

# UNIDO GEF Annual Monitoring Report FY 2018

Response ID:59 Data

## 1. UNIDO GEF Annual Monitoring Report II FY 2018

### 1. GEF ID:

5375

### New Analysis Question

### 2. UNIDO SAP ID:

120119

### 3. GEF Replenishment Cycle:

GEF-5

### 4. GEF Focal area:

Climate Change (CC)

### 5. Integrated Approach Pilot (IAP) Programs (only for GEF-6 projects, if applicable)

### 6. UNIDO PTC Department:

Department of Energy (ENE)

### 7. Project Title: (*as per approved CEO Endorsement document*)

Scaling-up small hydro power (SHP) projects in Nigeria

### 8. UNIDO Project Manager:

First name : Heng

Last name : Liu

### 9. Project Manager's email:

H.Liu@unido.org

### 10. Please state the geographical location(s) of the project:

#### Please select one:

Country. Please state:: Nigeria

### 11. Please provide a project summary: (*approx. 300 words*)

**Objectives:** The project aims to scale up small hydro power (SHP) technology in Nigeria. The main objective is to promote investments in small hydro power (SHP) technology and strengthen local manufacturing of SHP turbines in the country.

**Baseline:** The electricity supply is presently unreliable in the country with frequent shutdowns, load shedding and grid failures. The estimated electricity demand in the country is about 15,000MW; on the supply side, the total installed generating capacity is approximately 12,000MW, but only about 5,000MW is effectively operating. This has compelled many consumers (both industrial and households) to rely on inefficient diesel/petrol generators to meet their energy needs. As a result, the Nigerian economy has become fossil-fuel dependent leading to high CO2 emissions from the energy sector with serious environmental consequences and increased vulnerability to climate change.

Among various renewable energy (RE) options, small hydropower (SHP) holds great potential for Nigeria in addressing climate change and providing access to energy for the whole population. Recent government estimates suggest a potential of approximately 14,750 MW of hydropower, SHP alone is estimated to be around 3,500 MW. The development of the hydro power sector is hampered by a number of barriers, such as a) lack of capacity in design, fabrication, installation and operation of SHP systems; b) lack of skills and know-how in developing SHP projects (planning, development and implementation); c) lack of information on potential sites (hydrological and geological data, etc.); d) lack of awareness, incentives and coordination among various stakeholders; and e) lack of a conducive environment for private sector participation in SHP development.

Target Results: The main outcomes and deliverables expected under the project are as follows:

- (i) Improve human and institutional capacity for continuous development of SHP projects;
- (ii) Upgrade the capacity for local fabrication of SHP turbines and control systems up to 300 kW;
- (iii) Establish standards and quality assurance for the fabricated equipment
- (iv) Demonstrate SHP projects on a private-public partnership (PPP) basis for a cumulative 3.1 MW installed capacity leading to an overall direct emission reduction of around 349,424 tCO<sub>2</sub>e

## 2. Global Environmental Objectives (GEOs) / Development Objectives (DOs)

12. Please state the progress made in FY 2018 in achieving the intended Global Environmental Objectives / Development Objectives.

Please state the **progress rating of GEOs/DOs** (as per the rating filled in AMR Part I):

Satisfactory (S)

Please state the **progress made** in the current FY in achieving the outlined **GEOs/DOs**.

The assessment of this project on the achievement of its Global Environment Objectives/Development Objectives is rated as Satisfactory. The GEOs from this project will emanate from the demonstration sites when they have been completed. Construction work has started in one demonstration site - Doma mini hydro power scheme with projected installed capacity of 300 kW at Doma Dam, Doma, Nasarawa State.

## 3. Implementation progress

13. Project Objectives and Progress

Please state the **implementation progress rating** (as per the rating filled in AMR Part I):

Moderately satisfactory (MS)

Please state the **implementation progress** made for this FY.

The Implementation Progress (IP) rating is Moderately Satisfactory (MS). The rating is based on the slow implementation of the activities planned for this FY. This is due to the economic recession the country is coming out from and government bureaucracy.

## 4. Risk management

14. Please indicate the overall risk management: (i) as identified in the CEO Endorsement document, and (ii) progress to-date.

**\*Risks identified as per CEO Endorsement document. Please indicate in the "Risks" column if some are new/additional risks.**

	(i) Risks	(i) Risk level	(i) Mitigation measures	(ii) Progress to-date
1	There is no indigenous technology for SHP in Nigeria and the country currently depends upon the importation of components and peripherals from other countries.	Low risk (L)	UNIDO has transferred technology for fabrication of cross-flow turbines for MHP up to 125 kW. This has reduced the level of dependency on other countries to a certain extent. The training for local fabrication of SHP turbines and controls is planned as a part of the project. With UNIDO's prior experience, the technology can be transferred very effectively to the local manufacturers. Human and institutional capacity will be built effectively. Hence, the acquired knowledge and skills will be used to mitigate against the technical risks	No new progress to -date.
2	No off-takers for the generated electricity.	Low risk (L)	The electricity generated will be supplied to the local communities and industries nearby the power plant. The demand and supply gap is wide and hence will not be any risk for electricity off-take.	No new progress to -date.
3	Low market for SHP turbines and components.	Modest risk (M)	The replication potential for SHP is high (82 MW). Enabling environment for investment will be created at the end of the project. Therefore the market for SHP turbines and components will be mitigated.	No new progress to -date.
4	The general perception is that investments in SHP based plants do not provide enough (high) returns and hence investors will not be willing to invest in SHP replication projects.	Modest risk (M)	The project will create awareness about the benefits of SHP projects among private investors. It will also facilitate fund / financing scheme which would encourage and sustain SHP development. These activities will eliminate the perceptible risks of the project. The successful implementation of the proposed projects will enhance the stakeholders' participation, especially, the financial institutions. This will ensure successful replication of the project.	No new progress to -date.
5	No specific policies on SHP to facilitate enhanced scaling up	Low risk (L)	The project proposes FiT specifically for SHP which, when in place, will significantly improve the development of SHP projects	No new progress to -date.
6	Change of RE policies due to change of Government.	Modest risk (M)	Electricity access is the key parameter essential for Nigerian economic growth. Even when the government changes, there is lesser possibility that the existing RE policies will be discontinued, as most of these policies were implemented by government ministries.	No new progress to -date.
7	Co-financing not being committed by co-financiers.	Modest risk (M)	Consultations with the stakeholders to ensure their financing of the project.	No new progress to -date.
8	Drought.	Low risk (L)	Based on the feasibility study report the demonstration projects are not vulnerable to drought.	No new progress to date.
9	Risk of flooding.	Low risk (L)	Nigeria is vulnerable to low flooding only. Proper spillways and diversion channels will be constructed to overcome this risk in flood prone sites.	No new progress to date.
10				

**15. If the project received a sub-optimal risk rating (H, S) in the previous PIR FY, please state the actions taken since then to mitigate the relevant risks.**

N/A

## 5. Implementation and Execution issues

### 16. Please state any **implementation issues** occurred in overseeing and supervising during FY 2018:

The project is experiencing some implementation issues as a result of a long approval process for developing the demonstration sites. As stated in the previous AMR the Federal Executive Council is yet to approve the development of the identified sites before funds can be released.

### 17. Please state any **execution issues** faced during FY 2018:

Due to the economic recession the country is recovering from, the stakeholders are yet to mobilize the co-financing contribution required to develop the identified sites.

## 6. Environmental and Social Safeguards (ESS)

As part of the requirements for projects, and based on the screening as per the UNIDO Environmental and Social Safeguards Policies and Procedures (ESSPP), which category is the project?

As required for all projects, please report on activities undertaken in FY 2018 to meet the ESS monitoring/management commitments made in the Project Document and/or the Environmental and Social Management Plan (ESMP).

	E&S risk	Mitigation measures undertaken in FY 2018	Monitoring methods and procedures used in FY 2018
(i) Risks identified during PIF and verified during PPG (as per the submitted ESMP)			
(ii) New risks identified during project implementation (if not applicable, please insert 'NA' in each box)			

## 7. Gender mainstreaming

### 18. Please describe the **gender considerations** mainstreamed into the CEO Endorsement:

All required efforts will be made by the PMU to select as many qualified women as possible in its planned activities, both at the management and technical levels and encourage them to participate in all relevant project and decision-making activities. Terms of References (ToRs) will be prepared to attract qualified applicants, preferably female experts to mainstream the gender relation in the activities of consultants and experts. Eligible female candidates will be engaged as trainers and technical consultants.

### 19. Please state the **measures taken** so far, and the **results achieved** in FY 2018 against the intended gender mainstreaming actions (refer to question above):

No result achieved in this FY due to the slow implementation rate.

## 8. Stakeholders consultation

### 20. Please describe the stakeholders consultations that have taken place for FY 2018?

1. GEF project steering committee meeting (comprising of national operational focal point, co-financiers, financial institutions, Federal Government agencies, state government, UNIDO, etc)
2. GEF National Steering Committee Meeting.

### 21. Please upload the relevant consultation documents:

(Eg: Project Steering Committee minutes, Aide Memoire, Meeting Agenda, etc.)

[5375\\_Project\\_Steering\\_Committee\\_Meeting\\_Report.pdf](#)  
[5375\\_Presentation\\_at\\_the\\_National\\_Steering\\_Committee\\_Meeting.pdf](#)

## 9. Knowledge Management

**22. Please list the titles of knowledge management or publicity materials that have been produced for the project.**  
*(i.e. online information exchange/sharing platforms, technical reports, project website or video links, publications, posters, flyers, etc.)*

1 : Technical reports (pre-feasibility studies)

**23. Please upload the materials mentioned above.**  
*(i.e. photos, brochure, flyer, leaflet, feasibility studies... up to 10 files)*

[5375\\_\\_Pre-feasibility\\_Study\\_\\_\\_-\\_Benin-18july18.pdf](#)  
[5375\\_Pre-feasibility\\_Study\\_\\_\\_-\\_Ofu.pdf](#)  
[5375\\_Pre-feasibility\\_Study\\_\\_\\_-\\_Omi.pdf](#)  
[5375\\_Pre-feasibility\\_Study\\_\\_\\_-\\_Osara-new.pdf](#)  
[5375\\_Pre-feasibility\\_Study\\_\\_\\_-\\_Okura.pdf](#)

**24. Please share a story on how the project has benefitted the environment and communities.**

N/A

## 10. Files upload (Required for PIR, MTR and TE)

**25. The following information is filled as part of the:**

Project Implementation Report (PIR)

**26. GEF Project size:**

Full-Sized Project (FSP)

**27. Please upload the **Project Progress Update Report** showing progress by output-level for FY 2018 (1 July 2017 to 30 June 2018):**

[5375\\_Project\\_Progress\\_Update\\_Report.pdf](#)

**28. Please upload the **updated work plan** for FY 2018:**

[5375\\_work\\_plan\\_2018.pdf](#)

**29. Please upload any other materials you wish to share from the project:**

*(i.e. feasibility study reports, technical reports, etc) **For PTC/ENV projects with SCD requirements, please upload it here.***

***Please name your file "GEFID\_document name".***

## 11. Project Implementation Report (PIR)

**30. Please insert information on progress, challenges and outcomes on **project implementation activities**:**

The Implementation Progress (IP) rating is Moderately Satisfactory (MS). The rating is based on the slow implementation of the activities planned for this FY. This is due to the economic recession the country is just coming out from and government

bureaucracy.

The project is experiencing some implementation issues as a result of a long approval process for developing the demonstration sites. The Federal Executive Council has to approve the development of these sites before funds can be released.

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**31. Please insert information on progress, challenges and outcomes on stakeholder engagement (based on the description of the Stakeholder engagement plan included at CEO Endorsement/Approval):**

UNIDO is the GEF Implementing Agency involved in this project and responsible for the achievement of the expected outcome.

Federal Ministry of Power (FMP) and Energy Commission of Nigeria (ECN) are the two main executing agencies coordinating with UNIDO.

Other partners include Rural Electrification Agency (REA), Federal Ministry of Environment FME), State Governments, and related government departments and ministries.

Government bureaucracy is a major challenge that has affected the implementation of the project.

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**32. Please insert information on progress on gender-responsive measures as documented at CEO Endorsement/Approval in the gender action plan or equivalent:**

All required efforts will be made by the PMU to select as many qualified women as possible in its planned activities, both at the management and technical levels and encourage them to participate in all relevant project and decision-making activities. Terms of References (ToRs) will be prepared to attract qualified applicants, preferably female experts to mainstream the gender relation in the activities of consultants and experts. Eligible female candidates will be engaged as trainers and technical consultants.

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**33. Please outline knowledge activities / products (when applicable), as outlined in knowledge management approved at CEO Endorsement / Approval:**

- Lessons learning and information dissemination
- Disseminating the information through leaflets and website
- Publishing a brochure about the SHP technology centre
- Methodologies and tools developed for better planning and decision making
- Develop a data base system for SHP project development

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## 12. Mid-Term Review (MTR)

**Please indicate the committed co-finance at CEO Endorsement (Table C)\* and the materialized co-finance\*\* as of FY 2018. If additional sources of co-finance have been added during project implementation, please add as appropriate.**

	Sources of co-finance* (i.e. National government)	Name of co-financier* (i.e. Ministry of Finance)	Type of co-financing*	Amount confirmed at CEO (USD)*	Amount materialized at MTR (USD)**
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
Total					

Please upload the relevant Tracking Tool (*optional for MSP*):

Please upload the relevant Core Indicators numbers / figures as of the date of the MTR.

If there has been commitment in the CEO Endorsement document to submit a [Mid-Term Evaluation \(MTE\)](#), please upload:

Please insert information on progress, challenges and outcomes on **stakeholder engagement** (based on the description of the Stakeholder engagement plan included at CEO Endorsement/Approval):

Please insert information on progress on **gender-responsive** measures, indicators and intermediate results as documented at CEO Endorsement/Approval in the gender action plan or equivalent:

Please outline **knowledge activities / products** (based on the Knowledge management approach approved at CEO Endorsement / Approval) and lessons learned (if available):

Please outline **main findings** of the **Mid-Term Review (MTR)**, i.e. key findings, recommendations and lessons learned:

### 13. Terminal Evaluation (TE)

Please indicate the (a) committed co-finance at **CEO Endorsement (Table C)** and (b) the materialized co-finance as of FY 2018. If additional sources of co-finance have been added during project implementation, please add as appropriate.

	(a) Sources of co-finance* (i.e. National government)	(a) Name of co-financier* (i.e. Ministry of Finance)	(a) Type of co-financing*	(a) Amount confirmed at CEO (USD)*	(b) Amount materialized at MTR (USD)**	(b) Amount materialized at TE (USD)**
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
Total						

Please upload the relevant Tracking Tool (TT):

Please upload the relevant **Core Indicators numbers / figures** as of the date of the TE.

Please upload the **Terminal Evaluation (TE)**:

Please insert information on progress, challenges and outcomes on **stakeholder engagement** (as evolved from the time of MTR):

Please insert information on progress on **gender-responsive** measures, indicators and intermediate results (as evolved from time of MTR), lesson learned if available:

Please outline **knowledge activities / products** (as evolved from time of MTR) and lessons learned:

Please outline **main findings** of the **Terminal Evaluation (TE)**, i.e. key findings, recommendations and lessons learned:

15. Thank You!

AMR II submission confirmation 5375