustainable management system that it starts out with a reasonably well functioning scheme, including distribution and metering.
- 156. The *reforestation* on communal lands is clearly *not sustainable*. One of the challenges is the lack of clear property rights. Lands that are denominated communal tend to have somebody considering himself the owner. So in cases where the perceived owner does not agree, he will simply cut down the trees planted (the evaluator was shown two cases where this had

<sup>41</sup> Experience from other countries in Africa known to the evaluator (e.g. Burkina Faso and Uganda) is that when the tariff for community water is too high, it tends to start a vicious circle of falling consumption, increasing prices and lack of profitability, as people revert to insecure water sources.

<sup>42</sup> An earlier World Bank Water Supply project in Mutsamudu and Fomboni, where the posterior operation of the schemes was contracted out to private operators, turned out unsatisfactory due to several factors, among these a low service level because of the state of the network, which created conflicts between the stakeholders. See the study: Nodalis: "Diagnostic de la gestion de l'eau en milieu urbain aux Comores. Fomboni et Mutsamudu", 2013

- happened). Generally, when planning reforestation, it should be analysed why the area has been deforested in the first place. If the factors causing the deforestation are still present (use for agricultural activities, use for grassing, agricultural fires etc.), there is no reason to believe that the reforestation will be successful.
- 157. *Drip-irrigation* has been introduced as a water conservation measure, e.g. in Bandasimlini. According to the farmer-promoters the drip-irrigation kits worked well the first year, but not afterwards. They claimed that the reason was the quality of the drip-irrigation kits, but it is difficult to say. It might also be because of the lack of experience with drip-irrigation farming and hence that care is not taken to protect the pipes. The challenge was recognized by the CRCCA project team (which continues the activities started by the AcCCE), and they told the evaluator they were now piloting alternatives.



Broken (and abandoned) drip-irrigation pipes, Bandasamlini

- 158. Based on the above the following *overall assessments* can be made of the different sustainability categories mentioned in the terms of reference:
  - a) Socio-Political sustainability. As mentioned, the political will to take action on climate change in the water sector is rather incipient presently, except for simply investing in supplying more water. A political process favouring improved water resource management has been set in motion. However, if there is no further external support, it will be very slow. Socially, there is increasing awareness of climate change and the need to adapt, but in very general terms. As further external support is likely to materialise, it is considered likely that the process will achieve socio-political sustainability,
  - b) Sustainability of the institutional framework. The present institutional framework is not conducive for an improved water resource management to adapt to climate change. A clear policy and regulatory framework for water resource management is not in place yet, and in the case of Ma-Mwe a restructuring is necessary. The project has, as mentioned above, contributed to a process that may result in an improved institutional framework, but again further external support is needed. As this support is likely to materialize, it is considered moderately likely that an improved institutional framework may be put in place in the medium term.
  - c) Technical and financial sustainability. The weak point is as mentioned related to the technical and financial sustainability of the water supply schemes constructed with support from the project, and the improved agricultural practices promoted. These are considered financially and technically unsustainable.
  - d) Environmental sustainability. The activities supported by the project are generally environmentally sound: constructing more robust water supply infrastructures able to withstand harsher climatic conditions, reducing water losses and improving water and soil conservation in agriculture. The main negative environmental effect is as is normally the

case for water supply schemes — that the increased availability of water will produce more wastewater, particularly in the case of Moroni. For that reason, further projects to improve water supply in urban areas should be accompanied by investments to mitigate this negative environmental effect. The environmental sustainability is hence considered moderately likely.

159. As the sustainability clearly is a major challenge, it is assessed to be premature to consider *replication* of the pilot projects. There are good experiences that might be replicated, among which should be mentioned: the participative approach from the very start of the project planning, the use of local contractors in Mohéli and the introduction of slow filters to improve water quality. For the latter, it would be a good idea to check the water quality to assess the working of the filters. It should also be remembered that if the filters are not backwashed regularly, they may actually block the water supply, so good operation and management is absolutely crucial. All in all, the evaluation rating for replicability is considered to be *unsatisfactory*.

# 4.5 Efficiency

- 160. Regarding the *timeliness* of the project interventions, the project has experienced delays, particularly in the implementation of the pilot projects. There are many reasons for these delays, but in the case of the pilot projects the need to carry out proper feasibility studies was an important factor. The Moroni project was thus not finished until mid 2016. Regarding the training activities, the process of hiring external consultants turned out to be very slow. So regarding the timeliness, the efficiency was rated as *unsatisfactory*.
- 161. Due to the lack of detailed financial information, it is difficult to make a well-founded assessment of *the cost-efficiency*. With this caveat in mind, it is the evaluator's impression that much has been done with relatively limited inputs.
- 162. This is for example the case for the project with Ma-Mwe to improve the water supply in Moroni. Ma-Mwe had a considerable stock of HDPE pipes (that it had received earlier as a donation from the Chinese Government, independently of the present project), they contracted out the excavations but laid the pipes with their own staff (after training in HDPE soldering provided by the project). The supervision was provided by the UN volunteers. As the water supply in Moroni did not improve noticeably in many parts of Moroni after the new transmission line went on stream in mid 2016, some critics claim it is due to leakages in the new transmission main due to bad quality of the work laying the pipes. However, Ma-Mwe insists that when they measure what goes in at the well and what arrives to the reservoir RB2000, the loss is actually only around 5%. Obviously, the limited impact of the project is due to its partial character the transmission main has improved but all the other imperfections in the system are still there, particularly the leaking distribution network and the instability of the electricity supply for the pumps (which limits production).
- 163. In general, the works inspected by the evaluator give the impression of being of acceptable, and in many cases quite good, quality<sup>44</sup>. The water committees were generally expressing satisfaction with the works carried out, even if some details were criticised. Often the main critique was related to the limited scope of the work, e.g. in Hoani-Mbatsé where the fact that the distribution network in general was not improved means that several sectors are not connected to the system, and they are of course not happy.
- 164. The use of local contractors is commendable, as is the case of the contractor SOGEM at Mohéli. There are big advantages using local contractors and normally it is less costly. The main risk is the quality, but in this case it does not seem to be a problem as the quality appears to be relatively good.

<sup>43</sup> This sounds plausible, but as the statistics provided by Ma-Mwe for January-February only refer to production (what goes in) the evaluator can not corroborate this.

<sup>44</sup> The evaluator has a lot of experience with water supply systems, but is an economist, **not** an engineer.

165. The use of UN volunteers appears as a case of relatively cost-efficient provision of technical assistance. The assistance was highly appreciated by the partner institutions.

# 4.6 Factors affecting performance

# 4.6.1 Preparation and readiness

- 166. The project planning has been participatory from the very beginning, including the selection of the sites for the pilot projects, where priority was given to the poorest and most water stressed communities. 45
- 167. As has been mentioned during the sections above, the project document is in places not quite realistic regarding the extent, the sequencing and the timing of the outputs, underestimating the time needed for political processes. This is for example the case regarding several follow-up activities, which in practice needed the new Water Act to be approved before it was relevant to carry them out, and regarding the time needed from the end of the implementation of the activities to the documentation and dissemination of the lessons learnt foreseen in outcome 3. This has obviously affected the achievement of these specific outputs.

#### 4.6.2 Project implementation and management

- 168. The project steering has not been functioning as it was planned. The Project Board has taken a more ceremonial character than it was envisaged in the project document. Only 4 meetings have been held in five years, whereas the plan was 2 annual meetings. Furthermore the annual work plans and budgets should be approved by the PB, which is only the case for 3 of them. The technical committees were never made operational.
- 169. There are quite a lot of projects related to climate change in the water sector in the Comoros. It is the impression that there has during implementation been a good coordination between the projects searching for complementarity, which has been very helpful, not least because of the budget constraints for ACCE. This is particularly the case for the AfDB funded PAEPA project, the UNDP-GEF CRCCA project and the AFD projects. A good example of coordination with the latter is the swap made of communities in Mohéli with AFD (Djandro plateau communities exchanged with Hoani-Mbatsé).
- 170. The fact that UNDP has had technical units at each island (RUTI), co-financed by different projects, including the ACCE, has been helpful for implementation, taking into account the difficult transport between the islands. It is difficult to envisage how the projects should have been implemented outside Gran Comore without the presence of these technical units.

# 4.6.3 Stakeholder participation, cooperation and partnerships

171. As mentioned above, the project preparation process has been participative from the beginning, starting with the planning of the pilot projects. This has continued during project implementation with the setting up of local Project Steering Committees with the inclusion of the communities. This participative process means that there is an active participation by the target groups, which is very important for the future. The degree of participation was appreciated by the evaluator during the visit to Hoani-Mbatsé in discussions with the Mayor and the Water Committees regarding the future management of the water supply scheme. What may have been lacking is a better integration of the schools.

<sup>45</sup> The pilot communities were selected at multi-stakeholder scoring workshops on each Island, using 11 criteria, among which are vulnerability to climate change, poverty level, rainfall, level of land degradation, incidence of water born diseases, feasibility of interventions and local implementation capacity. The minutes from the scoring workshops are included as annex to the project document.



Discussion on the future management of the Hoani-Mbatsé scheme at the Mayor's office.

172. In the case of the main national partner institutions (ANACM and Ma-Mwe), it appears that the support received from the project has been discussed thoroughly with these on beforehand and basically corresponds to what they needed (within the financial limits of the project).

#### 4.6.4 Communication and public awareness

173. Communication and public awareness activities were foreseen under outcome 3 and are reported to have been carried out, including pamphlets, newspaper articles and local radio programmes (the evaluator has no seen the products). Regarding the pilot projects, particularly the Moroni project, it is the impression than the information on the project may have been too optimistic taking into account the partial character of the project, which has contributed to the frustration and criticism arising from the lack of improvement in the water supply perceived by many people in the city<sup>46</sup>.

# 4.6.5 Country ownership and drivenness

- 174. The project has been carried out using the national execution modality so the project unit was located in DGEF, and the project manager was the director of DGEF. It is the evaluator's impression that there has been a quite high sense of ownership by the DGEF and the Ministry, which also has been reflected in the high priority given to the concrete water supply activities.
- 175. The UNDP country office took on a quite active role during project implementation, which on one hand has probably helped implementation, but on the other hand has made the division of roles less clear. The evaluator has e.g. been informed that the contracting of external consultants under the UNDP activities were carried out directly by UNDP using UNDP procedures, which turned out to be a quite lengthy process.

# 4.6.6 Financial planning and management

176. All the UNEP funding and part of the UNDP funding were managed directly by the project unit in DGEF. This appears to have been functioning adequately. However, the financial reporting has not followed the original project budget, which was following the logic of activities, outputs and outcomes. Instead, the detailed reporting is on type of expenses (staff, travel, external consultants, payment to contractors etc.). This must have been a major drawback, not only for the progress reporting but also for the financial planning and management (even though the project team appears to have tracked the expenditure per activity for their own management purposes).

<sup>46</sup> See discussion under section 4.5 "Efficiency"

- 177. The extension of the project was given as "no-cost extension" so the extension of the project with two years would be expected to increase the relative weight of the administrative costs. However, referring to the budget and actual expenditures in section 3.6, the actual administration costs are *lower* than budgeted. One reason could be that several administration costs have been reduced (e.g. the non-hiring of communication and M&E staff). This is not easy to determine from the accounts.
- 178. Except for one case, the external auditors do not have comments to the project accounts. The case commented upon by the auditors was a payment made by the CRCCA "borrowing" funds from the ACCE project. This is of course not permitted, and the funds have been transferred back from the CRCCA to the ACCE project.
- 179. As it can be seen from the presentation of the budgets in section 3.6, the project was cofinanced by other projects, but in the sense that these projects aim at some of the same outputs and outcomes as the present one. In some cases these alternative sources of financing have taken over a specific output, which have therefore not been done by the present project. And in other cases these projects have taken over from the present one, as it is e.g. the case of the UNDP managed CRCCA project (construction of reservoirs in Bandasamlini and in general training of farmers in sustainable farming). This close cooperation between the projects has generally been positive, e.g. when the CRCCA project (which continues to 2018) has been able to follow up on activities of the ACCE project in the area of sustainable agriculture, as the ACCE sustainable agriculture component was very limited. A draw back is that it obviously makes attribution more difficult to assess.

# 4.6.7 UNEP/UNDP Supervision, guidance and technical backstopping

- 180. The project implementation was complicated by the fact that the outputs were divided between UNEP and UNDP across the outcomes. This implied in practical terms double reporting to UNEP and UNDP, even if the main donor for both was the same (GEF). According to feedback from the project team, joint implementation also meant that decision making and budget changes in the project became more complicated, but that the two agencies worked constructively to make the arrangement functional.
- 181. The UNEP supervision has been relatively hands-off with only a few visits to the project, which is a common set-up for UNEP projects. Combined with the lack of a proper M&E system it is obvious that it has been a challenge for the UNEP task manager to keep himself updated on the project (written reports and communication with the project director and the CTA by email and phone). The lack of a proper monitoring system is also reflected in the reporting (the PIRs), which is detailed and follows the project document closely, but in places is inaccurate (e.g. in the case of the reforestation survival rates). This is compounded by a lack of timely responsiveness by the project unit to UNEP questions, particularly related to the "closing plan".
- 182. The UNDP has had a much closer supervision from its Country Office in Moroni. However, the progress reports (PIRs) are imprecise and difficult to follow. The reporting follows the standard UNDP format, but it is simply not possible to compare the activities planned in the project documents, including the changes made after the Mid Term Review, with the activities actually carried out. Combined with the lack of detailed financial reporting, this can not have been conducive for the supervision.

#### 4.6.8 Monitoring and Evaluation

183. Concerning the Mid Term Review, one of the main issues being analysed was how to adapt the pilot projects to the lack of funds due to the underestimation of the costs. The Mid Term Evaluation made a long list of recommendations, but most of them quite general and not very operational. Changes were suggested for some of the indicators, which were actually made afterwards, but even so several indicators were not easy to follow.<sup>47</sup>

<sup>&</sup>lt;sup>47</sup> Please see section 4.3 above.

- 184. As mentioned, a proper formal monitoring system was not set up, despite a recommendation in this sense from the Mid Term Review, so there was no system in place to systematically track the achievements of the targets. VRAs were conducted in the pilot communities, but final VRAs to establish the end-of-project situation were not carried out. The *GEF tracking tool* has not been used as it was not mandatory at the time of project approval.
- 185. The lack of a proper monitoring system has made project steering and reporting more complicated than necessary. Relatively simple monitoring tools could have been installed, registering regularly e.g. the water production and the level of service in each community, the number of farmers that are actively participating in training on sustainable agriculture and putting into practice some of the new techniques, the number of farmers receiving subsidised inputs (e.g. drip-irrigation kits, seeds, technical assistance), etc.

#### 4.6.9 External factors

- 186. There is in general a difficult environment in the Comoros when it comes to promoting sustainable management of water supply schemes, as there is a generalised lack of understanding of the need to pay for the water. There are even some political leaders who have been campaigning against the payment for water. However, if the positive discussion with the Hoani-Mbatsé water committees on the need for metering and payment can be taken as a signal, this may be improving.
- 187. The population pressure leading to the use of lands on steep slopes for agriculture leads to continued deforestation and will make it more difficult to conserve soil and water and thus adapt to climate change. The ACCE project, as well as e.g. the CRCCA project, has been promoting contour planting with trees and other perennials to diminish the erosion, which is commendable, but these areas are in reality not apt for agriculture.
- 188. The lack of clarity regarding property rights to communal lands has significantly hampered the promotion of reforestation on communal lands.
- 189. There is in fact no system for water quality control in place in the Comoros, which means that there is little awareness of the problems with water quality, and little incentive to improve the quality.

#### 5. CONCLUSIONS AND RECOMMENDATIONS

#### 5.1 Conclusions

- 190. The Union of Comoros has considerable challenges related to water supply. Even if these challenges are not directly related to climate change, but are rather a result of population pressure, lack of maintenance of existing infrastructure, deforestation and expansion of agriculture to steep sloping lands that are not apt for agriculture, they are expected to be further aggravated by future climate change. The project is thus addressing a highly relevant challenge for the Comoros, and is considered to be well aligned, both to the UN and to the national priorities. However, for different reasons the activities related more directly to climate change adaptation have been reduced and it is clear the pilot water supply schemes have been given priority, thus redirecting the project towards a more traditional water supply project. The relevance is therefore rated as *Moderately Satisfactory*.
- 191. The achievement of outputs presents a mixed picture. Concerning the first outcome (Institutional strengthening to cope with climate change), the main achievements is the strengthening of the collection, storing and analysis of meteorological data (ANACM), while several outputs have not been delivered, either because they were covered by other projects (e.g. improving the policy framework for the sector), were not feasible (e.g. hydrological modelling) or considered not relevant (e.g. training of decision makers, taking into account that the new Water Act has not been approved).

- 192. Concerning the outputs related to the second outcome (the five pilot projects), all projects have been constructed and are operational, but the scope has had to be reduced due to funding constraints as the cost had been underestimated during project preparation. The overall assessment is that the project has delivered within the financial limitations, but that the incomplete nature of the projects represents a major risk related to the sustainability.
- 193. Concerning the outputs related to the third outcome (analysing and publicising the results of the project), little has been achieved (mainly initial workshops and some promotional products). However, this is not assessed to be a major drawback, as it is considered that the expectations regarding this outcome were too high in the project design. It is not likely that a 4-year rather limited project (less than 4 million USD) will result in radically new knowledge being produced that can be included in a scaling up at Union level. The project has some interesting innovations, as e.g. the introduction of slow filters to improve water quality, but the functioning of these filters has not been sufficiently analysed yet (e.g. water quality measurements to check whether the quality has actually improved and possible operation and management challenges) for it to be prudent to do scaling up. Overall, the achievement of the outputs is rated as moderately satisfactory.
- 194. The achievement of the Outcomes also presents a somewhat mixed picture. There is clearly some progress related to Outcome 1, particularly in the field of the collection and use of meteorological data. There has also been some progress in improving the policy framework as the debate on a new Water Act has started, but there is still a long way to go. The introduction of the concept of IWRM, crucial for improving the water resource management, is still very incipient. It is considered that the achievements are acceptable for a relatively short project, taking into account that these political processes normally take quite a long time, and that it is likely progress will continue after the project (helped along by several new externally financed projects).
- 195. Outcome 2 (the pilot projects) is not fully achieved, as the projects due to budget constraints are incomplete. This means that even if the water production has increased, the full benefit is not derived from the projects as reflected in service level and access. This is also the case for the Moroni project. As the projects have been reduced because of an underestimation of the costs, an important weak point not addressed by the projects is the distribution network, so water leakage is a major problem affecting the service. For the community water supply schemes, what the water committees do is to close the water main in the evening so the reservoir can be filled during the night (as leakage during the night is prevented) and hence there is at least water in the early morning hours. Evidently, this is not an optimal solution.
- 196. Outcome 3 (awareness raising regarding climate change and dissemination of project results) is difficult to assess, as awareness is not easily measured. Even so, the evaluator's assessment is that it is partly achieved as awareness on climate change seems to be rising (due to many factors of which the project is only one). The other part of the outcome (dissemination of lessons learnt from the project) has not been achieved. It should be taken into account that as the pilot projects were among the latest activities to be carried out in 2015-2016, it is difficult to identify the lessons learnt immediately after the constructions have finished. This is thus a difficulty inherent in the design of the project. Overall the achievement of the outcomes is rated as Moderately Satisfactory.
- 197. The main weakness of the project is related to the **operation and management**, and hence the *sustainability* of the pilot project infrastructures. This is assessed to be a very serious issue, because if it is not addressed, the infrastructures constructed or rehabilitated will start deteriorating again very soon in fact the deterioration is already visible in places. So basically, the investment is at risk of being lost. It should be added that this problem is general for most projects within the water sector in the Comoros, so it is neither new, nor surprising.
- 198. To address the issue of sustainable operation and management of the water supply schemes, it is necessary to put into place more formal management structures. The community schemes are too big for the operation and management to be based on voluntary work by a Water Committee. More formal structures have to be set up, where the operation and management is taken care of by paid staff, be that own staff or contracting the management out to a private

operator. The challenge related to operation and management is compounded by the fact that the pilot schemes have weaknesses, which have not been addressed by the project, particularly rehabilitation of the distribution network and installation of meters. Before this is done, it will be difficult to establish sustainable management structures for the schemes. These same problems are present for the Moroni project, but at a bigger scale. Sustainable operation is difficult to visualise without further investments to improve the system, combined with an overhaul of the electricity and water company, Ma-Mwe, separating the water division out in an independent company.

- 199. The probability of eventually achieving the objective (increased capacity for the Comoros to adapt to climate change) is considered *moderately likely* (but far from assured), as processes have been set in motion that are likely to continue, supported by both internal and external actors, including newly approved projects by UNEP and UNDP.
- 200. The probability that sustainable management of the water supply infrastructures is put in place depends crucially on whether is turns out to be possible to find additional funding to complement the investments made. UNDP is presently applying for funds from the Green Climate Fund for this purpose. If this funding is approved, and if they are conditioned on improvements in the management of the water schemes, including in Moroni, the probability that the projects become sustainable will increase. The overall rating of the probability of achieving sustainability is therefore *Unlikely*.
- 201. When taking an overall look at the project design, it appears that the project intended to do many things in different areas with a quite limited budget and management setup: Institutional development at national, island and community level, development of the policy framework for the sector, advocacy for inclusion of climate change into the sector policy, improvement of potable and agricultural water supply in Moroni and selected communities, promotion of protection of water sources and promotion of water and soil conservation in agriculture. The risk with this approach is that the investments are spread out too thinly. And this seems effectively to have been the case for the ACCE project, an issue that became more evident as the costs of the water supply infrastructures were heavily underestimated and the project therefore experienced severe budget constraints.
- 202. Returning to the key questions from the ToR (mentioned above under Chapter 2 on the evaluation methodology), the following conclusions can be drawn based on the above conclusions:
  - a) Has climate change information been integrated into the water resources management systems of Comoros as a result of the project? Was the project effective in enhancing institutional capacity at the national and community level to facilitate the process? The answer to the first question is no, and to the second question yes. As mentioned, a process to put into place an improved water resource management integrating climate change information has been started as a result of the activities of several actors, including the present project. The main contribution made by the present project is no doubt the improved availability of climate data and the enhanced capacity to analyse these data.
  - b) To what extent has water supply and water quality improved in the pilot communities as a result of the project? To what extent has this helped the communities to adapt to the adverse effects of climate change? Is there evidence of the approach being replicated elsewhere in the Comoros? The water supply has increased in the pilot communities by increasing the water intake, increasing the reservoir capacity and to some extent reducing the water loss. The quality has probably increased in two of the pilot schemes. To what extent this has happened is difficult to answer due to the lack of monitoring data. These changes, combined with some progress in soil and water conservation, will help the communities to adapt to adverse effects of climate change, expected to result in less availability of water. There is no evidence of replication. As mentioned, the evaluator finds this would also be premature to expect. It may be possible (and commendable) to replicate some of the experiences (see further below).

- c) Has the awareness and knowledge of adaptation good practices increased as a result of the project? Has the increased awareness and knowledge resulted in review and development of adaptation policies? The answer to the first question is probably yes, due to several actions in the field, including the present project (no precise measurement has been made). The answer to the second question is no, not yet.
- d) Overall, has the project contributed towards reducing negative impacts of climate change on water resources in Comoros? Was the project successful in setting in motion a process that will ultimately contribute towards reduced risks of climate change induced problems on the lives and livelihoods of people in terms of water resources? The answer to the first questions is yes. The second question is not adequately formulated. Yes, a process has been set in motion, but this can not be attributed to the present project alone.

Table 7. Summary assessment

Criterion	Summary Assessment	Consultant's Rating <sup>48</sup>	UNEP- EO rating
A. Strategic relevance	The Comoros have serious problems with water supply, which are expected to be exacerbated by climate change in the coming years. The project is considered to be highly relevant and well aligned, both to the UN and to the national priorities. However, there has been a change in focus, directing it more towards a conventional water supply project.	MS	MS
B. Achievement of outputs	The achievement of outputs presents a mixed picture, as several outputs have not been achieved, and others have been reduced as the costs have been underestimated in the project document.	MS	MU
C. Effectiveness: Attainment of project objectives and results			
Achievement of direct outcomes	As several outputs have not been achieved or only partly achieved, this has an effect on the outcomes. This is particularly serious for the pilot projects as they – due to budget constraints - only partly address the challenges in the communities and hence the full benefit of the investments is not achieved.	MS	MU
2. Likelihood of impact	As processes have been set in motion in the area of	ML	MU
3. Achievement of project goal and planned objectives	climate change, water resource management and improvement of the policy framework for the sector, and as several internal and external actors are supporting these processes, it is considered moderately likely that the intended increased capacity for adaptation will be achieved, even if it will take time.	ML	MU
D. Sustainability and replication		UL	UL
1. Financial	The pilot projects are presently not sustainable technically and financially. This is also the case for the Moroni project. The likelihood that this will improve depends on further efforts for funding the sector and for changing the management setup.	UL	UL
2. Socio-political	The political will to take action on climate change in	L	L

<sup>48</sup> Highly Satisfactory (HS); Satisfactory (S); Moderately Satisfactory (MS); Moderately Unsatisfactory (MU); Unsatisfactory (U); Highly Unsatisfactory (HU). Sustainability is rated from Highly Likely (HL), Likely (L), Moderately Likely (ML), Moderately Unlikely (MU), Unlikely (UL), Highly Unlikely (HU).

Criterion	Summary Assessment	Consultant's Rating <sup>48</sup>	UNEP- EO rating
	the water sector is rather incipient presently. A political process favouring improved water resource management has been set in motion, however, if there is no further external support, it will be very slow. Socially, there is increasing awareness of climate change and the need to adapt, but in very general terms. As further external support is likely to materialise, it is considered likely the process will achieve socio-political sustainability.		
3. Institutional framework	As mentioned above, a process has been set in motion to improve the institutional framework for the sector. Where this will lead is of course difficult to say, but it is assessed as likely.	L	L
4. Environmental	The activities undertaken are generally environmentally positive (water and soil conservation, reduction of leakages, improved framework for IWRM etc.). The main negative impact will probably come from increased wastewater in Moroni.	L	L
5. Catalytic role and replication	The project is considered to have played a positive role with good coordination with the different actors, both internal and external. The question of replication is considered premature.	MS	U
E. Efficiency	The project has generally achieved the outputs with limited funds, so it is considered relatively costeffective.	S	MU
F. Factors affecting project performance			
Preparation and readiness	The project preparation is generally considered to be satisfactory. The main weakness is that the question of sustainability has not been sufficiently addressed during preparation. The cost estimates have turned out not to be realistic, which has affected the project. The planned time schedules have in places been unrealistic.	MS	MS
Project implementation and management	The project management set-up has generally been working satisfactorily. It has been supported by the presence of UN Volunteers to give technical support, particularly to the implementation of the pilot projects. The presence of technical units (RUTI) on each island has also been helpful.	S	S
3. Stakeholders participation and public awareness	The pilot projects have had a good stakeholder involvement from the very beginning (site selection) and with local project committees during implementation, which is considered a major strength. At island level, the involvement of local authorities has been less satisfactory.	S	S
4. Country ownership and driven-ness	The modality has been National Execution and DGEF has taken an active role in project management. The main sector institutions have been represented in the project board, but the board has not been meeting as planned and the technical committees have not been functional.	MS	MS
5. Financial planning	The financial planning has been complicated by the fact that the different outputs have been financed by	MU	MU

Criterion	Summary Assessment	Consultant's Rating <sup>48</sup>	UNEP- EO rating
and management	UNDP and UNEP across outcomes. Furthermore, the financial reporting has not been helpful for an overview of the financial situation during implementation, which is an essential planning tool.		
6. UNEP and UNDP supervision and backstopping	The UNEP supervision has been based mainly on the project reporting, which has been quite detailed but in some cases inaccurate (e.g. on the reforestation). The UNDP has followed the project more closely through its Country Office, but the reporting is not very informative.	MS	MS
7. Monitoring and evaluation		U	U
a. M&E Design	A quite good baseline study was carried out during inception, which is commendable. However, several of the outcome indicators defined turned out to not be easy to measure and hence were dropped. No output indicators were defined.	U	U
b. Budgeting and funding for M&E activities	Even though funding was provided for in the budget, these funds were not used as planned.	MU	MU
c. M&E Plan Implementation	The M&E has not been working well, and this is reflected in the rather imprecise reporting	U	U
Overall project rating		MU	MU

#### 5.2 Lessons Learnt

- 203. The project carried out a participatory process to select the communities and the involvement of the communities from the very beginning of the project planning. It is considered that this has been a crucial factor for increasing the community ownership, which appears to be relatively high for at least some of the pilot projects. This is potentially a good point of departure for setting up a sustainable management of the schemes (which for other reasons have not happened). It is a relatively simple element to include in project planning, but is often omitted for time reasons or other inconveniences. This is a positive lesson learnt, widely applicable elsewhere.
- 204. Water quality is a major concern in the Comoros as Anjouan and Mohéli are dependent on surface water for the water supply systems. The introduction of slow filters in two of the community water supply schemes is an interesting innovation to improve water quality, often ignored in community projects. Potentially there is a lesson learnt which can be used for upscaling. However, for that to be the case, the experience needs first to be properly documented. In particular, it has to be documented whether the water quality has actually improved, and whether the required operation and management is suitable for community schemes.
- 205. When planning the pilot water supply schemes, little attention was paid to the issue of the operation and management of the water supply schemes, except for supporting the setting up of water management committees and providing these with some training. This has proved to be insufficient. Another challenge has been that the projects, due to budget constraints, have only addressed some of the deficiencies in the existing systems, while others have not been addressed. This is in particular the case for the existing distribution networks, which have not been rehabilitated, implying that there continues to be substantial water losses in the systems. Furthermore, no meters have been installed. This has made the water supply schemes difficult to manage, and when the schemes are not working properly, people are less willing to pay for

the service. The lesson learnt is that when a water supply scheme is planned, the issue of operation and management should be included from the very project design. Failure to do so puts the future sustainability of the investment at risk. Furthermore, it is important that the project scope include the whole system, including the distribution network and the meters. If the project does not include these elements, it is very difficult to put into place a sustainable management of the scheme. This is not a new lesson learnt, as this is well-known from many other similar projects, but it has once again been confirmed by the present project.

- 206. The community water supply schemes constructed by the project are rather big. They are managed by water management committees, and the task of operating the schemes clearly surpass what can be expected from this type of management, so the infrastructures are not properly operated and maintained. The lesson learnt is that water supply schemes over a certain size can not be managed informally by a community water committee. The operation and management has to be formalised and paid for, independently of the organisational setup chosen (community operated or outsourced to a private operator). Again, this is not a new lesson learnt, as this is well-known from many other similar projects, but is has once again been confirmed by the present project.
- 207. The pilot project in Moroni is support to a rather big city water supply system. However, as the management of the system is the responsibility of an institution (Ma-Mwe) dedicated mainly to the provision of energy, the management of the water supply is not prioritised and the funds for maintaining the system are way below what is needed. Furthermore, the cost recovery is extremely low. This was known when the project was planned, but even so the question of operation and management was not addressed as part of the project, except for some training in the issue of cost recovery. The sustainability of the Moroni water system is therefore very low. The lesson learnt is that support to city water supply systems should include as a clear condition that the management of the system is separated out in an autonomous water company, public or private, and that tariffs should make it possible to cover at least operation and management. If the tariffs are insufficient to cover operation and management, then is should be clearly defined how and by whom it will be subsidized, and the likelihood for this to happen should be assessed. Again, this is not a new lesson learnt, as this is well-known from many other similar projects, but it has been confirmed by the present project.
- 208. The project has supported reforestation on communal lands but the survival of the trees is very low. The reason for the areas being deforested in the first place have not been analysed during the project planning, so this is not surprising. It is understood, that there are many reasons for the deforestation, including pressure from agriculture, lack of clarity on the ownership for these communal lands, agricultural fires etc. The lesson learnt is that when reforestation is planned, the causes of deforestation should be analysed thoroughly. If the factors causing the deforestation are not addressed, the reforestation is likely to be unsuccessful.
- 209. The present project promoting climate change adaptation has included activities in a variety of fields: Institutional development at national, island and community level, development of the policy framework for the sector, advocacy for inclusion of climate change into the sector policy, improvement of potable and agricultural water supply in selected communities, promotion of protection of water sources and promotion of water and soil conservation in agriculture. All these issues are important for climate change adaptation, however, the result is that the investments have been spread out thinly, the management burden has been heavy and the impacts are difficult to discern. The lesson learnt is that when planning a climate change adaptation project, it is important to avoid attempting to do everything, as the risk is that the investments will be spread out too thinly, that it will be difficult to manage and that the impact in each area will be small. It is therefore important to maintain a focus for the project and only include in the project issues outside the focus area of the project, when these are absolutely necessary for success, and it is unlikely that they will be covered by other actors.

#### 5.3 Recommendations

- 210. As it has been mentioned, the pilot projects are incomplete, particularly by not including the improvement of the distribution network and the metering. This implies that it is not possible to reap the full benefit of the investments made. The corollary is that there can be considerable benefits from a relatively limited additional investment. Furthermore, it is very difficult to put into place a sustainable management of the water schemes when these are not functioning properly, so this additional investment can increase the probability of success in putting into place a sustainable management of the schemes. It is therefore recommended to the Ministry of Production and its partners, particularly UNDP and UNEP, to urgently search for additional funds to complement the investments made in the five pilot projects. It is further recommended that these additional funds be conditioned on the putting into place of a formalised management of the community pilot schemes<sup>49</sup>. In the case of Moroni, the condition for the provision of additional funds should be that a process of creating an autonomous water company has at least started. Furthermore, as the arguments for and against privatisation of the water supplies in the Comoros, combined with several unsuccessful experiences with privatisations, appear to have complicated the search for sustainable solutions for the operation and management, it is recommended not to link the setting up of formal structures for the management of the water supply schemes with the question of ownership, as this may derail the process. There are many successful examples of both publicly and privately owned water supply companies in other parts of Africa, so the question of ownership is not at the core of the issue.
- 211. Water quality is a major concern in the Comoros as Anjouan and Mohéli are dependent on surface water for the water supply systems. The introduction of slow filters in two of the community water supply schemes is an interesting innovation to improve water quality, often ignored in community projects. The experience with the slow filters in the community water supply schemes should be documented so decisions can be taken on whether to replicate them in other projects. It is **recommended** to UNEP and UNDP to make sure this happens. If this is not possible using remaining project funds, alternative funding should be found.
- 212. The present project has as one of its stated goals to improve the water resource management and to include into it the expected climate change impact. This goal is considered to be highly relevant, but it is touched upon only lightly in the present project. The evaluator considers that setting up a policy and institutional framework for integrated water resource management (IWRM) is a necessary step towards adapting the management of water resources in the Comoros to climate change. It is therefore **recommended** to the GoC, UNDP and UN Environment to include IWRM in future projects in the country. Experience from other African countries shows that this will be a long process, so it is important not to set up too ambitious short term goals. Putting into place IWRM requires a long haul.
- 213. The project evaluated has few considerations regarding gender. This is surprising as it is well-known that a right approach to gender is essential for community water supply projects. As very little information is available on gender, it is not possible to say to which degree this lack of gender analysis and strategy has affected performance. However, it is **recommended** that future UNEP and UNDP projects within the community water sector in Comoros include gender analyses and based on this identifies possible gender differentiated implementation strategies, including the two new GEF funded projects.
- 214. Taking into account the various observations made in the present report, it is recommended that UNDP and UNEP revise the newly approved GEF projects to make sure that: (a) they have conducted proper feasibility studies, when relevant, (b) a gender analysis has been conducted and is reflected in the implementation strategy, (c) adequate formal monitoring systems are set

<sup>49</sup> At the discussions the evaluator participated in with the Hoani-Mbatsé water committees and the mayor, the water committees raised it as a concern that this may be the case and hence that they needed urgently to do something about it.

up, and (d) when relevant, VRAs are repeated at the end of the project to document the changes that have been achieved.

# ANNEX I. RESPONSES TO STAKEHOLDER COMMENTS RECEIVED BUT NOT (FULLY) ACCEPTED BY THE EVALUATOR

All stakeholder comments have been discussed and an agreement has been reached between the evaluator and key stakeholders.

#### ANNEX B TERMS OF REFERENCE

Terminal Evaluation of the UNDP/UNEP project "Adapting water resource management in the Comoros to expected climate change"

#### I) INTRODUCTION

- UNON on behalf of UNEP Evaluation Office would like to contract a company, an institution of higher
  education or similar entity (the contractor) with access to experienced, qualified staff/consultants to undertake
  this evaluation assignment. The UN envisages that the successful contractor will assign one of its staff (single
  individual) to this assignment albeit with support and access to its wider resources and network to support the
  staff in the performance of duties outlined in the resultant contract.
- The contractor or any member of its staff shall have had no prior involvement in the formulation or
  implementation of the project to be evaluated and will be independent from the participating institutions of the
  project. The contractor will sign the Evaluation Code of Conduct Agreement Form. The contractor will not have any
  future interest (within six (6) months after completion of the contract with the executing or implementing units of
  the evaluated project.
- The contractor/ assigned staff will spend approximately 1.5 months spread over the period October to February 2016 in evaluating the GEF funded project "Adapting water resource management in the Comoros to expected climate change" implemented jointly by UNEP and UNDP.
- The tasks to be undertaken by the successful contractor for the evaluation of the abovementioned project will include but not be limited to:

#### Inception phase of the evaluation, including:

- Conduct a preliminary desk review and introductory interviews with project staff;
- Draft the reconstructed theory of change of the project;
- Prepare the evaluation framework;
- Develop the desk review and interview protocols;
- Draft the survey protocols (partner survey and user survey);
- Plan the evaluation schedule;
- Prepare the inception report, including comments received from the UNEP Evaluation Office and UNDP.

#### Data collection and analysis phase of the evaluation, including:

- Conduct further desk review and in-depth interviews with key stakeholders of the project;
- Keep the project management informed of the evaluation progress and engage the project management in discussions on evaluation findings throughout the evaluation process; and
- Regularly report back to the UNEP Evaluation Office on progress and inform of any possible problems or issues encountered:
- Conduct an evaluation mission to Comoros and visit the project demonstration sites.

#### Coordination of the reporting phase, including:

- Write the main evaluation report, ensuring that the evaluation report is complete and coherent both in substance and style;
- Liaise with the UNEP Evaluation Office on comments received and ensure that comments are taken into
  account during finalization of the main report;
- Prepare a Response to Comments-annex for the main report, listing those comments not accepted by the
  evaluation consultant and indicating the reason for the rejection;
- Prepare a French translation of the evaluation report; and
- Prepare a two-page summary of the key evaluation findings and lessons in both English and French.

#### Managing relations, including:

- Maintain a positive relationship with evaluation stakeholders, ensuring that the evaluation process is as participatory as possible but at the same time maintains its independence;
- Communicate in a timely manner with the UNEP Evaluation Office on any issues requiring its attention and intervention.

# II) OVERVIEW OF THE PROJECT

#### 1) Project Background

Comoros is predicted to be adversely affected by climate change and climate variability. These effects will reduce the availability of water in general and negatively affect the quality of water through dilution of contaminants. Therefore, climate change is likely to have a negative impact on water supply and water quality in Comoros. These adverse effects are superimposed on existing human practices such as high rates of deforestation, as well as inadequate water resources management including inadequate water supply and infrastructure, insufficient water treatment and water quality monitoring. Combined, these factors threaten water and food security, economic growth and ultimately people's livelihoods. However, at the time of project formulation, Comoros lacked the technical capacity and resources to overcome or cope with the challenges related to water resources management in the context of worsening climatic conditions. The project Adapting water resource management in the Comoros to expected climate change was funded through the GEF Least Developed Countries Fund (LDCF). The project was designed to address these challenges by implementing two national adaptation programme action (NAPA) priorities set in 2006, namely the adaptation priority "increase in water supply" and contribute to the adaptation priority "improvement of water quality". The project was designed to work on three islands that constitute the territory of the Comoros with a focus on improving water resources management to increase water supply and water quality under changing climatic conditions.

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#### 2) Project objectives and components

The overarching goal of the project was defined in the project document as to adapt water resource management to climate change in the Comoros. The project's global environmental objective was defined in the project document as to reduce the risk of climate change on lives and livelihoods from impacts on water resources in Comoros.

Outcomes	Outputs		
institutions at a national and community level strengthened to integrate climate change information into water resource management	1.1 Information on climate change risks to water availability in Comoros improved.  1.2 Capacity to assess and monitor changes in water supply and quality developed.  1.3 Preparation and provision of improved climate information for water resource management policies and spending plans.  1.4 Integration of improved climate information with water resource management policies and spending plans, and other relevant policies.  1.5 Capacity development plan for policy review and design among decision-makers developed based on best known scientific and technical evidence-base.  1.6 Capacity development plan for policy review and design among decision-makers implemented.		
<ol><li>Water supply and water quality for selected pilot communities to combat impacts of climate change improved</li></ol>	Technologies to improve water access and quality that mitigate climate change risks piloted.     Community members trained to manage adaptive water interventions sustainably.		
<ol> <li>Awareness and knowledge of adaptation good practice for continued process of policy review and development increased</li> </ol>	3.1 Knowledge products developed on lessons learned for policy makers, communities and donors throughout the project.  3.2 Learning disseminated through platforms for national learning and sustainability.  3.3 Disseminate Comorian experience in knowledge networks related to water and climate change.		

The project was also designed to contribute towards the Comoros UNDAF outcome 4; by 2012, ecosystem integrity is preserved and ecosystem services they provide are valued for the benefit of the population, including communities dependent on natural resources for their survival.

The project was designed to contribute towards both, UNEP and UNDP priorities. Within UNEP, the project was designed to be aligned with the Climate Change Sub-programme. Within UNDP the project was designed to contribute towards the UNDP strategic plan Environment and Sustainable Development outcome 1; strengthened capacity of developing countries to mainstream climate change adoptation policies into national development plans, and the UNDP Comoros country programme outcome 3; current trends in the degradation of the environment and vulnerability to natural hazards and climate are significantly reduced, and the country programme action plan outputs 3.2; the action plan of the development of systematic, institutional and individual capacities of the management and multi-sectoral coordination of the environment is put in place, and output 3.3; the development of management capabilities and integration for SML in the perspective of keeping land fertile and restoration of degraded forests or agricultural areas.

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#### 3) Objective and Scope of the Evaluation

In line with the UNEP and UNDP Evaluation Policies the terminal evaluation is undertaken at completion of the project to assess project performance (in terms of relevance, effectiveness and efficiency), and determine outcomes and impacts (actual and potential) stemming from the project, including their sustainability. The evaluation has two primary purposes: (i) to provide evidence of results to meet accountability requirements, and (ii) to promote operational improvement, learning and knowledge sharing through results and lessons learned among UNEP, UNDP and the GEF. Therefore, the evaluation will identify lessons of operational relevance for future project formulation and implementation.

It will focus on the following sets of key questions, based on the project's intended outcomes, which may be expanded by the evaluator as deemed appropriate:

- (a) Has climate change information been integrated into the water resources management systems of Comoros as a result of the project? Was the project effective in enhancing institutional capacity at the national and community level to facilitate the process?
- (b) To what extent has water supply and water quality improved in the pilot communities as a result of the project? To what extent has this helped the communities to adapt to the adverse effects of climate change? Is there evidence of the approach being replicated elsewhere in the Comoros?
- (c) Has the awareness and knowledge of adaptation good practices increased as a result of the project? Has the increased awareness and knowledge resulted in review and development of adaptation policies?
- (d) Overall, has the project contributed towards reducing negative impacts of climate change on water resources in Comoros? Was the project successful in setting in motion a process that will ultimately contribute towards reduced risks of climate change induced problems on the lives and livelihoods of people in terms of water resources?

#### 4) Overall Approach and Methods

The terminal evaluation of the project Adapting water resource management in the Comoros to expected climate change will be conducted by an independent consultant under the overall responsibility and management of the UNEP Evaluation Office in consultation with the UNEP and UNDP Task Managers, UNDP Evaluation Office and UNEP GEF Coordination Office.

It will be an in-depth evaluation using a participatory approach whereby key stakeholders are kept informed and consulted throughout the evaluation process. Both quantitative and qualitative evaluation methods will be used to determine project achievements against the expected outputs, outcomes and impacts. The evaluation will be conducted in close communication with the project team and the evaluation will promote information exchange throughout the evaluation implementation in order to increase the project stakeholders' ownership of the evaluation findings.

The findings of the evaluation will be based on the following:

- (a) A desk review of (but not limited to):
- Relevant background documentation, inter alia UNEP and UNDP programme documents (UNEP MTS 2010-2013 and 2014-2017 with the respective Programmes of Work, UNDP Strategic Plans for 2010-2013 and 2014-2017), UNDAF Comoros 2008-2012, Comoros NAPA (2006), Comoros Poverty Reduction and Growth Strategy;
- Project design documents (including minutes of the project design review meeting at approval); annual
  work plans and budgets or equivalent, revisions to the project document, the logical framework and its
  budget and possible revisions;
- Project reports such as PIRs, six-monthly progress and financial reports, progress reports from collaborating partners, meeting minutes, relevant correspondence etc.;

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- Documentation on project outputs;
- Mid-term review of the project;
- · Evaluations/reviews of similar projects.
- (b) Interviews (individual or in group) with (but not limited to):
- UNEP and UNDP Task Managers and other relevant staff at the two agencies;
- UNEP and UNDP Fund Management Officers;
- Project manager and other relevant staff at Comoros National Directorate of Energy and Water Resources:
- · Members of the Project Board;
- Project Chief Technical Advisor;
- Members of the Project Technical Committee;
- Relevant staff at project partner organisations;
- (c) The evaluation can conduct surveys or apply other tools to collect evidence to support the evaluation. A detailed description of the evaluation methods will be provided in the Evaluation Inception Report.
- (d) The evaluation consultant will visit Comoros, including the project pilot communities.

# 5) Key Evaluation Principles

Evaluation findings and judgements should be based on sound evidence and analysis, clearly documented in the evaluation report. Information will be triangulated (i.e. verified from different sources) to the extent possible, and when verification is not possible, the single source will be mentioned. Analysis leading to evaluative judgements should always be clearly spelled out.

The evaluation will assess the project with respect to a minimum set of evaluation criteria grouped in five categories: (1) Strategic Relevance; (2) Attainment of objectives and planned results, which comprises the assessment of outputs achieved, effectiveness and likelihood of impact; (3) Sustainability and replication; (4) Efficiency; and (5) Factors and processes affecting project performance, including preparation and readiness, implementation and management, stakeholder participation and public awareness, country ownership and drivenness, financial planning and management, UNEP and UNDP supervision and backstopping, and project monitoring and evaluation. The evaluation consultant can propose other evaluation criteria as deemed appropriate.

Baselines and counterfactuals. In attempting to attribute any outcomes and impacts to the project intervention, the evaluator should consider the difference between what has happened with, and what would have happened without, the project. This implies that there should be consideration of the baseline conditions, trends and counterfactuals in relation to the intended project outcomes and impacts. It also means that there should be plausible evidence to attribute such outcomes and impacts to the actions of the project. Sometimes, adequate information on baseline conditions, trends or counterfactuals is lacking. In such cases this should be clearly highlighted by the evaluator, along with any simplifying assumptions that were taken to enable the evaluator to make informed judgements about project performance.

Theory of Change (ToC). UNEP project evaluations make use of ToC analysis to help assess several evaluation criteria. The ToC of a project describes the causal pathways from project outputs (goods and services delivered by the project) through outcomes (changes resulting from the use made by key stakeholders of project outputs) towards impact (long term changes in environmental benefits and human living conditions). The ToC also presents any intermediate changes required between project outcomes and impact, called 'intermediate states'. The ToC further describes the external factors that influence change along the major impact pathways; i.e. factors that affect whether one result can lead to the next. These external factors are either drivers (when the project has a certain level of control) or assumptions (when the project has no control). The ToC also clearly identifies the main stakeholders involved in the change processes.

The "Why?" Question. As this is a terminal evaluation, particular attention should be given to learning from the experience. Therefore, the "Why?" question should be at the front of the consultant's mind all through the evaluation exercise. This means that the consultant needs to go beyond the assessment of "what" the project performance was, and make a serious effort to provide a deeper understanding of "why" the performance was as it was. This would include reviewing the Theory of Change of the project and the processes affecting attainment of project results (criteria under category F – see below). This should provide the basis for the lessons that can be drawn from the project. In fact, the usefulness of the evaluation will be determined to a large extent by the capacity of the consultant to explain "why things happened" as they happened and are likely to evolve in this or that direction, which goes well beyond the mere review of "where things stand" at the time of evaluation.

A key aim of the evaluation is to encourage reflection and learning by UNEP and UNDP staff and key project stakeholders. The consultant should consider how reflection and learning can be promoted, both through the evaluation process and in the communication of evaluation findings and key lessons.

Communicating evaluation results. Once the evaluation consultant has obtained evaluation findings, lessons and results, the UNEP Evaluation Office will share the findings and lessons with the key stakeholders. Evaluation results should be communicated to the key stakeholders in a brief and concise manner that encapsulates the evaluation exercise in its entirety. There may, however, be several intended audiences, each with different interests and preferences regarding the report. The Evaluation Manager at UNEP Evaluation Office will plan with the consultant which audiences to target and the easiest and clearest way to communicate the key evaluation findings and lessons to them. This may include some or all of the following; a webinar, conference calls with relevant stakeholders, the preparation of an evaluation brief or interactive presentation.

#### 6) Evaluation Deliverables and Review Procedures

The evaluation consultant will prepare an **Inception report** containing a thorough review of the project context, project design quality, a draft reconstructed theory of change of the project, the evaluation framework and a tentative evaluation schedule.

The main evaluation report should be brief (no longer than 40 pages – excluding the executive summary and annexes), to the point and written in plain English. The final main evaluation report in full, will also be provided in French. It must explain the purpose of the evaluation, exactly what was evaluated and the methods used (with their limitations). The report will present evidence-based and balanced findings, consequent conclusions, lessons and recommendations, which will be cross-referenced to each other. The report should be presented in a way that makes the information accessible and comprehensible. Any dissident views in response to evaluation findings will be appended in footnote or annex as appropriate. To avoid repetitions in the report, the authors will use numbered paragraphs and make cross-references where possible.

#### 7) Schedule of the Evaluation

Table 7.1 below presents the tentative schedule for the evaluation.

Milestone	Deadline
Consultant contracted	October 2016
Inception Report	November 2016
Evaluation Mission – 1.5 weeks in Compros	December 2016
Zero draft report	Mid January 2017
Draft Report shared with UNEP and UNDP Task Managers	Late January 2017
Draft Report shared with other stakeholders	Early February 2017
Final Report	Mid February 2017

# Programme

Date		Activity
Monday, February 20	Morning	Meeting in Copenhagen with UNEP task manager Lars Christiansen
Friday, February 24	Morning	Meeting in Nairobi with UNEP Evaluation Unit, Tiina Piiroinen and Shakira Adil Khawaja
Saturday, February 25	Afternoon	Evaluator arrives to Moroni
	Morning	Initial meeting with National Directorate for Environment and Forests (DGEF)
Monday, February 27	Afternoon	Initial meeting with UNDP National Office
		Reading of new documentation received
	Morning	Meeting with ANACM
Tuesday, February 28	Afternoon	Meeting with Director, Ma-Mwe Visit to University of Comores, Water laboratory Buying of flight tickets for visit to Anjouan and Mohéli
	Morning	Meeting with Director, DGEME
Wednesday – March 1	Morning- Afternoon	Field visit to Moroni Pilot Project
Thursday, March 2	Whole day	Field visit to Bandasamlini
Friday March 2	Morning	Meeting with AFD
Friday, March 3	Afternoon	Meeting with GIRE project, Dr. Oledi
Saturday, March 4	Morning	Meeting with CRclimate changeA Project
Sunday, March 5		Start preparation of debriefing
Monday 6 March	Morning	Flight to Matsamudu, Anjouan Meeting with the Union of Water Committees (UCEA)
Moriday o Marcii	Afternoon	Meeting with Directorate for the Environment (decentralised authority) Meeting with Commisariat (de concentrated authority)
Tuesday 7 March	Whole day	Field visit to the two pilot projects (Pomoni-Lingoni and Niumakele)
Wednesday 8 March	Morning	Flight to Mohéli (arriving around midday as the flight was several hours delayed due to rains from Cyclone Enowa)
	Afternoon	Meeting with stakeholders at CDRE, Fomboni Travel to Hoani. Meeting with Municipal Council at Hoani-Mbatsé and representatives from the Water Committees.
Thursday O.Manah	Morning	Visit to pilot project Hoani-Mbatsé
Thursday 9 March	Afternoon	Preparation of debriefing presentation
Friday 10 March	Morning	Flight back to Moroni. Heavy delay due to the disruptions in flights the days before.
-	Afternoon	Finalisation, debriefing presentation
Saturday 11 August	Morning	Debriefing at PNUD Country Office
Jaturuay 11 August	Afternoon	Evaluator departs for Nairobi

# **People Met**

Name	Position
UNEP	
Lars Christiansen	Task Manager, Copenhagen
Tiina Piiroinen	Evaluation Officer, UNEP Nairobi
Shakira Adil Khawaja	Fund Management Officer, UNEP Nairobi
Mela Shah	Senior Programme Management Assistant, UNEP Nairobi
UNDP	
Karim Ali Ahmed	Project Officer, PNUD Country Office
Omar Houmadi	Comptable, PNUD, Moroni
Seybou Mossi	Hydraulic Engineer, VNU
Saïd Hamada Mdziani	RUTI de Ngazidja (Gran Comore)
Abdou Soimadou Ali	RUTI ACCE/CRCCA
AFD	
Bicarima Ali	Project Officer
DGEF	
Youssouf Elamine Mbechezi	General Director
Ismael?	Director, CRCCA Project
Charaf-Eddine Msaidié	Project Coordinator, ACCE, now Expert in Biodiversity, RNAP
Advisors	
Joana Talafre (by Skype)	Chief Technical Advisor
Ministry of Production	
Issimaila Mohamed	National Director, CRCCA project and Deputy Director for DNSAE
ANACM	
Farid	Responsible for Meteorological Services
Mohamed Hamid	Technical Director
Ma-Mwe	
Abderemane	Director for Water
University of Comores	
Dr. Achmet	Dean, Faculty of Technical Sciences
General Directorate for Energy and M	
Mme Chadhuiliati	General Director
CEFADER	
Dr. Ouledi	Administrative and financial responsible, GIRE project
Anjouan, Environmental Directorate	
Mouhoudhoir Boura	Director
Fairouze Toybou	Director for Water
Anjouan, Commissariat for Production	
Nassouri Toilibou	General Secretary
UCEA (Union of Water Committees, A	_ ·
Farid Anasse	Coordinator
Omar Houmadi	President
Pomoni-Lingoni Pilot Project	
Arfashad Mohamoud	Member of Project Steering Committee, Pomoni
?	Wife of President for the Pomoni Water Committee, Shirach Salin.
Nioumakele Pilot Project	
Faisau Suf	President of the Water Committee, Shaucini Village
Stakeholder Meeting at CRDE, Fomb	
Loutoufi madi	Director CRDE fomboni
Ahamada Madi Ahamada	Head of services, CRDE
Bendjadide Ali Tamou	Technician, CRDE
Abdou Soimadou	Member of UCEM
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Name		Position		
Toiouildine Mouandhui	Forme	r responsible for water supply management at UCEM		
Lailina Daniel	Region	nal Directorate for Environment and Forests (DREF)		
Mohamed Mhidhine Tsira	Mohél	i National Marine Park		
Toihiri Mohamed	Direct	or, FADESIM		
Mohamed Abdou	Admir	istrative and financial responsible, SOGEM		
Soidi Ahmed	Memb	er of SOGEM		
Anrifatte Mohadji Charif	Gener	al Director, SOGEM		
Chamsidine Abdallah	Direct	or, Commissariat, Production		
Said Abdouroihmane Ahmed		r director for the DREF. Now president of Water User nittee, Djoiezi		
Malida Abdelkader Ahamada	Member, CRDE			
Ousmane Soiyifiliamane Member, CRDE				
Meeting at the Mayors Office, Hoani-Mbatsé				
Hazalis Dokara	Mayor	, Hoani-Mbatse		
Chamsidine Abdallah	Member of the Municipal Council			
Bacrar ali	Notable			
Ali hamidoun	Member Water Management Committee			
Ahmed omar avilaza	Memb	er Water Management Committee		
Mikidache ahamada	Memb	er Water Management Committee		
Loutfi madi ahamada	Memb	er Water Management Committee		
Enrabi abassi abdallah	Memb	er Water Management Committee		
Ankibou hamissi	Member Water Management Committee			
Madi hamada	Member Water Management Committee			
Field visit, Hoani-Mbatsé	Field visit, Hoani-Mbatsé			
The field visit to the Water Supply Scheme was accompanied by the PNUD RUTI, members of the Water Management Committees and an Engineer from SOGEM (company that constructed the system). For names, see above.				
"Sandy" (nickname) Farmer and promoter for sustainable agricultural practic				

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# ANNEX V. PLANNED AND CARRIED OUT ACTIVITIES

In the table below the evaluator has tried to compare the planned activities with the activities actually carried out. It is not an easy task as the reports are not very specific about the activities carried out. The table has been compiled based on the PIR and information from the former project coordinator.

Outcome	Outputs	Activities	Progress
		1.1.1a definition and adoption of the water and climate monitoring parameters	Completed in 2012 (UNEP PIR)
		1.1.1b. Identification, in collaboration with ANACM of the equipment needs and sites for monitoring stations	Completed in 2012 (UNEP PIR)
		1.1.2 Acquisition and installation of hydrometerological and agrometeorological stations	Completed in 2015 (UNEP PIR)
	Output 1.1. Information on	1.1.3 conversion of existing available data on microfile to a usable format	Completed in 2014 (UNEP PIR)
	climate change risks to water availability in Comoros improved.	1.1.4 State of the Art study on water and climate in Comoros, including analysis of sectorial policies that hinder or facilitate resilience and, links between tides and salinity, an analysis of costs and benefits of adaptation, and the recommendation of adaptation indicators	Planned for 2016 4Q as part of the "closing plan". <b>Has not been</b> carried out.
Outcome 1.		1.1.5 Develop data collection, conservation and analysis systems in each island	Taken over by other project?
Institutions at a national (i.e. Ma- Mwe and ANACM) and		1.1.6 Acquire and analyze data from the tide gauges in Ngazidja to determine links between salinity and tides as well as to measure sea level (reformulated activity as tidal gauge is already available in Comoros)	After the MTR this was to be included in 1.1.4
community (i.e. UCEA and UCEM) level strengthened to	Output 1.2. Capacity to	1.2.1 stakeholder analysis and assessment of needs towards the development of a capacity building plan to strengthen monitoring and assessment capacity for availability and water quality.	Completed in 2014 (UNEP PIR)
integrate climate change	assess and monitor changes in water supply and quality (given climate	1.2.2 Training of ANACM staff on climate data collection and analysis and on climate model downscaling	Completed in 2015 (UNEP PIR)
information into water resource management.	change projections) developed.	1.2.3 Training of MAMWE staff on integration of climate data and on water related climate risk management	Completed in 2015 (UNEP PIR)
management.	Sitt.	1.2.4. Training of UCEA and UCEM staff on the operation and management of hydraulic infrastructures	Completed in 2015 (UNEP PIR)
	Output 1.3. Preparation and provision of improved climate information for water resource management policies and spending plans.	1.3.1 Acquisition and installation of hydrological monitoring equipment including training.	The equipment has reportedly been procured and installed, and final calibration is still needed. Training and final calibration is planned for second half of 2016 as part of the "closing plan". Not clear if this has been done.

Outcome	Outputs	Activities	Progress
	Output 1.4. Integration of	1.4.1 Analysis of sectoral policies that facilitate or hinder community resilience	After the MTR this was to be included in 1.1.4. <b>Not done.</b>
		1.4.2. Develop policy notes showing impacts, costs, benefits of resilience in the three islands	After the MTR this was to be included in 1.1.4. <b>Not done.</b>
	improved climate information with water resource management	1.4.3 Revise the water Code and regulations	Has been transferred to the AfDB financed PAEPA project
	policies and spending plans, and other relevant	1.4.4 Develop recommendation on the changes to national budget or water prices and tariffs, including on cost recovery	Has been transferred to the AfDB financed PAEPA project
	policies.	1.4.5. Review and revise development legislation and policy, the environmental action plan and the poverty reduction strategy	Has been transferred to the AfDB financed PAEPA project
		1.4.5b. Training on the recovery of costs related to hydrological infrastructure	Not done.
	Output 1.5. Capacity development plan for policy review and design among decision-makers developed based on best known scientific and technical evidence-base.	1.5.1 Develop a capacity development plan for policy revision and planning related to adaptation (following 1.2.2)	The activity was removed from the project after the MTR, following the realization that a capacity development plan had been developed by another project.
		1.5.2 Train planners and decision-makers on revisions and proposed changes to existing legislation and regulations	Planned for Q4 of 2016. <b>Not done</b> , as the Water Code has not been approved.
	Output 1.6. Capacity development plan for policy review and design among decision-makers implemented.	1.6.1. Establish an intergovernmental and interministerial process for revising policies related to water	<b>Not done</b> , as the Water Code has not been approved.
Outcome 2:		2.1.1 Feasibility study for the rehabilitation of Moroni's main water line and system	Completed in 2013
Water supply and water quality for	Output 2.1. Technologies to improve water access	2.1.2 Environmental and Social Impact Assessment for construction and rehabilitation works on three islands	Completed in 2013
selected pilot	and quality that mitigate climate change risks	2.1.3 Feasibility study for the reservoirs and harvesting structures in Anjouan	Completed in 2013
communities to combat impacts of climate	niloted e.a. soil	2.1.4. Feasibility study on the implementation of a water piping network for drinking and agricultural purposes in Moheli	Completed in 2013
change improved.		2.1.5 Feasibility and ESIA for the rehabilitation and construction of water conservation structures for agriculture in Bandassamlini Sangani and Hamalengo (Grance Comore)	Completed in 2013
		2.1.6 Conduct rehabilitation works for the Moroni water network	Partially done only due to budget

Outcome	Outputs	Activities	Progress
			constraints.
		2.1.6b Conduct rehabilitation works for Bandassamlini and surroundings	Partially done only due to budget constraints.
		2.1.7 Conduct rehabilitation and piping works in Anjouan	Partially done only due to budget constraints.
		2.1.8 Conduct water mobilization and conservation works in Moheli	Done, shared with the CRCCA project.
		2.1.9. Work supervision and develop a replication plan	Work has been supervised.  Replication plan not elaborated.
		2.1.10 Develop indicators and targets to measure adaptation in the water sector	Not done.
	Output 2.2. Community members trained to	2.2.1 Establish and train a water management committee in Ngazidja under supervision of MAMWE	Not clear whether that has been done.
	manage adaptive water interventions sustainably.	2.2.1b Assess previous experience on water treatment and propose adapted and replicable technologies for water quality control and treatment	Not clear whether that has been done.
		2.2.2 Train MAMWE technical staff in charge of operations and maintenance (chlorination, pump maintenance, leak detection)	The Ma-Mwe director reported that the staff has been trained in soldering of HDPE pipes.
		2.2.3 Capacity development for local water stakeholders towards a sustainable management of rehabilitated water structures	Done.
		2.2.4 Introduce technologies for water potabilization and treatments at local level, including ecological sanitation systems (Mbatse, Hoani and Lingoni-Pomoni)	Slow filters have been installed in both sites.
		2.3.1a finalize the state of reference on agricultural planning and perform participatory species selection for reforestation works (formerly part of 2.1.5)	Reportedly completed in 2014. Report not received.
	2.3. Degraded agricultural	2.3.2 Elaborate a land use plan in each site	Completed in 2014.
	and forested lands in pilot sites are the object of sustainable land use plans and vegetative cover increases (UNEP)	2.3.3. Train and support communities during reforestation using an agro-sylvo-pastoral approach that promotes resilience	Completed in 2014
		2.3.4 Participatory reforestation within communities in the framework of the national campaign ""1 Comorian, 1 tree"	Completed in 2014
		2.3.5 Training and support to producers towards the sustainable and resilient land use for agriculture (Bandassamlini and Nioumakele)	Completed with Flemish Funds in 2016.
Outcome 3: Awareness and	Output 3.1. Knowledge products developed on	3.1.1 compile project results and identify potential barriers to their replication	Planned for Q4 of 2016 at project closure. <b>Not done.</b>

Outcome	Outputs	Activities	Progress
knowledge of adaptation good practice for continued	lessons learned for policy makers, communities and donors throughout the project.	3.1.2 Launch and disseminate knowledge products and communications products	Some communication products have been produced (caps, t-shirts, pamphlets).
process of policy review and		3.2.1 Create a parliamentary working group and organize seminars on risks posed by climate change	<b>Not done</b> , as the Water Code has not been approved.
development increased.		3.2.2 organize national workshop and 3 islands workshops for the dissemination of project lessons and results	Not done.
	Output 3.2. Learning disseminated through	3.2.2a Inception workshop	Completed in 2012
	platform for national	3.2.3 Organize community workshops on the project	Done
	learning and sustainability.	3.2.4 Publish workshop reports and distribute documents	Done
		3.2.5 Publish a monthly newsletter, newspaper articles, pamphlets and other documents on the project	Some materials produced. Copies not received.
		3.2.6 intervene through local media (radio, TV)	Done
	Output 3.3 Disseminate Comorian experience in	3.3.1 Create, validate and launch project website	Website was launched and functioned for 2 years (2013-2014).
	knowledge networks related to water and	3.3.2 compile information and technical documents and submit them to various networks	Not done
	climate change, including ALM, GAN and IW Learn.	3.3.4 develop a document summarizing project lessons for publication in an academic journal and presentation at an international conference	Not done

#### ANNEX VI. INDICATORS, TARGETS AND ACHIEVEMENTS

	Indicator	Baseline	Target	Assessment UNDP/UNEP PIR	Assessment evaluator
Obje ctive	1. The percentage change in vulnerability of men and women living in the pilot sites to climate change risks on availability of clean water.	Moroni: rating of 4 (on a scale of 1-5): quite vulnerable; Plateau Djandro in Moheli: rating of 4 on average for four villages; Lingoni-Pomoni in Anjouan: rating of 4: quite vulnerable; High Nioumakele in Anjouan: rating of 4: quite vulnerable; Bandamsamlini: rating of 3: moderately vulnerable.	Rating to be improved to 2: Not very vulnerable	UNDP: Rating of 2 achieved for all 5 sites UNEP: Not measured	The baseline study VRAs have not been repeated end-project (the UNDP ratings is a desk assessment). The evaluator has only been able to talk to randomly selected community members.  The evaluator assessment is that the vulnerability has been reduced, but taking into account the limitations of the water supply schemes installed, a rating of 2 appears somewhat optimistic.
Outc ome 1	2. Number of policy documents at the Union decisional level, the island decisional level and the community/local level revised or elaborated to include regulations and provisions that promote gender equitable adaptation in the water sector.	Water Act for the Union of Comoros does not have any regulations for application. There is one environmental law and environment strategy, but lack of regulation for adaptation. The Comoros agricultural strategy dates back from 1994 and has not been implemented. Water management is only considered from the point of view of intensification, not rainfall scarcity or intensification of rainfall.	a. The Water Act is revised and includes regulations and provisions that promote gender-equitable adaptation. b. One water programme with priority actions by 2030 is elaborated by the end of the project. c. Water Acts at the local level in the pilot sites in Moheli and Anjouan are revised to include regulations and provisions that promote gender-equitable adaptation	UNDP: Since the revision of the water code was done by another project financed by the AfDB, this project contributed only for the inclusion of the climate change dimension in the document. Another revision that will take into account the Gender dimension needs to be done.  UNEP: No formal measurement of outcome indicator yet	a. The Water Act has been revised (PAEPA project). The quality is questionable and there is still a long way to approval. b. Not achieved c. There are no local Water Acts, but the project has elaborated standard regulations for water management committees which can be used locally. The evaluator assessment is that some progress has been made regarding the policy framework, but that there is still a long way to go.
	3. The number of policy-makers and planners at the Union and island levels using	Policy makers and planners at the Union and Island levels do not currently integrate	By the end of the project, at least the following numbers of planners are using adjusted processes and methods, in	UNDP: 12 planners use methods adjusted to take climate change into consideration in order to develop water management	It is not clear what exactly UNDP is basing the assessment on. The evaluator has not been able to establish a clear assessment on this from the interviews.

	Indicator	Baseline	Target	Assessment UNDP/UNEP PIR	Assessment evaluator
	adjusted processes and methods (eg collecting water data and climate data, modelling climate trends and monitoring water quality and supply) to develop gender-equitable water management policies that integrate climate change projections.	knowledge of climate change into policies related to water and agriculture and they lack capacities to collect water data, to model climate change and to monitor water quality and supply. At the Union level there are a total of 20 policy makers and planners.	terms of collecting water and climate data, modeling climate trends and monitoring water quality and supply, to develop water management policies that integrate climate change projections: 7 policy makers and planners at Union level, 5 in MaMwe; 10 in ANACM; 3 in the Directorate of Environment in Moheli; 5 in the Directorate of Environment in Anjouan; 2 in UCEM and 7 in UCEA,	policies UNEP: No measurement yet.	The tentative evaluator assessment is that there is clear progress in ANACM (collection of data, modelling and analysis), and that there is a more widespread awareness in the institutions (DGEME and DGEF) about the need to improve in the management and integration of data related to climate in general and climate change in particular. There is furthermore a nascent interest in IWRM.
Outc ome 2	4. Overall perception of the population per pilot site on: i) the daily quantity of water accessible for domestic uses ii) the facility of access to this water and iii) the quality of the water used (as per WHO standards) on a rating of 1-4 (1 = very satisfied, 2 = satisfied, 3 = unsatisfied, 4 = very unsatisfied).	Moroni: Quantity = 3, Access = 3, Quality = 3; Djandro: Quantity = 4, access = 4, Quality = 4; High Nioumakele in Anjouan: Quantity = 3, Access = 2, Quality = 3; Lingoni=Pomoni in Anjouan: Quantity = 2, Access = 4, Quality = 3.	Raise the rating to 2 for all three criteria across all project sites.	UNDP: Moroni: Quantity = 2, Access = 2, Quality = 2; Mbatse-Hoani: Quantity = 2, access = 2, Quality = 2; High Nioumakele: Quantity = 3, Access = 2, Quality = 2; Lingoni=Pomoni: Quantity = 1, Access = 2, Quality = 2 UNEP: No rating	As mentioned, the baseline study VRAs have not been repeated end-project (the UNDP ratings is a desk assessment). The evaluator has only been able to talk to members of the water committees.  The evaluator assessment is that (a) the quantity of water has increased, but due to the old distribution network, this is not fully noticeable to the users, (b) the quality has probably improved at the two sites where slow filters have been installed, but that quality measurement has not been carried out. (c) Access has only improved where increased water pressure has returned water to sectors connected, but where the water did not reach before. Access is still a major problem in Moroni, Hoani-Mbatsé and probably Lingoni-Pomoni. The UNDP rating therefore appears rather optimistic.
	5. Number of surviving trees in reforested areas.	The GDT project has planted 10000 fruit and forest trees in Lingoni-Pomoni. None in Bandasamlini. There are no protection measures for forests currently.	2 sites of 95ha each to be reforested (Bandasamlini & Lingoni-Pomoni). At 1000 trees/ha = 180,000 trees. Target is an 80% survival rate which gives 144,000 living trees by the end of the project.	UNEP: Reforestation campaigns during end 2015 and 2016 have achieved a total planting of an additional 67,152 trees (67 ha), with a reported 'good' survival rate. The total tree planting directly attributed to the LDCF project is thus around 140 ha	The evaluator assessment is that the survival rate of the reforested communal areas is very low, in some cases 0. The survival rate at private farms is much higher, particularly for the fruit trees (up to 80% in Bandasamlini). A more complete assessment is not possible due to lack of monitoring data.

	Indicator	Baseline	Target	Assessment UNDP/UNEP PIR	Assessment evaluator
Outc	6. Percentage of men	Currently knowledge on	By the end of the project, at	UNDP: 40% of the population	As no measurement has been made,
ome	and women (public and	specific climate change	least 30% of the population	within pilot sits and 70% of	neither for the baseline, nor for the end-
3	decision makers)	risks and adaptation	within pilot site communities	decision-makers have better	project situation, it is difficult to assess. It
	aware of climate	options is low among the	are aware of climate change	knowledge on climate change	is not clear what the 10% baseline value is
	change vulnerability	public and decision-	impacts and adaptation	impacts and adaptation options.	arrived at, neither how UNDP makes its
	and adaptation	makers. It is estimated	options.	<b>UNEP:</b> Progress on awareness	assessment of the 40%.
	responses.	that 10% of decision	Mid-way through the project, at	has not yet been measured.	With these caveats, the evaluator
		makers and less than 5%	least 10% of the population		assessment is that there is an increasing
		of the population in the	within pilot site communities		awareness of the impact of climate
		pilot sites know much	are aware of climate change		change, as this was mentioned by many
		about climate change	impacts and adaptation options		of the interlocutors. This is no doubt an
		and adaptation.	based on their involvement with		effect of this and many other campaigns
			pilot site interventions.		and projects related to climate change.
	7. Number of	Except for the National	By the end of the project,	<b>UNDP:</b> This work is in progress,	The evaluator has seen a few
	newspaper articles,	Communications and the	project lessons are distributed	a number of communications	communication products but has not
	booklets and	NAPA there are currently	in hard copy (e.g. pamphlets,	products have been produced.	received a list of what has been
	pamphlets highlighting	no available documents	briefing notes, newsletters,	<b>UNEP:</b> A number of	produced. If a distinction is made
	lessons learned during	and reports about good	booklets etc), electronically	communication products have	between (a) general communication
	the project and # of	practices on climate	(e.g. via the project website),	been produced in the reporting	products on climate change and the
	technical documents	changeA and water in	via radio broadcast and via one	period.	project, and (b) technical documents for
	on lessons learned	Comoros.	national and three island-level		knowledge networks, the evaluator
	submitted to		workshops.		assessment is that the general
	knowledge networks.		Mid-way through the project, a		communication (a) has probably been
			project website is operational		covered quite well, but more specific
			and is regularly updated with		technical information (b) has not been
			project information.		covered at all.

#### ANNEX VII. DEBRIEFING PRESENTATION

Below is a handout of the presentation made by the consultant at the UNDP Office in Moroni on Saturday 11 March 2017, before the consultant left the Comores. 50

<sup>50</sup> It should be mentioned that the presentation erroneously refers to the PAEPA project as PADEA. Is should thus read PAEPA.

#### RESTITUTION

# ÉVALUATION FINALE DU PROJET ACCE

Moroni, 11 mars 2017



### Introduction

- L'objectif de l'évaluation finale du project ACCE est de:
- Fournir d'évidence sur les résultats du projet pour ainsi assurer la redevabilité
- Promouvoir l'apprentissage et le partage des leçons tirés du projet pour le Gouvernement de l'Union des Comores, le PNUD, le PNUE et le FME (GEF)

# La théorie de changement

- Les TdR exigent que la Théorie de Changement (TdC) soit utilisé comme méthodologie.
- En plus, pour évaluer la probabilité de que le projet va atteindre l'impact escompté, il faut utiliser la méthodologie du GEF appelé ROti
- En prenant en compte que le document du projet n'utilise pas la TdC, l'évaluateur doit déduire la TdC implicite selon le Doc. du Projet et présenter et discuter cette TdC avec le partenaires

#### La théorie de changement (2)

La TdC est étroitement liée au Cadre Logique:



- La TdC met l'accent sur une explication sur le chemin ou sentier entre les différents niveau.
- On va revenir sur ce sujet à la fin de le présentation.

#### Activités réalisées

- · Est-ce qu'on a réalisé les activités planifiées ?
- Le projet a 2 grands domaines d'intervention: (i) renforcement des institutions du secteur, et (ii) des 5 projets pilotes liés à deux « outcomes » (effets).
- Concernant le premier domaine il y a eu plus de changements en comparaison avec les plans originaux.

### Activités réalisées (2)

- Les principales activités liées au premier produit (1.1) on été réalisées (les stations météorologiques, la conversion des données, la formation du personnel de l'ANACM).
- L'activité 1.1.4 introduite en substitution de 3 autres activités après l'évaluation de mi-parcours n'a pas été réalisé (une étude exhaustive).
- Il est entendu que la modélisation hydrologique n'a pas été réalisée pour manque de donnés, y compris la formation.

### Activités réalisées (3)

- Les activités liées au nouveau Code de l'Eau on été éliminées en prenant en compte que le projet PADEA avait prévu des activités similaires (étude du cadre légal et institutionnel et l'élaboration d'une proposition d'un nouveau Code).
- Il est entendu que les activités dérivées du nouveau Code ont également été éliminées (formation des décideurs, établir un comité interministériel, formation sur recouvrement des coûts d'exploitation des AEP etc.)

#### Activités réalisées (4)

- Les activités liées au 5 projets pilotes ont été réalisées, mais dû à la sous-estimation des coûts dans le Doc. du Projet, les activités ont été réduites.
- Il est entendu que les activités dérivées du nouveau Code ont également été éliminées dans la composante 3.

# Les produits

- Le produit 1.1 (meilleure disponibilité de donnés sur les risques liés aux CC) a été atteint.
- Le produit 1.2 (meilleure capacité d'évaluation des ressources en eau) a été atteint.
- Le produit 1.3 (modélisation hydraulique) n'a pas été atteint.
- Les produits 1.4 1.6 (cadre légal amélioré) ont été partiellement atteints, mais principalement dû au PADEA.

### Les produits (2)

- De manière général on peut dire que les produits du deuxième domaine (les 5 projets) on été partiellement atteints (en prenant en compte les fonds insuffisants).
- La réduction de la portée des projets implique que les effets des projets ont été réduits, mais toutefois l'approvisionnement en eau a amélioré.
- La restauration des terres dégradées à travers le reboisement et systèmes sylviculture et pâturage a été partiellement atteinte.

### Les produits (3)

- Concernant le troisième domaine (« outcome »), il n'est pas claire quel sont les produits qu'on a atteint.
- On a produit des matériaux de diffusion généraux pour conscientiser l'opinion publique à l'importance des CC.
- Cependant, l'évaluateur n'a pas vu des matériaux d'apprentissage. On a utilisé les réseaux globaux comme ALM, GAN, Integrated Water Learn du PNUD, comme il est mentionné dans le DP?

### La pérennité

- Concernant les produits du premier domaine, le travail de l'ANACM avec les donnés de CC est considéré durable.
- Il reste beaucoup à faire pour améliorer le cadre légal et institutionnel (avec les produits du PADEA). Il n'est pas clair qui va faire le suivi.
- Concernant la gestion des ressources en eau il y a un nouveau projet du PNUE-GEF sur bassins versants qui peut assurer un certain niveau de continuité.

# La pérennité (2)

- Concernant les projets pilotes, ils ne peuvent pas être considéré durables. Il y a un besoin urgent de mettre en place un système d'entretien et de recouvrement des couts d'exploitation.
- A défaut de cela, les systèmes AEP ruraux installés se dégraderont dans quelques années.
   C'est également le cas pour le projet avec MaMwe à Moroni.
- Le problème est aggravé pour le fait que les projets sont incomplets.

# La pérennité (3)

- Le reboisement communautaire en général n'est pas durable. Une grande partie de ce reboisement réalisé est d'ores et déjà perdue.
- Le reboisement dans les parcelles privées est plus durable. C'est également le cas pour la promotion des systèmes de production durables avec les producteurs agricoles.
- Concernant les AEP, il est entendu que le PNUD est en train d'appliquer pour un projet au Fonds Vert qui permettrai de compléter les projets pilotes, y compris le projet à Moroni.

# La pérennité (4)

 L'introduction d'arrosage goutte-à-goutte n'a pas fonctionné comme il était prévu, et les systèmes ont été abandonnés après la première année de mis en place. Les paysans affirment que c'est un problème de la qualité des matériaux foumis, mais ce n'est pas clair.

#### Conclusions

- Les résultas de la première composante sont limités, mais on a réussi améliorer substantiellement les services de l'ANACM.
- Le projet a réussi un bon rapport avec les communautés bénéficiaires des projets pilotes ce qui a contribué aux résultats. Le processus de planification a été participatif.
- Il y a en général un bon rapport entre coût et produits concernant les projets pilotes. On a atteint des résultats avec un budget limité. Les constructions sont en général d'une qualité acceptable.

# Conclusions (2)

- Le principal défi des projets pilotes est la gestion des systèmes AEP pour assurer l'entretien et par conséquant la pérennité.
- Il est considéré prémature de chercher la replication des projets pilotes dû au fait qu'il reste encore beaucoup des défis à résoudre.
- Les activités de reboisement ont plus de possibilité de réussite si on peut mettre en valeur les arbres pour les propriétaires.

### Conclusions (3)

- Le système de Suivi-Evaluation n'a pas été satisfaisant. Les rapports (PIR) ne reflètent pas bien le progrès el le défis.
- Un système de S-E ne doit pas être vu comme un système pour le rapportage seulement, mais plutôt comme un instrument de gestion.

#### Recommandations

- Il est recommandé au PNUD et au PNUE de chercher de fonds pour completer les projets pilotes. On doit s'assurer que les projets soient complets, y compris les branchements aux ménages et les compteurs.
- On doit conditionner un appui additionnel à la mise en place d'un système de gestion et entretien qui n'est pas basé seulement sur le volontariat.
- On doit également conditionner un appui additionnel à une claire manifestation des usagers de la volonté de paiement pour l'eau.

#### Recommandations (2)

- Le cas échéant, on doit conditionner un appui additionnel a Ma-Mwe à l'établissement d'une entreprise de l'eau autonomme (publique ou privée).
- Il n'est pas recommandé de conditionner l'appui additionnel aux AEPs ruraux à une modalité de gestion particulière, mais en prenant en compte le taille des système d'insister sur la professionalisation de la gestion et la manifestation de la volonté de paiement des usagers.

#### Recommandations (3)

- Si le PNUD et le PNUE réusissent mobiliser des fonds additionnels pour le secteur eau, il est recommandé d'appuyer la mise en place d'une Gestion Intégrale des Ressources en Eau (GIRE). Cependant, il faut être conscient que cela implique un effort de moyen à long terme.
- S'il y aura un appui additionnel à l'agriculture durable, il est recommandé de mettre l'accent sur l'aménagement dans les parcelles des paysans, en lieu de par exemple le reboisement communautaire.

#### Leçons tirés

- Quand on prépare des projets d'AEP, il est important pour la pérennité que:
- Les projets soient complèts, y compris le réseau de distribution, les branchements et les compteurs
- Les projets incluent explicitement la modalité de gestion et entretien, et que les systèmes qui passent d'une certaine taille en soient pas basés sur le volontariat.
- Les projets d'approvissionnement en eau pour des villes doivent être conditionné à la mise en place d'une entreprise specialisée et autonomme.

### Les leçons tirés (2)

- Dans le cas de reboisement communautaire il faut analyser d'abord bien la situation pour mieux comprendre les causes du déboisement. Si les causes sont encore là, le reboisement va continuer.
- Il y a toujour la possibilité de commencer pour protégér les zones qui ont besoin de reboisement et ainsi permettre le reboisement naturel. Cependant, il est possible qu'il existe des raisons sociales et economiques qui l'empèche.

# La théorie de changement

· La TdC est étroitement liée au Cadre Logique:



 La TdC met l'accent sur une explication sur le chemin ou sentier entre les différents niveau;



#### La théorie de changement (3)

- La difficulté principale quand on évalue des projets est normalement d'évaluer l'atteint des impacts escomptés
- C'est ici qui entre la méthodologie ROti Review of Outcomes to Impacts - Évaluation du Sentier des Effets aux Impacts.
- Pour ce faire on doit analyser ce qu'on pense peut passer pour y arriver – en passant pour des « résultats intermédiaires »

#### La théorie de changement (4)

- Les « résultats intermédiaires » plus importants sont à l'avis de l'évaluateur ;
- · Une solution au défi de la gestion durable des AEP
- La disponibilité des fonds pour les investissements nécessaires pour assurer la quantité et qualité de l'eau suffisantes
- Une meilleur cadre légal et institutionnel pour assurer une mise en place da la GIRE



#### ANNEX VIII. BUDGET AND ACTUAL EXPENDITURES

The evaluator has received the following table from the UNDP office in Moroni regarding budget and actual expenditures.

		Outcome1			Outcome2			Outcome3			Outcome4			Outcome5	
	Budget	Dépenses	Ecart	Budget	Dépenses	Ecart	Budget	Dépenses	Ecart	Budget	Dépenses	Ecart	Budget	Dépenses	Ecart
GEF	220,738.00	339,437.12	- 118,699.12	2,036,844.21	1,886,789.22	150,054.99	80,509.16	127,059.22	- 46,550.06	298,152.20	282,958.01	15,194.19	63,756.43	63,756.43	-
UNEP	415,270.00	346,458.28	68,811.72	414,143.00	414,143.00	-	145,740.00	145,740.00	-	10,000.00	8,000.00	2,000.00	35,500.00	-	35,500.00
					CO-FINANCEME	NTS									
PNUD	37,572.50	37,572.50	-	501,477.29	501,477.29	-	22,514.82	22,514.82	-	55,381.80	55,381.80	-	2,724.23	2,724.23	-
FLAMMENT	123,695.84	123,695.84	-	68,208.14	66,658.14	1,550.00	-	-	-	-	-	-	-	-	-

Based on this and the budgets indicated in the project document, the following tables have been computed:

#### BUDGET UNDP (From Project Document) AND ACTUAL EXPENDITURES (USD)

0.1		D. J. J.	B Bl.	Actual	Diff. With
Outcome / Component	Source	Budget	Rev. Budget	expenditure	original budget
Outcome 1: Institutions at a national (i.e. Ma-Mwe and ANACM) and	GEF	288,000	220,738	339,437	51,437
community (i.e. UCEA and UCEM)	UNDP co-financing	0	37,573	37,573	37,573
level strengthened to integrate climate change information into water resources management.	Flemmish Government	0	123,696	123,696	123,696
Total Outcome 1		288,000	382,006	500,705	212,705
Outcome 2: Water supply and water	GEF	2,078,000	2,036,844	1,886,789	-191,211
quality for selected pilot communities	UNDP co-financing	0	501,477	501,477	501,477
to combat impacts of climate change improved.	Flemmish Government	0	68,208	66,658	66,658
Total Outcome 2		2,078,000	2,606,530	2,454,925	376,925
Outcome 3: Awareness and	GEF	74,000	80,509	127,059	53,059
knowledge of adaptation good practice for continued process of policy review and development increased.	UNDP co-financing	0	22,515	22,515	22,515
Total Outcome 3		74,000	103,024	149,574	75,574
Ducinet Management	GEF	210,000	298,152	282,958	72,958
Project Management	UNDP co-financing	200,000	55,382	55,382	-144,618
Total project management		410,000	353,534	338,340	-71,660
Monitoring and Evaluation	GEF	70,000	63,756	63,756	-6,244
Monitoring and Evaluation	UNDP co-financing	0	2,724	2,724	2,724
Total Monitoring and Evaluation		70,000	66,481	66,481	-3,519
Sub-total (GEF)		2,720,000	2,700,000	2,700,000	-20,000
Sub-Total TRAC and other UNDP co- financing		200,000	619,671	619,671	419,671
Sub-total (Flemmish Government)		0	191,904	190,354	190,354
TOTAL		2,920,000	3,511,575	3,510,025	590,025

#### **BUDGET UNEP (From Project Document) AND ACTUAL EXPENDITURES (USD)**

Outcome / Component		Budget	Rev. Budget	Actual	Diff. With original budget
Outcome 1: Institutions at a national (i.e. Ma-Mwe and ANACM) and community (i.e. UCEA and UCEM) level strengthened to integrate climate change information into water resources management.	GEF	730,000	486,088	346,458	-383,542
Outcome 2: Water supply and water quality for selected pilot communities to combat impacts of climate change improved.	GEF	66,000	394,388	414,143	348,143
Outcome 3: Awareness and knowledge of adaptation good practice for continued process of policy review and development increased.	GEF	104,000	99,059	127,059	23,059
Project Management	GEF	90,000	9,965	8,000	-82,000
Monitoring and Evaluation	GEF	30,000	30,500	0	-30,000
TOTAL		1,020,000	1,019,999	895,661	-124,340

#### TOTAL BUDGET AND ACTUAL EXPENDITURES (USD)

Outcome / Component	Original budget	ACTUAL
Outcome 1: Institutions at a national (i.e. Ma-Mwe and ANACM) and community (i.e. UCEA and UCEM) level strengthened to integrate climate change information into water resources management.	1,018,000	847,164
Outcome 2: Water supply and water quality for selected pilot communities to combat impacts of climate change improved.	2,144,000	2,869,068
Outcome 3: Awareness and knowledge of adaptation good practice for continued process of policy review and development increased.	178,000	276,633
Project Management	500,000	346,340
Monitoring and Evaluation	100,000	66,481
	3,940,999	4.405.685

### Co-financing<sup>51</sup>

Co-financing (Type/Source)	UNEP own Financing (US\$1,000)		Government (US\$1,000)		Other* (US\$1,000)		Total (US\$1,000)		Total Disbursed (US\$1,000)
	Planned	Actual	Planned	Actual	Planned	Actual	Planned	Actual	
- Grants									
- Loans									
- Credits									
<ul><li>Equity investments</li></ul>									
- In-kind support									
- Other (*)									
-									
-									
Totals									

<sup>\*</sup> This refers to contributions mobilized for the project from other multilateral agencies, bilateral development cooperation agencies, NGOs, the private sector and beneficiaries.

Financial manage	ement components	Rating	Evidence			
Attention paid to	compliance with procurement rules and regulations	N/A				
Contact/commun	Contact/communication between the PM & FMO					
PM & FMO knowl	PM & FMO knowledge of the project financials					
FMO responsiven	ess to financial requests	N/A				
PM & FMO respon	nsiveness to addressing and resolving financial issues	N/A				
Were the	following documents provided to the evaluator:					
A.	A. An up to date co-financing table					
В.	B. A summary report on the projects financial management and expenditures during the life of the project - to date					
C.	A summary of financial revisions made to the project and their purpose	Y/N	Yes			
D.	Copies of any completed audits	Y/N	No			
Availability of pro	ject financial reports and audits	N/A				
Timeliness of pro	ject financial reports and audits	N/A				
Quality of project	Quality of project financial reports and audits					
FMO knowledge	FMO knowledge of partner financial requirements and procedures					
Overall rating	Overall rating					

<sup>&</sup>lt;sup>51</sup> Information was not provided



Lingoni-Mbatsé water supply scheme. New (right) and old (left) water reservoir. As the new reservoir has few connections, it overflows into the old reservoir (black, upper pipeline) making more water available for the existing distribution system.



New public stand-post, Mbatsé



River crossing for the partially rehabilitated transmission main, Nieumakélé



Fomboni-Mbatsé. Reforestated river bank with little left.



Macro-meter, Moroni water scheme



Airing valve, Moroni water supply project.



Slow Filter, Lingoni-Hoani water supply scheme. The covers turned out to be too heavy to manage. The plan is to substitute them with lighter covers.



Rehabilitated intake, Lingoni-Hoani water supply scheme



Contour farming on steep slopes, Lingoni. Farmer-Promoter "Sandi".



Contour farming, Bandasamlini



Stakeholder meeting at Fomboni, CRDE

#### ANNEX X. STAKEHOLDER ANALYSIS

This stakeholder analysis is limited mainly to the institutions that the evaluator has had the opportunity to meet. Other institutions mentioned in the project document are the National Farmers Association (FNAC) and the National Institute of Research in Agriculture and Fisheries (INRAPE). In the case of FNAC, it turned out to be impossible to set up a meeting. Anyway, they are only related to the sustainable agriculture part of the project, which is a minor component. In the case of INRAPE, a meeting was set up, but the director was occupied, and after waiting for an hour, the evaluator decided to cancel the meeting.

Stakeholder	Responsibility/Role	Mandate	Interest	Influence	Rating explanation	Capacity and Constraints
Union Level				1		
DGEME	After the shift in Government in mid 2016, the Directorate is now under the Vice-Presidency/ Ministry for Production.  DGEME is responsible for the development of policy and regulation for the sector.  It is also responsible for the elaboration of investment plans and for the coordination of the different actors intervening in the sector and for securing the quality of the interventions.  It is in principle project owner ("maître d'ouvrage") for projects within the sector.	High	Medium	High	The Directorate has direct access to the Vice-President/Minister for the sector and hence to the Presidency.  The proposal for new Water Act is presently in the Ministry where it is under revision. It is the impression that water is not the top priority as the problems in the electricity sector are seen as more pressing.	The Directorate has very limited human resources It has a limited budget and is dependent on projects being implemented through the Ministry
DGEF	The responsibility of the Directorate for the Environment and Forest is to: Protect the environment and control pollution Regulate and require Environmental Impact Assessment Studies Monitor the environment Specifically for the water sector, promote the rational use of water, define quality parameters and permits for discharge of wastewater	High	High	Low	Even if the Directorate has the formal mandate to regulate the environmental sector and hence a strong mandate within climate change adaptation, it has limited leverage.	The Directorate has few own resources and is very dependent on projects being carried out through the Directorate
ANACM	ANACM is responsible for carrying out the public policy in the area of Civil Aviation and Meteorology.  Because of its role in the gathering and analysis of meteorological data, it has become a key agency when it comes to data collection and analysis related to disaster prevention and the adaptation to the future impact of climate change and.	High	High	High	ANACM has a clear mandate within data collection and climate change	The meteorological division has competent and stable technical staff As ANACM it has income from its aviation activities, it has a relatively stable economy The meteorological division has technical support from both ASECNA and the World Meteorological Organisation.

Stakeholder	Responsibility/Role	Mandate	Interest	Influence	Rating explanation	Capacity and Constraints
Ma-Mwe	Ma-Mwe has a double subordination: technically under the Ministry of Energy and financially under the Ministry of Finance.  It has the responsibility of production and distribution of energy and water at national level. In reality it provides energy and water in Grande Comore only, and energy in Mohéli.	High	Medium	High	The institution has a very extensive mandate within water in the case of Grand Comore, so it is in principle a powerful stakeholder. However, the energy part of its mandate is given priority and that is also where the main income is generated.	The water division has a relatively good technical capacity. Very limited financial resources. The activities of energy and water are not separated and its accounts are not public. It only recovers around 60% of the costs within energy and 15-20% within water Its board has never been functional
Ministry of Public Health	The Ministry is in charge of policy formulation within hygiene and sanitation. The Directorate for Sanitary Education and Social-Sanitary Action has a department for water that is in charge of the control of water quality.	High	Low	Low	The Ministry has the mandate but not the resources to control the water quality. There is therefore in practical terms no control of public water quality, except when there are epidemics.	The Ministry does not have the funding to fulfil its mandate and does not even have a water laboratory.
University of Comores	The University, created in 2003, has a faculty for science and technique and a Faculty of Medicine and Public Health. It has a water laboratory in Moroni (in La Corniche).	Low	High	Medium	The main interest of the University is in water quality, which they consider is not given the priority needed (generally next to no treatment, no chlorination, no water quality control)	Qualified technical staff and a well equipped water laboratory Strong interest in the issue of water quality.
Island level						
Regional Directorates for the Environment	This is a decentralised authority, which depends on the (elected) Governor (after the federalisation of in 2009).  The precise mandate within climate change and water supply is not clear	Medium	High	Medium	Formally, climate change and water provision is within their mandate, It is not well defined but seems to be a more overall level (plans and policies) It does not seem that they generally are involved directly in externally financed projects, which constitute an important source of finance.	Very limited staff and financial capacity
Island Commissariats for Production	This is a deconcentrated authority, which depends on the line ministries. The commissariat has different directorates (Agriculture, Environment, Water and Energy, Fishery etc.), which have a double subordination	Medium	High	Medium	Formally, climate change and water provision is within their mandate. Their precise role is not well defined. It does not seem that they	The Commissariats have a quite extensive staff in the different directorates. However, within water it is very limited.

Stakeholder	Responsibility/Role	Mandate	Interest	Influence	Rating explanation	Capacity and Constraints
	under the line Ministry and the Governor, The precise mandate within climate change and water supply is not clear				generally are involved directly in externally financed projects, which constitute an important source of finance.	
UCEA-UCEM	The Unions of Water Committees have formally received a mandate as delegated Project Owners for water projects (maitres d'ouvrage déléguées), and particularly AFD is cooperating with these to carry out projects within the water sector. They are furthermore formally responsible for the management of community water supply schemes.	High	High	High	Even if the mandate is partly overlapping with other institutions, they are in practice involved in many community water projects, particularly responsible for setting up and training the Water Committees	The Unions have competent staff within water supply and water supply management. Their main weakness is their dependence on externally financed projects for their operation. This implies that they are in practice only supervising water supply schemes within the framework of externally financed projects.
Community leve		1	1			
The Municipalities	The municipalities are responsibility for the local water supply, sanitation and the environment, so formally they have an important mandate within climate change and water supply.	High	High	Medium	The municipalities have a quite extensive mandate, and water is of high priority in the communities. However, as a new institution their influence is still limited.	As the municipalities were created recently with the law on decentralisation from 2011, they are still a very incipient institution with little capacity and very limited financial resources.  Even so, depending on the mayor, they can have a quite influential role e.g. in organising the operational model for the water supply system.
Water Management Committees	The water management committees ("Comités de Gestion de l'eau") are responsible for the management of water supply schemes at community level – delegated from the Unions of Water Committees).	High	High	High	They are in practice in charge of the water supply schemes. So the schemes depend crucially on the functioning of these committees. Where they work, the system is maintained to some extent. Where they are not, the schemes are deteriorating.	In general they have serious problems operating the systems, and in particular to collect payments from the users. This is partly due to their limited capacity and partly due to a culture of nopayment for water.

#### ANNEX XI. ASSESSMENT OF THE OVERALL QUALITY OF PROJECT DESIGN

Α.	Project Context and Complexity		YES/NO	Comments/Implications for the evaluation design (e.g. questions, TOC assumptions and drivers, methods	Section Rating <sup>52</sup> : 5	
1	Does the project face an unusually challenging	i)Ongoing/high likelihood of conflict?	No	and approaches, key respondents etc)  The Comoros has been prone to conflicts and coups since stable since 2008 with peaceful handing over of power after on in 2016.		
	operational environment that is likely to negatively affect project performance?	ii)Ongoing/high likelihood of natural disaster?	Yes	The Comoros are very vulnerable to climatic events, particularly floods damaged roads and social infrastructure, of the population was affected. The 2014 Cyclon Hellen had caused far more damage in Madagascar and Mozambique	including water supply. Around 10% d some impact in Comoros but	
		iii)Ongoing/high likelihood of change in national government?	Yes	There was a change in Government in 2016 and as the winning candidate's lead was very narrow in the second round, it led to widespread protests, particularly in Anjouan. However, impact on the project implementation was limited as most activities had been completed.		
В.	Project Preparation		YES/NO	Comments/Implications for the evaluation design (e.g. questions, TOC assumptions and drivers, methods and approaches, key respondents etc)	Section Rating: 4	
2	Does the project docu problem analysis?	ment entail a clear and adequate	Yes	The vulnerable ecology compounded by rapid population gractices are described, and the additional challenges pres on rainfall (longer dry seasons) and temperature rise.		
3	Does the project docu situation analysis?	ment entail a clear and adequate	Yes	There is a quite thorough description of the context (economy, politics, geography and climate change challenges) and the policy response to CC (the NAPA process). The barriers to solutions are identified as limited knowledge and expertise, inadequate policy framework and financial constraints. The main weakness is an insufficient discussion of possible conflicting interests between stakeholders and the difficulties related to enforcement.		
4	Does the project docu stakeholder analysis?	ment include a clear and adequate	No	According to the UNEP PD, the five pilot sites were identified through an intensive consultate process held at the national, island, and community levels. During the Inception Workshop (hon 24 September 2009 in Moroni) with all stakeholders (national level), teams of stakehold from different sectors (including stakeholders from different islands) identified the regions m		

Rating system for quality of project design and revision. A number rating 1-6 is used for each section: Highly Satisfactory = 6, Satisfactory = 5, Moderately Satisfactory = 4, Moderately Unsatisfactory = 3, Unsatisfactory = 2, Highly Unsatisfactory = 1. The overall quality of the evaluation report is calculated by taking a weighted mean score of all rated quality criteria, see below. (For Project Context and Complexity, replace 'un/satisfactory' with 'un/likely')

			vulnerable to climate change impacts. Scoring Workshops were held on each island. The public institutions involved are described and their technical limitations are emphasised. The responsible institutions and the partners for each of the project outputs are listed in a table, and there is in Annex 17 a Stakeholder Involvement Plan. There is, however, not a description of the roles and interests of the different stakeholders.				
5	If yes to Q4: Does the project document provide a description of stakeholder consultation during project design process? (If yes, were any key groups overlooked: government, private sector, civil society and those who will potentially be negatively affected)		Yes	As mentioned above, an inception workshop was held with a scoring workshops as each Island. During project preparation The minutes from the validation workshops are included as	on validation workshops were held. Annex 18 in the PD.		
6	Does the project document identify concerns with respect to human rights, including in relation to sustainable development?	i)Sustainable development in terms of integrated approach to human/natural systems	No	The term "human rights" is not used in the PD. However, it is assist in the realization of the goals set out in the Poverty R (PRGS, 2009), with has sustainable development, including major focus of the strategy with increasing water supply, im integrated coastal management being three of the seven pri	Reduction and Growth Strategy g protection of the environment, as the mproving soil productivity and		
		ii)Gender	Yes	It is mentioned that "efforts to promote gender equity will all project's activities", but there is no description of how this wof the indicators.	I also be integrated in all aspects of the		
		iii)Indigenous peoples	N/A				
С	Strategic Relevance		YES/NO	Comments/Implications for the evaluation design (e.g. questions, TOC assumptions and drivers, methods and approaches, key respondents etc)	Section Rating: 4		
7	Is the project document clear in terms of its relevance to:	i) UNEP MTS, PoW and Sub-programme	No	The PD makes reference to UNDAF, Outcome 4, namely: "By preserved and ecosystem services they provide are valued fincluding communities dependent on natural resources for tof the UNEP Medium-term Strategy 2010—2013.	for the benefit of the population,		
		ii) Regional, Sub- regional and National environmental issues and needs?	Yes	The PD makes reference to the INC (2002) and the NAPA (2 as being the second most vulnerable sector to CC.	006), which listed the water sector		
		iii) The relevant GEF focal areas, strategic priorities and operational programme(s)? (if appropriate)	Yes	It is stated in the PD that the project conforms to the LDCF undertaking a country driven and participatory approach; ii) iii) supporting a "learning-by-doing" approach; iv) undertaking promoting gender equality; and vi) undertaking a complementated that the project has been designed to meet overall Gimplementation and design, e.g. sustainability, replicability,	n; ii) implementing the NAPA priorities; aking a multi-disciplinary approach; v) ementary approach. Furthermore, it is all GEF requirements in terms of		
		iv) Key SDG <sup>53</sup> goals and targets	Yes	The PD is from before the SDG so reference is made to the resultant improved access to drinking water will be a key el	ence is made to the MDG. The PD states that the		

53 Depending on the date of project approval and type of intervention the MDGs (2015) or Aichi Biodiversity Targets (2020) may stand as alternatives to the SDGs (2030).

	Does the project address key cross cutting issues		No	positively affecting MDGs 4 and 6 and 7. It is considered th contribution is to Target 7C of MDG 7 ("halve by 2015, the publication is to the principles of sustainable development into every nation also reverse the depletion of environmental resources").  Not mentioned in the PD nor implicitly included.	ne proportion of the population without itation") and Target 7A ("To integrate		
		Bali Strategic Plan	No	The Bali Strategic Plan is not explicitly mentioned. However Capacity Building in the project, it is clearly in line with the B			
D	Intended Results and Ca	·	YES/NO	Comments/Implications for the evaluation design (e.g. questions, TOC assumptions and drivers, methods and approaches, key respondents etc)	Section Rating: 5		
9	Is there a clearly present	ed Theory of Change?	No	The PD is based on a normal Logical Framework with no ex	oplicit mention of a Theory of Change		
10	services) through outcor behaviour) towards impa	from project outputs (goods and nes (changes in stakeholder acts (long term, collective change vincingly described in either the	No	However, the description of the pathway from the outcome objective is to reduce the risk of climate change on lives an resources in Comoros") is sketchy. To achieve the long-ten the water sector (strengthened through outcome 1) should framework, awareness should have increased (outcome 3) enforcement should come into place. Furthermore, the pilo sustainable (0&M, fee collection) for them to be candidates sources for increasing investment in the sector should have	asual pathway from outputs to outcomes is relatively clearly and convincingly described. ver, the description of the pathway from the outcomes towards impacts ("The project rive is to reduce the risk of climate change on lives and livelihoods from impacts on water rces in Comoros") is sketchy. To achieve the long-term impact, institutions responsible for ater sector (strengthened through outcome 1) should have improved the regulatory work, awareness should have increased (outcome 3) and an improved framework for cement should come into place. Furthermore, the pilot projects (Outcome 3) should be nable (O&M, fee collection) for them to be candidates for replication and financial		
11	each key causal pathway		No	The assumptions are very rudimentary (Sustained commitr sites have been well chosen and that CC concerns are not of			
12	described for each key c	rs and stakeholders clearly ausal pathway?	Yes	Lead institutions are identified for the different outputs.			
13	Are the outcomes realist and scale of the interven	ic with respect to the timeframe tion?	Yes	The project turned out to be somewhat underfunded, but as overlapping, it has been possible to achieve most of the ou			
E	Logical Framework and	,	YES/NO	Comments/Implications for the evaluation design (e.g. questions, TOC assumptions and drivers, methods and approaches, key respondents etc)	Section Rating: 4		
14	logical of Cha framework project		Yes	The logframe captures quite well the pathway from outputs	s to outcomes.		
		'SMART' indicators for outputs?	No	There are no indicators for the outputs.			
	ii)Have outcon	· 'SMART' indicators for nes?	Yes	The Outcome indicators were refined during a baseline study carried out in the beginning of 2011. There was a minor revision of some of the indicators after the MTR in 2014 to make more "Smart".			
15	Is there baseline informa performance indicators?		Yes	The 2011 baseline study defines the baseline values for 9 c	outcome indicators.		
16	Has the desired level of	achievement (targets) been	Yes	The 2011 baseline study includes target values for the outc	comes. The outputs are defined in		

	specified for indicators of outputs and outcomes?		the PD.		
17	Are the milestones in the monitoring plan appropriate and sufficient to track progress and foster management towards outputs and outcomes?	No	The 2011 baseline study only includes end-project values for		
18	Have responsibilities for monitoring activities been made clear?	No	It is stated in the PD that "M&E will be undertaken by the Project Support Staff (PSS) and the UNDP Country Office (UNDP CO) with support from UNDP/UNEP. UNDP will be the lead on all M&E with input provided by UNEP to ensure that there is one harmonized M&E report. The MTR pointed out that the M&E needed to be strengthened as an M&E staff post had been eliminated.		
19	Has a budget been allocated for monitoring project progress?	No	There is a budget for M&E (Annex 7 to the PD), which includes funding for the MTR and the Final Evaluation. An M&E Expert is mentioned as part of the technical team, but it is understood from the MTR that this post has been eliminated. The M&E expert is not part of the procurement plan in Annex 14 to the PD.		
20	Is the workplan clear, adequate and realistic? (eg. Adequate time between capacity building and take up etc)	No	There is a timetable for implementation in the PD (Annex 5) detailing outputs and activities.  There was some delays in the first two years which could be taken to mean that the implementation plan was not wholly realistic. One of the reasons for delay of the pilot projects was that it was decided to make a proper feasibility study, not foreseen in the original implementation plan (Even if it is mentioned in Annex 16 that "A financial and technical feasibility study followed by a detailed design phase will be carried out for the design of the water works."		
F	Governance and Supervision Arrangements	YES/NO	Comments/Implications for the evaluation design (e.g. questions, TOC assumptions and drivers, methods and approaches, key respondents etc)	Section Rating: 5	
21	Is the project governance and supervision model comprehensive, clear and appropriate? (Steering Committee, partner consultations etc.)	Yes	There is a clear governance set-up under a national executi (Steering Committee) is reported to have functioned adequent Technical Committee has not been functioning regularly.	lately. However, it is understood the	
22	Are roles and responsibilities within UNEP clearly defined?	Yes	The supervision has been carried out by a Task Manager at	t the UNEP Copenhagen office.	
G	Partnerships	YES/NO	Comments/Implications for the evaluation design (e.g. questions, TOC assumptions and drivers, methods and approaches, key respondents etc)	Section Rating: 5	
23	Have the capacities of partners been adequately assessed?	No	There is a description of each partner institution, but not a and needs.		
24	Are the roles and responsibilities of external partners properly specified and appropriate to their capacities?	Yes	The roles look well defined and seems to be in corresponded	·	
Н	Learning, Communication and Outreach	YES/NO	Comments/Implications for the evaluation design (e.g. questions, TOC assumptions and drivers, methods and approaches, key respondents etc)	Section Rating: 5	
25	Does the project have a clear and adequate knowledge management approach?	Yes	There is a component (Outcome 3) which is dedicated to k dissemination.	-	
26	Has the project identified appropriate methods for communication with key stakeholders during the project life? If yes, do the plans build on an analysis of existing communication channels and networks used by key	Yes	The Project Board is quite comprehensive and includes all ensure a relatively high level of communication.	key stakeholders, which should	

	stakeholders?			
27	Are plans in place for dissemination of results and lesson sharing at the end of the project? If yes, do they build on an analysis of existing communication channels and networks?	Yes	Se line 25.	
I	Financial Planning / Budgeting	YES/NO	Comments/Implications for the evaluation design (e.g. questions, TOC assumptions and drivers, methods and approaches, key respondents etc)	Section Rating: 4
28	Are there any obvious deficiencies in the budgets / financial planning at design stage? (coherence of the budget, do figures add up etc.)	Yes	According to the MTR, several budgetlines were underfund- Pilot Projects), as the Feasibility Studies had not been carri was possible to cover these gaps relying on other projects	ed out yet. It is understood that it
29	Is the resource mobilization strategy reasonable/realistic? (If it is over-ambitious it may undermine the delivery of the project outcomes or if under-ambitious may lead to repeated no cost extensions)	Yes	The main funding is parallel co-funding via other projects. Evaluator has not received information on whether this cofunding has actually materialised.	
J	Efficiency	YES/NO	Comments/Implications for the evaluation design (e.g. questions, TOC assumptions and drivers, methods and approaches, key respondents etc)	Section Rating: 5
30	Has the project been appropriately designed/adapted in relation to the duration and/or levels of secured funding?	No	As mentioned, the project has been extended for almost two years. It is understood that most of the activities have actually been carried out with much less delay, as the main delay has bee related to the pilot projects.	
31	Does the project design make use of / build upon pre- existing institutions, agreements and partnerships, data sources, synergies and complementarities with other initiatives, programmes and projects etc. to increase project efficiency?	Yes	The project uses the existing national institutions and has been coordinated closely with other similar projects, thus securing complementarities. It was e.g. planned in the PD to use HDPE pipes and a trench excavator donated by China for the main transmission line in Moroni.	
32	Does the project document refer to any value for money strategies (ie increasing economy, efficiency and/or costeffectiveness)?	No	No specific Value for Money considerations are mentioned beneficiary does not look excessive.	in the PD. However, the cost per
33	Has the project been extended beyond its original end date? (If yes, explore the reasons for delays and no-cost extensions during the evaluation)	Yes	Yes, almost two years. The main reason is delays in the implementation of the pilot projects (Outcome 2).	
K	Risk identification and Social Safeguards	YES/NO	Comments/Implications for the evaluation design (e.g. questions, TOC assumptions and drivers, methods and approaches, key respondents etc)	Section Rating: 4
34	Are risks appropriately identified in both the ToC/logic framework and the risk table? (If no, include key assumptions in reconstructed TOC)	No	There is a risk matrix in section 3.5 in the PD that is generally adequate. However, the risk of not being able to achieve cost-recovery in the pilot projects seems to be underestimated, both regarding probability and impact. This can have serious implications for the replicability.	

35	Are potentially negative environmental, economic and social impacts of the project identified and is the mitigation strategy adequate? (consider unintended impacts)	Yes	The risk of a negative social impact from raising the water tariffs is mentioned, but at the same time it is foreseen to provide poor families with subsidized water from standposts.		
36	Does the project have adequate mechanisms to reduce its negative environmental foot-print? (including in relation to project management)	Yes	It is mainly an environmental project which should improve the environment (reforestation, reduction of water losses).		
L	Sustainability / Replication and Catalytic Effects	YES/NO	Comments/Implications for the evaluation design (e.g. questions, TOC assumptions and drivers, methods and approaches, key respondents etc)	Section Rating: 4	
37	Was there a credible sustainability strategy at design stage?	No	The project has a strong element of capacity building at Un level, which aims at creating sustainability. However, even i recovery in the water supply systems is mentioned, and the level of 0&M before project intervention, it is not clear how financial sustainability will be approached, apart from more	lity. However, even if the question of lack of cost mentioned, and the project document stresses the low h, it is not clear how this challenge of operational and	
38	Does the project design include an appropriate exit strategy?	Yes	The project has a strong emphasis on capacity building, which does not imply permanent support to the institutions from the project.		
39	Does the project design present strategies to promote/support scaling up, replication and/or catalytic action?	Yes	The aim of Component (Outcome) 2 is to pilot water supply the catchment area, which can be replicated. A strategy for outputs, but it is not clear to the evaluator whether this stra	scaling up is one of the project	
40	Did the design address any/all of the following: socio- political, financial, institutional and environmental sustainability issues?	No	As mentioned, most of the emphasis has been on institutional capacity building, aiming for sustainability by overcoming the lack of properly trained staff. At community level the project implies awareness raising and training of local actors. However, it is not clear from the PD how the financial sustainability of the water supply will be approached.		
M	Identified Project Design Weaknesses/Gaps	YES/NO	Comments/Implications for the evaluation design (e.g. questions, TOC assumptions and drivers, methods and approaches, key respondents etc)	Section Rating: 5	
41	Were there any major issues not flagged by PRC?	No	The evaluator has not got the minutes from the PRC approval, but from the first presentation to the Project Approval Group (PAG). Among the issues were: (i) strengthening the reference to NAPA, ii) make sure outputs are quantifiable to the extent possible, and (iii) underlining the role of UNDP, some existing regional projects, NAPA experience and other work with UNDP.		
42	What were the main issues raised by PRC that were not addressed?	No	The issues mentioned above were addressed in the PD.		

#### ANNEX XII. QUALITY ASSESSMENT OF THE EVALUATION REPORT

All UN Environment evaluations are subject to a quality assessment by the Evaluation Office. The quality assessment is used as a tool for providing structured feedback to the evaluation consultants.

The quality of both the draft and final evaluation report is assessed and rated against the following criteria:

		UNEP Evaluation Office Comments	Draft Report Rating	Final Report Rating
Sub	stantive report quality criteria			
A.	Quality of the Executive Summary: Does the executive summary present the main findings of the report for each evaluation criterion and a good summary of recommendations and lessons learned? (Executive Summary not required for zero draft)	Draft report: The Executive Summary is concise, briefly introduces the project and the evaluation and summarises key points under most of the evaluation criteria, as well as presents summary of lessons and recommendations. Few small changes have been requested to add clarity. The Executive Summary should not include repeated paragraphs from the main body of the report, but present the key findings in new words.	MS	MS
		Final report: Executive summary is adequately presented.		
B.	Project context and project description:  Does the report present an up-to-date description of the socio-economic, political, institutional and environmental context of the project, including the issues that the project is trying to address, their root causes and consequences on the environment and human well-being? Are any changes since the time of project design highlighted? Is all essential information about the project clearly presented in the report (objectives, target groups, institutional arrangements, budget, changes in design since approval etc.)?	Draft report: The report presents a good description of the project. Stakeholder analysis should be strengthened and a few clarifications have been requested.  Final report: Project context has been adequately described.	MS	MS
C.	Strategic relevance: Does the report present a well-reasoned, complete and evidence-based assessment of strategic relevance of the intervention in terms of relevance of the project to global, regional and national environmental issues and needs, and UNEP strategies and programmes?	Draft report: Nearly all aspects of strategic relevance have been discussed. The assessment should also include human rights and vulnerable groups. Contribution to UN Environment Expected Accomplishment should be discussed.  Final report: Strategic relevance has been adequately discussed.	MS	MS
D.	Achievement of outputs: Does the report present a well-reasoned, complete and evidence-based assessment of outputs delivered by the intervention (including their quality)?	Draft report: The section is clear and concise, supported by a detailed annex. The section should be strengthened e.g. by assessing how the effect of cancellation of certain outputs and the quality and timeliness of output delivery.	S	S

		Final report: Achievement of outputs has been well discussed.		
E.	Presentation of Theory of Change: Is the Theory of Change of the intervention clearly presented? Are causal pathways logical and complete (including drivers, assumptions and key actors)?	Draft report: The ToC has been adequately presented. The intermediate states, assumptions and drivers are discussed separately but the different impact pathways could be more clearly described. The ToC should be supported by explaining, e.g. as a table, how the different result statements derived from the project document have been placed in the reconstructed ToC.  Final report: The ToC has been adequately presented.	MS	MS
F.	evidence-based assessment outcomes and project objectives?	Draft report: The assessment of effectiveness could be strengthened. It relies heavily on describing performance against indicators as reported in project progress reports. The section should be strengthened by supporting this information with evidence from the evaluation (interviews, site visits etc.). The evidence collected from the evaluation mission and other interviews should be presented more clearly and analysed more in-depth. The likelihood of impact is not based on the RoTI method and the assessment should more clearly assess the achievement (or likelihood) of intermediate states, the validity of assumptions, whether the project has addressed the drivers.  Final report: Effectiveness has been adequately discussed.	MU	MS
G.	Sustainability and replication: Does the report present a well-reasoned and evidence-based assessment of sustainability of outcomes and replication / catalytic effects?	Draft report: The section should be clearly divided by the 4 different sustainability categories and the categories should be rated separately.  Final report: Sustainability has been adequately discussed.	МИ	MS
H.	<b>Efficiency</b> : Does the report present a well-reasoned, complete and evidence-based assessment of efficiency? Does the report present any comparison with similar interventions?	Draft report: Efficiency has been assessed to some extent, but clearer assessment of timeliness and cost-efficiency is needed.  Final report: Efficiency has been adequately discussed.	MU	MS
I.	Factors affecting project performance: Does the report present a well-reasoned, complete and evidence-based assessment of all factors affecting project performance? In particular, does the report include the actual project costs (total and per activity) and actual	Draft report: Factors affecting performance should be discussed based on the subcategories identified in the ToR. All categories should be assessed.  Final report: Factors affecting performance have been adequately discussed.	МИ	MS

	co-financing used; and an assessment of the quality of the project M&E system and its use for project management?			
J.	Quality of the conclusions: Do the conclusions highlight the main strengths and weaknesses of the project, and connect those in a compelling story line?	Draft report: The conclusions could be written into a stronger narrative and perhaps evolve more around the key questions rather than outputs and individual outcomes.  Final report: Conclusions are adequately presented.	MS	MS
K.	Quality and utility of the recommendations: Are recommendations based on explicit evaluation findings? Do recommendations specify the actions necessary to correct existing conditions or improve operations ('who?' 'what?' 'where?' 'when?)'. Can they be implemented?	Draft report: Recommendations are based on evaluation findings. They could be reformulated to more clearly describe the context and prescriptive action. One of the introduced recommendations is rather a lesson.  Final report: Recommendations are adequately presented.	MS	MS
L.	Quality and utility of the lessons: Are lessons based on explicit evaluation findings? Do they suggest prescriptive action? Do they specify in which contexts they are applicable?	Draft report: Lessons are mainly based on presented evidence, but in cases it should be ensured that the findings are clearly described in the main report. Lessons should more clearly describe the context from which they are derived from, and the actual lesson to be learned.  Final report: Lessons are adequately	MS	MS
		presented.		
M.	ort structure quality criteria  Structure and clarity of the report: Does the report structure follow EOU guidelines? Are all requested Annexes included?	Draft report: The report follows EOU structure to some extent. Effectiveness and factors affecting performance section should be revised.  Final report: The report follows the Evaluation Office structure.	MS	S
N.	Evaluation methods and information sources: Are evaluation methods and information sources clearly described? Are data collection methods, the triangulation / verification approach, details of stakeholder consultations provided? Are the limitations of evaluation methods and information sources described?	Draft report: Description of evaluation methods is focused at evaluation limitations. Data collection methods, in addition to country visit should be better described, as well as how the data was analysed Final report: Same as above.	MS	MS
0.	Quality of writing: Was the report well written? (clear English language and grammar)	Draft report: The report was well written, in places more attention could be paid to make sure full sentences are used.  Final report: The report was well written.	S	S

P.	<b>Report formatting:</b> Does the report follow EOU guidelines using headings, numbered paragraphs etc.	Draft report: The report follows EOU guidelines.  Final report: The report follows EOU guidelines.	S	S	
	OVERALL REPORT QUALITY RATING		MS	MS	

The quality of the evaluation process is assessed at the end of the evaluation and rated against the following criteria:

		UNEP Evaluation Office Comments	Rating
		ONET Evaluation of the dominions	
Eva	luation process quality criteria		
Q.	Preparation: Was the evaluation budget agreed and approved by the EOU? Was inception report delivered and approved prior to commencing any travel?	Evaluation budget was approved by the EOU. Inception report was delivered and approved prior to commencing travels.	HS
R.	<b>Timeliness:</b> Was a TE initiated within the period of six months before or after project completion? Was an MTE initiated within a six month period prior to the project's mid-point? Were all deadlines set in the ToR respected?	The process was initiated within the timeframe but due to delays in the contracting process, the start of actual work took place later than planned.	MS
S.	Project's support: Did the project make available all required documents? Was adequate support provided to the evaluator(s) in planning and conducting evaluation missions?	The evaluation experienced delays and difficulties in obtaining the necessary information and support.	MU
T.	Recommendations: Was an implementation plan for the evaluation recommendations prepared? Was the implementation plan adequately communicated to the project?	Implementation plan was prepared and communicated to the project.	MS
U.	Quality assurance: Was the evaluation peer- reviewed? Was the quality of the draft report checked by the evaluation manager and peer reviewer prior to dissemination to stakeholders for comments? Did EOU complete an assessment of the quality of the final report?	The evaluation report was peer-reviewed prior to dissemination for comments. Quality of the report was assessed at draft and final stages.	S
V.	Transparency: Were the draft ToR and evaluation report circulated to all key stakeholders for comments? Was the draft evaluation report sent directly to EOU? Were all comments to the draft evaluation report sent directly to the EOU and did EOU share all comments with the commentators? Did the evaluator(s) prepare a response to all comments?	ToR and draft report was circulated for comments. Draft and comments were sent directly to the Evaluation Office and responses to the comments were provided.	HS
W.	Participatory approach: Was close communication to the EOU and project maintained throughout the evaluation? Were evaluation findings, lessons and recommendations adequately communicated?	The evaluation experienced difficulties in regards fluent communication with some of the key stakeholders of the project. Preliminary findings were presented at the end of the evaluation mission. Final report was disseminated to all	MS

		stakeholders.	
X.	Independence: Was the final selection of the evaluator(s) made by EOU? Were possible conflicts of interest of the selected evaluator(s) appraised?	Final selection of the evaluators was made by the Evaluation Office through UNON procurement process.	S
		OVERALL PROCESS RATING	S

#### Rating system for quality of evaluation reports

A number rating 1-6 is used for each criterion: Highly Satisfactory = 6, Satisfactory = 5, Moderately Satisfactory = 4, Moderately Unsatisfactory = 3, Unsatisfactory = 2, Highly Unsatisfactory = 1

The overall quality of the evaluation report is calculated by taking the mean score of all rated quality criteria.