



USAID NIGERIA RENEWABLE ENERGY AND ENERGY EFFICIENCY PROJECT (REEEP)

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Winrock International

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Crimson Capital and EUCORD

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USAID Nigeria Renewable Energy and Energy Efficiency Project (REEEP)
Quarterly Report, FY 2014 Q3
April 1 – June 30, 2014

Table of Contents

LIST OF ACRONYMS	3
SUMMARY	5
Administrative Activities	6
<i>Setting Up of Physical Offices</i>	6
<i>Management Structure and Staffing.</i>	6
<i>Staff Computers and Other Office Equipment.</i>	6
<i>Official/ Project Vehicle.</i>	7
<i>Partnership Meetings.</i>	7
<i>M&E Work Plan Development.</i>	7
TECHNICAL ACTIVITIES AND PROGRESS	7
Component 1: Access to clean energy financing	7
Component 2: Technical assistance to financial institution	8
Component 3: Trainings and awareness creation	10
Component 4: Governance	11
RESULTS FOR THE PERFORMANCE INDICATORS	13
Component 1:	13
Component 2:	15
Component 3:	15
Component 4:	17
CHALLENGES AND PROPOSED SOLUTIONS	18
Delay in the procurement of project vehicle	18
PLANS FOR NEXT QUARTER	18
Technical Activities	18
Under Component 1: Increase access to Clean Energy Financing	18
Under Component 2: Provide technical Assistance to Financial Institutions	19
Under Component 3: Provide vocational training and awareness creation	20
Under Component 4: Enhance governance to enact enabling policies for RE/EE project development.	21
APPENDIXES	22
APPENDIX A: Post-award conference with USAID	23
APPENDIX B: Meeting Reports	27
APPENDIX C: Crimson Capital Ecobank Training Report	43
APPENDIX D: REEEP Project Launch	47
APPENDIX E: Project pipeline	54

List of Acronyms

AMORE	Alliance for Mindanao Off-Grid Renewable Energy
AtRE	Access to Renewable Energy Program
BOI	Bank of Industry Nigeria
CDM	Clean Development Mechanism
CE	Clean energy
CHAI	Clinton Health Access Initiative
CO ²	Carbon dioxide
COP	Chief of party
COREN	Council for the Regulation of Engineering of Nigeria
CREN	Council for Renewable Energy of Nigeria
DCA	Development Credit Authority
ECN	Energy Commission of Nigeria
ECREEE	Ecowas Centre for Renewable Energy & Energy Efficiency
GDA	Global Development Alliance
GHG	Greenhouse gas
GIZ	Gesellschaft für Internationale Zusammenarbeit
GON	Government of Nigeria
IEC	Information, education, and communications
IPP	Independent power producer
IRENA	International renewable energy agency
KWh	Kilowatt hour
LASMI	Lagos State Microfinance Institution Initiative
LPG	DCA loan portfolio guarantee program
MARD	Ministry of Agriculture and Rural Development
MDA	Ministries Departments and Agencies
M&E	Monitoring and evaluation
MFI	Microfinance institution
MT	Metric Ton
MW	Megawatt
NAEE	Nigeria Alternative Energy Expo
NAPTIN	National Power Training Institute of Nigeria
NBTS	National Blood Transfusion Service
NCS	Nigeria Customs Service
NPHCDA	National Primary Health Care Development Agency
NTT	Nayo Tropical Technology
O&M	Operations and maintenance
PEPFAR	Presidential Emergency Plan for AIDS Relief
PFAN	Private Financing Advisory Network
PV	Solar photovoltaic
RE/ EE	Renewable energy/ Energy Efficiency
REEEP	Renewable Energy and Energy Efficiency Program

REMP	Renewable Energy Master Plan
RUWES	Rural Women Empowerment Scheme
SHP	Small hydro power
SME	Small and medium enterprise
STTA	Short-term technical assistance
SON	Standards Organization of Nigeria

Summary

The USAID Nigeria Renewable Energy and Energy Efficiency Project (REEEP) is a four year effort (March 2014 – March 2018) to facilitate the development and financing of renewable energy and energy efficiency market in Nigeria.

On March 3rd, 2014, the United States Agency for International Development (USAID) awarded Winrock International a four year cooperative agreement to implement the REEEP. The project will provide technical assistance that will contribute to USAID's broader goal of developing Renewable Energy (RE) and Energy Efficiency (EE) markets in Nigeria through the following four component objectives;

1. **Component 1:** To improve access to RE/ EE financing by social and economic businesses
2. **Component 2:** Develop the capacity of DCA banks and other financial institutions
3. **Component 3:** Enhance the capacity of RE/ EE vocational institutions
4. **Component 4:** Strengthen RE and EE policy environment

Following the award, USAID Nigeria organized a Post- Award Conference for Winrock International on April 8, 2014. The conference was attended by key USAID Nigeria Mission Staff as well as Winrock International Nigerian team and the Home Office Manager from Winrock Headquarters. The conference which was led by Kingsley Ebule, the A&A Specialist was to achieve the following purpose:

- Achieve a clear and mutual understanding of the Agreement requirements.
- Understand the roles and responsibilities of USAID officials involved in the award administration.
- Identify and resolve potential problems (if any).
- Encourage harmonious working relationship.

The team after the conference, had a clear understanding of the roles and responsibilities of USAID and what is expected of the project team.

In seeking support for the project, Winrock's REEEP team embarked on series of advocacy visits to USAID funded projects like MARKETS II and HIV/AIDS project. Other places visited included Government of Nigeria Ministry of Environment, and Energy Commission of Nigeria. We also visited other funding partners like UNDP, GIZ, as well as RE and EE project developers and actors in the field who all accepted to partner and collaborate with us to achieve project goals and objectives. The series of positive meetings has engendered partnerships that will support implementation activities with the effects on transactions to be culminate in the upcoming quarters.

The REEEP M&E Specialist attended a 3-day Data Quality Assessment (DQA) organized for USAID Implementing Partners by the Nigeria Monitoring and Evaluation Management Services (MEMS II) from 10th to 12th June, 2014. The training covered areas such as data acquisition and transcription, performance data, indicators and PIRS development, data assessment

criteria as well as practical DQA field visit. The USAID/ MEMS II DQA training was timely to REEEP Project because the knowledge of the training will help Winrock to be on track with USAID requirements on every issues regarding data quality.

During the Quarter, Winrock engaged with Ecobank and other financial institutions like Diamond bank and Fortis Micro Finance Bank to discuss partnership opportunities in RE and EE financing in Nigeria. Organizational assessment was conducted for Ecobank which has enabled our partner, Crimson Capital, to develop a training manual that will help fill the gaps identified during the assessment process.

June 25, 2014 in collaboration with USAID Nigeria, Winrock officially launched the Renewable Energy and Energy Efficiency Project (REEEP) in Nigeria at an event at the Hilton in Abuja. The event which was declared open by USAID Nigeria, attracted stakeholders, key players, organizations and all the actors in Renewable Energy program in Nigeria. These include stakeholders from USAID, World Bank, Ministry of Environment, UNDP, GIZ, Ecobank, and Central Bank of Nigeria among others. A presentation was made to provide an overview of REEEP and the keynote address was given by the Ministry of Environment. Numerous goodwill messages were delivered by stakeholders including Solar Sister, . A total of 80 persons (Male= 56, Female= 24) were present at the event. This number did not include USAID.

Administrative Activities

Setting Up of Physical Offices

The USAID Nigeria Renewable Energy and Energy Efficiency Program office moved into its permanent facilities on April 8, 2014 at Flat 3, Block 51, E close, OAU Quarters, Maitama, Abuja, Nigeria. After the signing of the cooperative agreement, the Nigeria REEEP Home office Manager, Mr. Paul Burman was in Abuja in the week April 7th to 16th to support the project startup and guided the process of project mobilization and met with the project personnel. He formed the project implementation team nominated in the project proposal. The project team met with relevant project stakeholders and USAID staff on Tuesday the 8th of April, 2014 got the project started. The Office was also partitioned to create spaces for the project staff as well as provide a space for mini conference room.

Management Structure and Staffing.

Winrock's management team for the Program is composed of: a Chief of Party (COP) and component managers which include the Renewable Energy Technical Specialist and the Monitoring and Evaluation Specialist. All project technical personnel were hired and began work in early April. Other relevant personnel to the project include accounts/ admin manager, administrative assistant, and driver and will be hired in next quarter. Short term technical experts will be hired as necessary to meet project needs.

Staff Computers and Other Office Equipment.

Winrock International procured 3 Computers for the project staff. We also procured one colored printer, one water dispenser, projector and projector screen, digital camera and office furniture to be used in the course of the project implementation.

Official/ Project Vehicle.

There were delays in the process of procurement of the project vehicle. A waiver was requested to procure the vehicle from a US vendor, but the vehicle was to be manufactured and shipped from South Africa. We are currently searching for acceptable vehicles that can be procured in Nigeria, per USAID guidance. It is hope that the vehicle will be procured in the next quarter.

Partnership Meetings.

Initial coordination meetings are being scheduled during the first two quarters of the year for the purpose of defining and assigning roles of Subcontractors and Program Partners. Winrock has been coordinating regularly with main sub-contractors Crimson Capital and EUCORD and soliciting their input on first year activities for the project. Both Crimson Capital and EUCORD have signed contracts to begin work, and Crimson has started activities under the project. Winrock has also been coordinating with Butler Law Offices LLC, Council for Renewable Energy, Energy Commission of Nigeria, Nayo Tropical Technology, and Solar Sister to discuss first year implementation plans and areas of collaboration.

M&E Work Plan Development.

The first year activity work plan has been reviewed and approved by USAID. The Monitoring and Evaluation (M&E) Plan (PMP) submitted to USAID has been under review with the assistance of MEMS II, the M&E technical partner to USAID. The reviewed M&E Plan will be submitted to USAID for approval early in the next quarter.

Technical Activities and Progress

Component 1: Access to clean energy financing

This component focuses on developing the capacity of companies in the clean energy sector and other selected sectors that would benefit from using RE through targeted training and capacity-building activities. Winrock will focus on small and medium-scale SMEs private sector investments in clean energy to increase their access to finance for RE/ EE Projects. To deliver results in the component, the following task will be performed:

- Access and build on existing pipeline of potential project developers;
- Assess opportunities in areas/sectors that support USAID/Nigeria's portfolio;
- Identify additional opportunities/targets for RE investment;
- Identify financing options and train potential borrowers to access private finance.

Winrock is working with existing stakeholders, GON, project developers, international donors, and others to assess and build on the pipeline of renewable energy projects that may be eligible for debt or equity financing in Nigeria. A pipeline of projects is currently being developed as attached as an appendix.

Winrock has engaged with other USAID projects to coordinate with companies whose existing cash flow will stabilize or increase with a more reliable renewable energy source. Winrock is

in active discussions with the USAID MARKETS II, who have provided us with pools of rice processors and have helped in building the project pipeline. Winrock is also engaged with the USAID HIV/AIDS team to provide renewable energy technologies support for cold chain storage. In an effort to identify additional potential recipients of technical assistance, Winrock has also reviewed Ecobank's lending portfolio in the agricultural sector and the bank's portfolio of loans to other businesses located outside of urban areas.

Winrock has also identified other target sectors, projects, and project developers that can qualify for financing using DCA guarantees or from banks. These sectors included mobile phone charging, shopping malls, estates and individuals who have shown interest in retrofitting their homes and businesses with RE technologies. REEEP has provided technical support to one of the project developers – Rubycom Technologies Ltd to develop a business model as proof of concept for powering filling stations of the Nigerian National Petroleum Corporation with renewable energy. REEEP has also provided technical assistance to support the financing of renewable energy technologies to Abaji General Hospital in collaboration with Nayo Tropical technology (NTT).

Winrock also met with several key project developers like NTT, GVE, Creeds Energy, Blue Camel Limited, Rubycom Tech Ltd and other projects developers around the country to learn more about their needs and support them to access to private finance to improve project implementation.

Identification of financing options and training of potential borrowers to access these opportunities will be carried out in the subsequent quarter. As a result we have engaged a consultant in Nigeria to carry out an energy opportunity assessment with the aim of creating opportunities for renewable energy development and finance in various sectors of the economy.

The deliverables recorded in this component for the quarter under review included:

- Nigeria RE project pipeline template has been developed;
- A list of potential rice processors and other facilities under MARKETS II has been developed;
- A list of potential agricultural producers with the potential to generate energy from agricultural waste under MARKETS II.

Component 2: Technical assistance to financial institution

Most Nigerian banks are highly conservative in their lending to businesses, often requiring in excess of 200 percent collateral in relation to loan value. As a result, the majority of Nigerian businesses have little or no access to commercial credit. RE/EE lending is generally seen as presenting additional risk, as most financial institutions do not know how to calculate credit-risk analysis for RE/EE projects. Many lenders are skeptical that meaningful cash flow can be generated from RE/EE projects or doubt that the cash flow can be relied on to repay loans.

In this Component, Winrock will provide technical assistance to financial institutions to encourage lending on more favorable terms to RE/EE project developers and for RE/EE technology. In achieving this, the following tasks is expected from Winrock:

- Secure bank management buy-in and select capacity building/ training beneficiaries;
- Deliver training and develop materials and guidelines for RE/EE lending;
- Support marketing efforts to increase demand for RE/EE loans;
- Build relationships and coordinate regularly.

Winrock and Crimson Capital engaged with Ecobank on June 12, 2014 to secure senior management buy-in. Crimson has reviewed Ecobank's current credit policies and procedures, loan agreements, contracts, and collateral requirements, and is developing a detailed workplan to increase capacity within the Bank to lend to RE project developers.

REEEP has done a gaps/needs assessment to identify project areas where technical assistance will be needed, such as capacity building for staff in RE and EE financing, development of communication and marketing plan, product development and setup and selection of desk core group. These activities are expected to support the bank in fully utilizing the DCA and also improve staff understanding of RE/ EE technologies.

A 5-day training module has been developed in collaboration with Crimson capital and capacity building program will be held between July 21st and 26th which will include a study tour of RE installations in Lagos area.

Crimson is working with senior bank management to modify these as needed to support maximize utilization of the DCA. The staff understanding of RE/EE technologies and their ability to assess project opportunities and risk, and increase lending to the RE/EE sector was also reviewed.

Training module is been developed by Crimson for filling the gaps identified during the assessment process. The training is expected to be delivered to the dedicated core group formed in Ecobank in the next quarter. The capacity of approximately 20 staff will be built to develop sustainable, in-house RE/EE lending and train-the-trainer capacity. This activity will also be replicated to other financial institutions like Zenith bank, Diamond Bank and Fortis Micro Finance Bank. We will be developing training materials and clean energy lending toolkits in collaboration with our consultants. We will also engage consultants with experience in training microfinance banks to customize a capacity building program specifically with microfinance banks and deliver trainings.

Winrock also engaged with the senior management of Diamond Bank and Zenith Bank, with Diamond Bank accepting in principle our proposal for technical assistance, while Zenith bank will be considered at a later stage.

The senior management of Fortis Bank has also accepted our proposal for technical assistance in principle and the capacity building program is proposed for next quarter.

Please note that the project also provided capacity building opportunity for the head, SME of Ecobank and the group head, micro credit of Fortis micro finance bank by recommending them for a four day workshop on financing solar energy technology in West Africa organized by IRENA and ECREEE in Lome, Togo from July 13th – 16th, 2014.

The following deliverables were recorded;

- Winrock held engagement meetings with senior management staff of Ecobank and Fortis MFB. MOU is expected to be signed with the two banks and other banks like Diamond bank and Zenith bank we are still in talks.
- A training module has been developed in collaboration with Crimson Capital and capacity building program and training to hold between July 21st and 26th 2014, which will include a study tour of RE installations in Lagos area.
- Winrock recommended key senior management staff of Ecobank and Fortis to attend the workshop on Financing Solar Technology in West Africa organized by IRENA and ECREEE.
- Crimson Capital initial assessment of Ecobank (attached as appendix)

Component 3: Trainings and awareness creation

A major challenge encountered in RE and EE project development in Nigeria is the lack of qualified and competent technical support staff to install and maintain systems and low awareness of technology and the benefits. Winrock in this component intends to use the following series of activities to increase awareness and technical capacity in Nigeria:

- Promote educational center training for RE and EE technologies;
- Support implementation of GON zero import duty for RE goods;
- Promote installer and project assessor professional certifications;
- Ensure gender equality in training programs;
- Foster awareness of RE and EE technologies and benefits.

Winrock is working to increase the technical capacity to install, maintain, and service RE/EE systems in Nigeria. Winrock in collaboration with University research and training centers, as well as private sector participants, we will help to build necessary capacity to expand clean energy systems. Winrock has engaged with Energy Research Centers in Nsukka and Sokoto.

Winrock is in collaboration with GIZ to implement a training program in partnership with identified training institutes in Nigeria. GIZ had previously conducted a mapping exercise of available RE training programs in Nigeria. These collaboration will help to save costs as well as avoid duplication of efforts. Winrock and GIZ is working out modalities for successful delivery of these training programs to all stakeholders.

Winrock held several meetings with the Ministry of Environment for the purpose of engaging the Nigeria Custom Service (NCS) and the Standards Organization of Nigeria (SON), to conduct the knowledge gap assessment and as well, ascertain the current structure as regards RE

products and help to reform the import process for RE/EE products to reduce tariffs, time in transit, and encourage use of RE/EE technologies.

Winrock will be following up with the World Bank and Federal Ministry of Environment to engage with the Ministries of Finance, Trade and Investments in supporting the NCS to setup dedicated RE task force. The World Bank will be providing technical assistance to the Nigeria Customs Service to set up a task force on renewable energy and build capacity of the staff. This is to create awareness of RE and EE technologies and enhance speedy clearance of consignment of project developers applying the relevant customs duty rates, waivers and concessions. The task force will thereafter serve as the Train the Trainers to replicate the process throughout NCS.

To ensure full and meaningful participation of women through the life of the project, Winrock is working with Ministry of Environment through its RUWES (Rural Women Energy Security). Winrock will deliver trainings to the scheme that will be modeled after the USAID-funded Alliance for Mindanao Off-Grid RE (AMORE) project in the Philippines. The training module is being finalized.

Awareness of REEEP and the project objectives was created through the project launch. The importance of renewable energy and energy efficiency and USAID's presence in country were disseminated to the public through several newspaper publication of the events and television broadcast as indicated in the appendix.

The deliverables on this components for the quarter under review were the following:

- Winrock obtained the GIZ assessment report of RE/EE training programs in Nigeria;
- RE/EE training and materials to engage women participation is near completion;
- Winrock in collaboration with USAID organized REEEP Project launch.

Component 4: Governance

The lack of progress to enact and enforce energy policy reforms stems from policy makers' and implementers' limited understanding of the enabling environment needed to incentivize greater private sector participation among other reasons. In this component, Winrock intends to create the much needed framework to breach this gap by embarking on the following:

- Support for policy that develops the clean energy market;
- Establish a Clean Energy Coalition.

Winrock has commenced the design of series of targeted training and learning opportunities for policy makers and implementers at the national and state levels to enhance their knowledge of the financial environment and policies needed to promote RE. High level advocacy to key decision makers in government entities including the Ministry of Environment, Ministry of Power, Energy Commission of Nigeria, Ministry of Science and Technology, and the legislature is in progress in this regard on raising awareness of best practices and current clean energy initiatives and opportunities in Nigeria.

Winrock has also commenced collaborating meetings with green advocates and the legislature for the purpose of establishing a Clean Energy Coalition to ensure greater accountability on the part of policy implementers and counter vested interests within the energy sector. The initial meeting of the proposed coalition will hold early in the next quarter. Some potential members of the coalition are GIZ, Henrich Boll Foundation, project developers such as Creeds Energy, Rubicon Technologies, Blue Camel Energy, Renewable Energy Programme of the Ministry of Environment, Association of Nigerian Solar Energy Promoters, Solar Sister, etc.

Results for the Performance Indicators

During the Q3 project start-up phase, Winrock made only modest progress against performance indicators even as the REEEP Monitoring and Evaluation Plan is still under review. Below is a summary of the indicators being considered in the Monitoring and Evaluation Plan and the results in the quarter under review:

Component 1:

RI: 1 **USG Indicator 4.8-7**

Indicator: **Greenhouse gas (GHG) emissions, estimated in metric tons of CO₂e, reduced, sequestered and/ or avoided as a result of USG assistance**

Target year 1	186 Metric tons of CO ₂
Actual year 1 Q3	Zero

RI: 2 **USG Indicator 4.4.1-31:**

Indicator: **Number of beneficiaries with improved energy services due to USG assistance**

Target year 1	800
Actual year 1 Q3	Zero

RI: 3 **USG Indicator 4.8.2-32:**

Indicator: **Clean energy generation capacity installed or rehabilitated as a result of USG assistance**

Target year 1	0.075 Megawatts
Actual year 1 Q3	Zero

RI: 4 **Custom Indicator**

Indicator: **Number of people with improved access to health care services**

Target year 1	Zero
Actual year 1 Q3	Zero

RI: 5 **Custom Indicator**

Indicator: **Number of health facilities that have installed RE/EE Technologies as result of USG assistance**

Target year 1	Zero
Actual year 1 Q3	Zero

RI: 6 Custom Indicator

Indicator: **Number of social and economic business that have installed RE/EE Technologies as a result of USG assistance**

Target year 1 Zero

Actual year 1 Q3 Zero

RI: 7 Custom Indicator

Indicator: **Cost savings generated as a direct use of RE used**

Target year 1 51,125 USD

Actual year 1 Q3 Zero

RI: 8 Custom Indicator

Indicator: **Revenue generated as a direct use of RE used**

Target year 1 Zero

Actual year 1 Q3 Zero

RI: 9 USG Indicator 4.8.2-31

Indicator: **Expected lifetime energy savings from EE or energy conservation as a result of USG assistance**

Target year 1 5,256 giga joules

Actual year 1 Q3 Zero

OP: 1 Custom Indicator

Indicator: **Number of public and private buildings, including medical facilities, retrofitted with clean energy**

Target year 1 1

Actual year 1 Q3 Zero

OP: 2 Custom Indicator

Indicator: **Number of kilowatt hours formerly provided by diesel generators displaced with lower carbon fuels as a result of USG assistance**

Target year 1 51,500 Kilowatt hours

Actual year 1 Q3 Zero

OP: 3 USG Indicator 4.8.2-31

Indicator: **Number of Renewable energy technologies deployed**

Target year 1 50

Actual year 1 Q3 Zero

Component 2:

RI: 10 **USG Indicator 4.3.2-6**

Indicator: **Amount of private sector financing mobilized with Development Credit Authority (DCA) guarantees**

Target year 1 300,000 USD

Actual year 1 Q3 Zero

OP: 4 **Custom Indicator**

Indicator: **Clean energy loan portfolio adopted by non-DCA banks**

Target year 1 Zero

Actual year 1 Q3 Zero

OP: 5 **USG Indicator 4.8.2-10**

Indicator: **Amount of investment leveraged in US Dollars, from private and public sources, for climate change as a result of USG assistance**

Target year 1 Zero

Actual year 1 Q3 Zero

Component 3:

RI: 11 **USG Indicator 4.8.2-14:**

Indicator: **Number of institutions with improved capacity to address climate change issues as a result of USG assistance**

Target year 1 2

Actual year 1 Q3 Zero

RI: 12 **Custom Indicator**

Indicator: **Number of people who earns income through the use of renewable energy and energy efficiency technologies**

Target year 1 60
Actual year 1 Q3 Zero

RI: 13 Custom Indicator

Indicator: **Number of clean energy jobs created, disaggregated by gender and age**

Target year 1 20
Actual year 1 Q3 Zero

OP: 6 Custom Indicator

Indicator: **Number of vocational training students who get jobs or internships in the clean energy field**

Target year 1 4
Actual year 1 Q3 Zero

OP: 7 USG Indicator 4.4.1-34

Indicator: **Person hours of training completed in technical energy fields supported by USG assistance**

Target year 1 600
Actual year 1 Q3 Zero

OP: 8 USG Indicator 4.8.2-31

Indicator: **Number of people reached with increased information on EE and conservative measures**

Target year 1 50,000
Actual year 1 Q3 80

OP: 9 Custom Indicator

Indicator: **Number of people reached during advocacy meetings**

Target year 1 Zero
Actual year 1 Q3 35

OP: 10 Custom Indicator

Indicator: **Number of advocacy visits conducted**

Target year 1	Zero
Actual year 1 Q3	17

Component 4:

RI: 14 **USG Indicator 4.8.2-28**

Indicator: **Number of laws, policies, strategies, plans, or regulations addressing climate change (mitigation or adaptation) and/or biodiversity conservation officially proposed, or adopted as a result of USG assistance**

Target year 1	Zero
Actual year 1 Q3	Zero

RI: 15 **Custom Indicator**

Indicator: **Number of clean energy coalition created**

Target year 1	1
Actual year 1 Q3	Zero

OP: 11 **Custom Indicator**

Indicator: **Number of times clean energy bills are discussed at the legislative house**

Target year 1	Zero
Actual year 1 Q3	Zero

Challenges and Proposed Solutions

Delay in the procurement of project vehicle

There has been delay in the procurement of the project vehicle. The challenge will soon be resolved as USAID has permitted Winrock to procure a vehicle from Nigeria. There has also been a delay in the procurement of the hybrid solar/ inverter unit for the office, but this will soon be procured as all necessary technical requirements are under internal Winrock review to ensure quality.

Plans for next quarter

Technical Activities

Under Component 1: Increase access to Clean Energy Financing

Winrock will work with existing stakeholders, project developers, international donors, and others to assess and build on the pipeline of renewable energy projects that may be eligible for debt or equity financing.

Specific tasks

- Liaise with Ecobank to determine any challenges affecting loan disbursement to BOI/UNDP Access to Renewable Energy (AtRE) Project, energy access winners.
- Engage with Ecobank to build pipeline of projects for finance to improve access to energy.
- Engage with UNIDO on small hydro power (SHP) and waste to energy projects e.g. the 5MW rice husk plant in Abakaliki – Ebonyi State.
- Liaise with PFAN to identify project developers for finance (debt and equity).
- Winrock will engage with Chemonics - the Feed the Future Program (MARKETS II) to identify the rice millers for pilot projects in converting rice husks to energy.
- Winrock will engage with USAID HIV/AIDS program to provide alternative energy solutions for warehouse in a box, cold stores for vaccines, and other opportunities as they arise.
- Winrock will work with Clinton Health Access Initiative (CHAI) and Bill and Melinda gates Foundation to fit the existing warehouses and storage facilities with RE technologies by developing a proposal for a typical HIV/ AIDS clinic in collaboration with a Project Developer.

- Winrock will conduct an audit of selected facilities to determine:
 - Current energy needs and applications, e.g., lighting, vaccine refrigeration, communication, medical equipment, water supply, etc.
 - Reliability of current energy source and operational expenses
 - Future projected energy needs
 - Appropriate RE and EE solutions.
- Winrock will engage with SMEs that market household-level energy systems such as domestic biogas, and solar home systems to improve access to finance by creating a linkage with Ecobank.
- Winrock will examine data on various agricultural products, the size distribution of associated processing facilities, and the energy requirements and current fossil-fuel consumption of typical processing facilities.
- Winrock will support key project developers with projects around the country like NTT, Creeds Energy, Blue Camel Limited, Rubycom Tech Ltd etc. that will require better access to finance to improve projects that they are presently embarking on.
- Winrock will work with Crimson Capital and others to develop a training module for project developers.
- Winrock will deliver one training session to 10 selected project developers.
- Winrock will initiate discussions with other donor agencies to facilitate applications for grants to health care centers in rural areas and public health care facilities in peri-urban and urban areas.
- Winrock will collaborate with Ecobank in providing assistance to private hospitals and health facilities in applying for loans from banks.

Under Component 2: Provide technical Assistance to Financial Institutions

The following tasks will be undertaken in the next quarter; Work with senior management of Ecobank to form a dedicated core group of approximately 10 staff to develop sustainable, in-house RE/EE lending and train-the-trainer capacity.

- Winrock will meet senior management of Zenith bank, Diamond bank and Fortis MFB to secure buy-in.
- Winrock will also support Ecobank, Zenith Bank, Fortis MFB and BOI in examining its current lending portfolio to identify businesses that need to be retrofitted with RE technologies to improve productivity.
- Winrock will work with Fortis MFB to assess the need for end-user finance and the potential for engaging microfinance institutions in providing loans for products like solar home systems, solar lanterns, solar pumps, solar dryers, solar water heaters, and domestic biogas.

- Winrock will develop a training module for MFIs and carry out one training program for Fortis MFB.
- Develop marketing programs and materials for RE/EE lending and will work with Crimson Capital to develop marketing brochures.
- Winrock project staff will meet with designated representatives of Ecobank and Fortis MFB in Q4 - 2014 to discuss progress, address questions, propose solutions for issues that may come up, and ensure that data is being entered accurately and promptly into the Credit Management System.

Under Component 3: Provide vocational training and awareness creation

Winrock intends to use the following series of activities to increase awareness and technical capacity on RE and EE technologies in Nigeria:

- Winrock in collaboration with GIZ - Gesellschaft für Internationale Zusammenarbeit and the National Power Training Institute of Nigeria - NAPTIN to carry out a mapping exercise of available RE training programs in Nigeria.
- Winrock in collaboration with GIZ, Nayo Tropical, ECN Research Centers and COREN will develop a technical curricula that will show case international best industry practices that focuses on real-world preparation for a viable, professional occupation.
- Winrock will install a 4kW solar energy backup system that will serve as a demonstration equipment in its office at OAU quarters Maitama, Abuja, Nigeria.
- Winrock will procure necessary equipment for practical first-hand demonstrations of technology use and application. This equipment may include solar PV panels, energy testing systems, and other equipment relevant to the RE/EE courses and will benefit students in their knowledge of the subject matter.
- Winrock will work with the Ministry of Environment to conduct a knowledge gap assessment of Nigeria Custom Service (NCS), Standards Organization of Nigeria (SON) to ascertain current structure as regards RE products.
- Winrock will identify required international professional certifications and licenses.
- Winrock will work with Nayo Tropical Technology to compile a list of tools and equipment that installers should understand and be able to use.
- Winrock will engage with the SON and Council for the Regulation of Engineering of Nigeria (COREN) on certification programs for engineers and technicians for RE technologies.
- Winrock will establish a separate women's business program modeled after the USAID-funded Alliance for Mindanao Off-Grid RE (AMORE) project in the Philippines and the Nepal loan guarantee facility for women owners of electric vehicles.
- Winrock will submit success stories to USAID on a quarterly basis for inclusion in its web site.

Under Component 4: Enhance governance to enact enabling policies for RE/EE project development.

Winrock intends to create the much needed framework to breach this gap existing in the RE and EE sector in Nigeria due to lack of enactment and poor RE policy implementation by embarking on the following:

- Winrock will host one high-level policy forum and seminar with key decision makers in government entities including the Ministry of Environment, Ministry of Power, Energy Commission of Nigeria, Ministry of Science and Technology, and the legislature in Q4 – 2014.
- Winrock will target 25 to 30 stakeholders per forum, with each event focused on raising awareness of best practices and current clean energy initiatives and opportunities.
- Winrock will facilitate a coordination meeting of all donor programs on RE in Nigeria.

Appendixes

APPENDIX A: Post-award conference with USAID

REPORT OF RENEWABLE ENERGY AND ENERGY EFFICIENCY PROJECT (REEEP) TEAM VISIT TO USAID NIGERIA OFFICE FOR POST- AWARD CONFERENCE:

Date: April 8, 2014.

In Attendance:

USAID:

1. **Kingsley Ebule-** A&A Specialist
2. **Emmanuel Odiedi-** Financial Analyst
3. **ImehOkon-** AOR
4. **James Lykos-** Alternate AOR
5. **Simon Enajedu-** IP Liaison Assistant

WINROCK:

1. **Paul Burman-** Home Office Manager
2. **SegunAdaju-** Chief of Party
3. **TinyanOgiehor-** RE Technical Specialist
4. **HyginusEze-** M&E Specialist

Purpose: To attend Post- Award Conference with the USAID Nigeria Team.

Agenda:

- Introduction/OAA's Presentation covering
- Authority and Responsibility
- Review of the Award Document
- Reporting Requirements/ Deliverables
- Payment/ Financial Information
- Unauthorized Commitment
- Request for approvals and Any Other Issues
- Questions and Answers for OAA
- Technical Overview of the Project
- Winrock International's Presentation

Objectives of the Conference:

- Achieve a clear and mutual understanding of the Agreement requirements.
- Understand the roles and responsibilities of USAID officials involved in the award administration.

- Identify and resolve potential problems (if any).
- Encourage harmonious working relationship.

The conference was led by Kingsley Ebule, the A&A Specialist. The conference started with the introduction of the participants. See Appendix 1. This was quickly followed by the purpose of the conference (see above).

He pointed out that the presentation was not a substitute to Recipient's full understanding of the program description at the time of the application was submitted and as well will not change the award terms and conditions.

Kingsley enumerated the Authority and Responsibilities of the USAID Key Staff and the conference took the following pattern;

1. Agreement Officer (AO)

The warranted individual according to him is authorized to take action on behalf of USIAD to enter into, administer, terminate or close-out an award in accordance with the limitations of her delegated authority, directives, and required procedures. He also has the legal responsibility for the award. He serves as the mandatory control point of record for all official communication and makes the final determination/ decisions pertaining to the award in accordance with the terms and condition of the award.

2. Acquisition and Assistance Specialist

The individual is the day-to-day contact point for all non-technical communication and works closely with the AO, TO, OFM and the Recipient from pre-award stage to post-award to closeout of award.

3. Agreement Officer's Representative (AOR)

The individual is designated by the AO and is responsible for the technical oversight and administration of the project. She is also responsible for monitoring Recipient's performance and ensuring that it conforms to the technical requirements. She is the technical liaison between the Recipient and the AO among other things. According to the presentations, the AOR also has some limitations such as not being authorized to make an award, modify agreement and obligate funds or other commitments or modification affecting the budget, price, quantity or schedule of the award.

4. Office of Financial Management (OFM)

The OFM is responsible for discharging the financial management aspects of USAID operations. OFM, through the financial analyst (FA) will provide assistance/ responses to financial management questions and concerns and as well conducts financial review when necessary.

5. Shipping/ IP Logistics Support Services

The departments assists in the provision of consular introduction letter, regularization of expatriate stay, shipment of official and personal goods and helps in tax exemption of USAID goods and negotiate for hotel rates.

6. Recipient- Winrock

The recipient is responsible for program implementation in accordance with Agreement terms and conditions, submits reports/ deliverables as required and monitors obligated funds and notifies AOR/ AO when funds are running out and also maintain documents in file for audit purposes.

7. Cooperative Agreement Overview

Kingsley Ebule gave the Cooperative Agreement Overview as follows:

Period of Performance:

Start Date - March 3, 2014

Completion Date- March 2, 2018

Approved Budget:

Total Obligation Amount: \$ 1,376,000.00

Total USAID Amount: \$3,999,556.00

Leveraging (non- Federal) Amount: \$10,000,000.00

Total Program Amount: \$13,999,556.00

Mode of Payment: Advance through Letter of Credit.

USAID according to him is not obligated to reimburse the Recipient for expenditure of amounts in excess of the total obligated amount and also will be not be paid for cost incurred beyond the completion date unless authorized in writing by the AO.

8. Substantial Involvement- by USAID

Substantial Involvement according to him must be limited to the following elements:

a, Approval of Recipient's Implementation Plans

b, Approval of specified key personnel

- Chief of Party
- RE Technical Specialist

c, Agency and recipient collaboration or joint participation

d, Approval of sub-awards

9. Dispute:

Should any dispute arise under this award, it shall be decided by the USAID AO.

10. Reporting Requirements- Program and Financial:

Kingsley enumerated the expected types of reports needed by USAID, the due date for the reports both the program and financial with reference to reporting and evaluation.

11. Agreement Standard Provision

He stated that the Recipients is expected to understand and adhere to the provisions, request approvals only when obtaining prior USAID approval is specifically required and must flow down certain provisions to its sub- grantees as required by the agreement. He gave examples of flow down provisions and discussed other unauthorized commitments.

He concluded the presentation with a statement that the success of any project depends on each team player carrying out his/her respective roles and responsibilities towards the success and the achievement of the project goals and stressed that team work is crucial.

12. Winrock Presentation

The Project Home Office Manager, Paul Burman provided a brief overview of the project technical approach. He gave the 4 components of the project to include; access to clean energy financing, technical assistance to financial institution, training and awareness creation and Governance. He provided detailed activities and expected results from these components.

There was a question and answer session where complicated issues arising from the presentation were resolved. One of such issues was in the double counting on the leveraging of DCA from Eco Bank as USAID had already had an Agreement with Eco bank. The USAID team agreed to have an in house deliberation on the matter and get back to Winrock.

The Project Chief of Party, Segun Adaju stated that there are other opportunities Winrock can leverage on for additional funding of projects such as the Africa Development Bank.

There were useful contributions from the USAID team and they were very enthusiastic about the project.

The conference lasted for the duration of 2 hours from (2pm – 4pm)

APPENDIX B: Meeting Reports

REPORT ON THE VISIT OF MEDICAL DIRECTOR, GENERAL HOSPITAL, ABAJI, FCT ABUJA TO WINROCK.

DATE: MAY 14, 2014.

ATTENDANCE:

Dr. Kazzar Ayuba- Medical Director, General Hospital Abaji, Abuja

Anayo—Director, Nayo Tropicals Technologies

Segun Adaju- COP REEEP

Tinyan Ogiehor- RE Technical Specialist

Hyginus Eze- M&E Specialist

DELIBERATIONS:

Anayo, the Director Nayo Tropical Technologies led Dr. Kazzah Ayuba, the Medical Director of General Hospital Abaji FCT, Abuja to Winrock office to discuss the possibility of assistance in retrofitting General Hospital in Abaji with RE technology.

Dr. Kazzar stated that it was in the course of his discussion with Nayo Tropicals that REEEP Project was mentioned to him and he decided to visit.

After a warm welcome by Winrock, the Medical Director enumerated the energy challenges faced by the hospital to include high cost of diesel, low patronage in the night due to fear of snake bites among others. He also said that the village is a traditional population with low income who could not access healthy until when free healthcare was introduced. Dr. Kazzar said that he felt that having 24hour light in the hospital will increase the health seeking behavior of the villagers as well as help reduce the amount spent on diesel which is estimated at N400, 000 monthly.

The COP, Mr. Segun Adaju introduced the team to the visitor and explained the objectives of REEEP Project. According to the COP, the project through banks and other investors will give refundable funds to project developers and other beneficiaries in achieving one of its objectives which is creating access to clean energy financing.

The COP told medical Director to prepare his proposals after which Winrock will conduct assessment of the hospitals' energy need and assured him that Winrock will link him with the partner banks and investors for assistance in due course.

REPORT ON THE MEETING WITH WINROCK AND MARKETS II

DATE: MAY 15, 2014.

VENUE: MARKETS II OFFICE.

ATTENDANCE:

Godson Ononiwu- Director, External Relations & Capacity Building, Markets II

Segun Adaju- COP REEEP

Tinyan Ogiehor- RE Technical Specialist

Hyginus Eze- M&E Specialist

AGENDA:

Collaboration and partnership

DISCUSSION:

The COP REEEP introduced his team to Mr. Godson Ononiwu, the Director, External Relations & Capacity Building, Markets II Project.

The COP stated that the purpose of the meeting was to discuss how Winrock can work with Market II partners in solving their energy need through creation of access to clean energy financing. He also provided 4 issues which formed the basics for the discussion. These included; conversion of bio products like rice husk to energy, fish smoking with solar, pumping for irrigation with solar and identifying with farmers group in Nigeria.

Mr. Godson was excited with the partnership and provided the detailed contacts of markets II partners in those 4 identified areas to Winrock. According to him (Godson) Markets II has large scale and small scale partners. The large scale farmers' partners were located in Benue, Kano, Abakiliki, Niger, Jigawa, Kebbi, Ibadan and Lagos while the small scale processors were mainly located in Abakiliki. He also made available to Winrock the contacts of all the major Agribusinesses and well as small scale agribusinesses in Nigeria.

On the farmers group, Mr. Godson told the team that Markets II work with the farmers in group and not on individual basis. The farmers according to him were grouped in regions with regional offices in Middle belt- Abuja, South- Lagos, North- Kano and East- Enugu. He also provided Winrock with the contacts of the regional managers.

The COP REEEP thanked the Director for his cooperation and assistance and informed him that these contacts will help Winrock to conduct assessment of these agribusinesses in order to determine their capacity to incorporate RE/EE into business. The meeting lasted for 1 hour (11am- 12pm).

REPORT ON THE VISIT OF FELICITY, MARKETS II STAFF IN- CHARGE OF PUMPING FOR IRRIGATION TO WINROCK.

DATE: MAY 19, 2014.

ATTENDANCE:

Miss Felicity- Irrigation Specialist, Markets II

Segun Adaju- COP REEEP

Tinyan Ogiehor- RE Technical Specialist

Hyginus Eze- M&E Specialist

DELIBERATIONS:

MARKETS II staff in-charge of Irrigation was in our office to follow up with our previous meeting with Godson.

The COP welcomed her informed her that the essence of the meeting was to further discuss how Winrock will support Markets II agricultural value chain using solar energy for irrigation pumps and asked if she could identify farms we can use as a pilot.

Miss Felicity stated that although irrigation is seasonal activities as the farmers do not need it during the rainy season, she suggested that we should meet with Mr. Aliyu Samaila, Head of Agricultural Productivity for further discussions on the collaboration. We contacted Mr. Aliyu and a meeting was scheduled for the next day.

REPORT ON THE MEETING WITH WINROCK AND MARKETS II

DATE: MAY 20, 2014.

VENUE: MARKETS II OFFICE.

ATTENDANCE:

Harvey Schartup – Managing Director Chemonics MARKETS II

Aliyu Samaila - Director, Agriculture Production

Bassey Archibong- Director, Household Economic Strengthening

Segun Adaju- COP REEEP

Tinyan Ogiehor- RE Technical Specialist

Hyginus Eze- M&E Specialist

AGENDA:

Collaboration and partnership

DISCUSSION:

The COP after the introduction stated that the purpose of the meeting was to discuss how Winrock can collaborate with MARKETS II in the area of pumping water for irrigation using solar energy which he believed that apart from pollution, it will be cheaper for the farmers. He also explained in details how these farmers can obtain finance for the technology from Winrock's partner banks

The Director, Agriculture Production, Mr. Aliyu Samaila thanked Winrock for the gesture but said that MARKETS II has an innovation which they have already initiated for the farmers which is pumping with motorcycle which is efficient. He also said that stationed solar technology may not be too useful as these farmers do lend their pumps to each other.

After many deliberations, it was agreed that Winrock should focus on the energy needs of the agribusiness processors other than the other irrigation farmers. Mr. Bassey Archibong, stated that MARKETS II has already conducted energy analysis of these processors and promised to share with Winrock so as to enable us plan.

The COP thanked the team for their support and solicited more cooperation in the future.

REPORT ON THE MEETING WITH ENERGY COMMISSION OF NIGERIA

DATE: MAY 20, 2014.

VENUE: ECN OFFICE.

ATTENDANCE:

Engr. Okon N. Ekpenyong – Deputy Director, Renewable Energy

Segun Adaju- COP REEEP

Tinyan Ogiehor- RE Technical Specialist

Hyginus Eze- M&E Specialist

AGENDA:

Collaboration and partnership

DISCUSSION:

The COP informed Engr. Ekpenyong that the visit was a follow up to the previous discussions as regards to the areas of interest shown by the Commission. He also told that Winrock will like to identify the energy research centres for the purpose of building their capacities and as well train RE/EE technicians at the centres.

Engr. Ekpenyong in his response stated that the Energy Commission needed to be assisted in the area of research. He mentioned that it could be of help if Winrock's budget can help them conduct feasibility study in the area of Renewable Energy in Nigeria because the result with the Commission is already outdated and other researchers keep recycling old data.

He also gave us the locations of the Energy centres in Nigeria with their specialties as follows:

Nsukka- Solar Energy, Sokoto- Solar Energy, Lagos- Energy Efficiency, Benin- Biogas, Ilorin- Hydro/ Biomass

Engr. Ekpenyong suggested that we should start with Nsukka and Sokoto which is fully operational and requested for Winrock's scope of work for them to know their areas of concern and promised to link Winrock with the centre's management whenever we are ready.

The COP thanked him for his support and informed him (Engr. Ekpenyong) that the kind of studies Winrock will conduct is going to be specific. According to the COP, Winrock will go to a hospital or sites that have market to carryout energy audit to determine their load demand for us to intervene.

**REPORT ON THE INSPECTION VISIT TO RIJE COMMUNITY IN KUJE AREA COUNCIL, FCT, ABUJA
BY WINROCK, HEINRICH BOELL AND RUBYCOM TECHNOLOGIES.**

DATE: MAY 22, 2014.

VENUE: RIJE COMMUNITY RIJE, KUJE AREA COUNCIL, FCT, ABUJA.

PARTICIPANTS:

Susanna – Heinrich Boell Foundation

Azeenarh Mohammed - Heinrich Boell Foundation

Osaze Ize-Iyamu – Rubycom Technologies

Tinyan Ogiehor - Winrock International

Hyginus Eze - Winrock International

PURPOSE:

Heinrich Boell in partnership with Creeds Energy invited Winrock International to assist in the inspection of Rije Community, carry out energy audit in the community so as to determine the best of renewable energy that should be provided to the community.

FINDINGS:

- The community is totally off grid
- All three hand pumps found in the community are no longer functional
- The stream is the only source of water to the community
- The stream is very unhygienic as it does not flow.
- The stream is close to 2 kilo meters away from the community.
- The stream often dries up during the dry season.
- They need electricity for charging of phones.
- They need basic solar lights.
- The village square needs to be lit up.
- The community from the interviews supported the use of solar energy in powering the water pump.
- They require renewable energy to dry food produce.

After the inspection, the team had a debriefing. The possible collaboration and partnership in empowering the community with solar pump for drinking as well as for irrigation deliberated upon as follows:

- Heinrich Boell Foundation with support from Creeds Energy will provide the fund.
- Creeds Energy and Rubycom Technologies will deploy the technologies while

- Winrock will support in the training of technicians preferably women of the community that will undertake the maintenance of the technologies.
- Winrock will provide technical assistance as regards the deployment of Renewable Energy technologies.
- Heinrich Boell Foundation will initiate a campaign for the planting of trees and the reduction in felling trees for firewood.

MEETING BETWEEN WINROCK AND THE NIGERIAN ENERGY SUPPORT PROGRAMME (NESP) – GIZ.

DATE: MAY 27th, 2014.

ATTENDANCE:

Daniel Werner – Programme Director, NESP– GIZ

Luis – Carlos Miro – Rural Electrification Advisor, NESP - GIZ

Segun Adaju- COP REEEP,

Tinyan Ogiehor- RE Technical Specialist

DELIBERATIONS:

The COP, Segun introduced the REEEP project to the members of the GIZ team in attendance, explaining in detail the 4 major components of the project. He stated that the main purpose of the meeting was for both organizations to understand better what they were handling as regards renewable energy enhancement in the country as well as find possible ways we can collaborate and improve the sector together without over flogging issues that have already been covered by the other party.

In response, Daniel proceeded to explain the components of the NESP's work in Nigeria. Stating they have 4 components as well and are as follows:

- Policy Reform on On-grid RE
- Energy Efficiency
- Rural Electrification
- Capacity Development.

He generally highlighted the major support and the involvement of the NESP with the Government of Nigeria.

1. Policy Reform:

- The review of the Nigerian grid codes

2. Energy Efficiency:

- Reviewing the National Energy Efficiency action plan as supported by ICREEE
- Extensive support work with the Federal Ministry of Housing and Urban Development as regards Energy Efficiency in the building sector for public and private structures.

3. Rural Electrification:

- Baseline study of the present rural electrification platform in Nigeria
- The introduction of the ISO51 energy standard
- Rural electrification work with 5 states and in 10 pilot projects across all 5 states.

4. Capacity Development

- Main training partner – NAPTIN with a couple of others under review.
- Setup of a technical training programme in Energy and Rural Electrification – A train the trainer scheme.
- 6 courses have been identified and are as follows
 - RE and rural electrification - - - 6 weeks
 - Solar PV course - - - 12 weeks
 - Small Hydro Power
 - Energy management for facility managers
 - Energy Auditing
 - Energy Efficiency in Building Design

He rounded up by mentioning that areas of possible collaboration will be in Policy reform with the GON with GIZ being involved at a strategic level and Winrock at an operational level. He said the most area of possible collaboration will fall under capacity building as both projects share this component uniquely.

Segun added that the addition of financial training to the capacity building component is key even as the NESP already provides technical training.

Carlos also contributed that another area of possible collaboration is in the Rural Electrification component. He identified that the NESP will identify unique and economically sustainable off-grid sites that will require financial support and Winrock would be of good support for this.

Daniel in conclusion thanked the Winrock team and stated that he will provide direct contacts of the key officers for Policy reform, Energy Efficiency and Capacity building on the NESP so we can have further engagement with them directly in the near future.

The COP thanked the team for their support and solicited more cooperation in the future.

REPORT OF THE VISIT OF CEO, GREEN VILLAGE ELECTRICITY (GVE) PROJECT LTD

DATE: MAY 28, 2014.

ATTENDANCE:

Ifeanyi Orajaku- CEO Green Village Electricity Project

Segun Adaju- COP REEEP,

Tinyan Ogiehor- RE Technical Specialist

Hyginus Eze- M&E Specialist

DELIBERATIONS:

The COP introduced the REEEP Staff and explained the objectives and components of the project to the CEO, GVE and requested him to share some of his field experiences to us.

Mr. Ifeanyi Orajaku said that the trainings he received from UNDP and Power Africa Initiative, has helped a lot in improving his project.

He said that he has a project in Mbeke, in River State which after the initial assessment, have deployed 6kw to that community and have developed a modular to scale it up to 25kw which will also include additional 24 communities in the state.

When asked by the COP how he sustains the project apart from the grants received, Mr. Ifeanyi said that the beneficiaries are charged 70 cents per kWh which is used for maintaining the technology with the assistance of the technician trained from the community and that it is repayable with repayment plan of 42 months. He also said that the project is in collaboration with River State Solar Energy Development Agency (RSSDA), and it is well supported in terms of security.

He mentioned grid interference and finance as the major challenges he face in his field and solicited for Winrock assistance in the area of finance mobilizations.

The COP thanked him for coming and assured him that Winrock will support him with finance through our partner bank when his proposal is received.

MEETING BETWEEN WINROCK AND THE RENEWABLE ENERGY PROGRAMME (REP) TEAM – FEDERAL MINISTRY OF ENVIRONMENT

DATE: MAY 30th, 2014.

ATTENDANCE:

Hajia Bahijjahtu – National Coordinator (NC), REP– Min of Environment

Segun Adaju- COP REEEP,

Tinyan Ogiehor- RE Technical Specialist

DELIBERATIONS:

The COP, Segun recapped on the previous meeting we had with the NC of the REP stating that Winrock's has two areas of interest it hopes to work closely with the NC on. These area are:

- Engaging with the appropriate GON bodies on improving the practices of the NCS as regards import of RE technologies and products.
- Developing and delivering adequate training/ capacity building programs to women on RE technologies.

In her response, the NC expressed her delight in these areas and immediately drew out a line of action. She stated the following:

- That a concept note should be developed on what Winrock will require for the women capacity building exercise in RE.
- She suggested that the modules of the Barefoot college be improved upon to add to Lighting, Cooking and Solar modules, finance modules be introduced.
- She mentioned that incentives will be given to women to participate in the training and the incentives of the sponsors will be that the women will purchase starter kits of their products which will come at a subsidized rate.
- She mentioned that the UNDP, Government of Japan and Panasonic Corp are ready to support the program in the near future.
- She indicated a concept where women who have graduated from the program will get a Rural Women Empowerment Scheme – RUWES Starter Pack. This they will go back to the rural communities to start work.
- She indicated that an advanced training will be a train the trainer scheme where selected women from the earlier scheme who have done exceptionally well in training will be trained such that they can train others and they will receive certification from the barefoot college after they have in turn trained at least 10 women.
- She indicated that in return the trained will be made to train others as well to aid continuity and sustainability.
- She suggested that both teams be able to develop a structure before August of 2014.

- She invited Winrock to the official launch of RUWES in Kaura community of Kaduna State, Nigeria on the 17th of June, so that Winrock can get a 1st hand feel of the current program.
- She stated that the RUWES initiative is going to cover only 6 states in 2014, but hope to expand nationwide by 2015.
- As regards the NCS, she immediately made a phone call to Eric (World Bank) to connect him with the COP so both teams can jump start the improvement of the activities of the NCS.
- She decided that she will send an introductory mail to both parties and Winrock can continue the conversation from there.

In conclusion, she thanked the Winrock team and stated that she will be excited if these two areas were achieved.

The COP thanked the team for their support and solicited more cooperation in the future.

MEETING BETWEEN WINROCK AND THE INTERNATIONAL CENTRE FOR ENERGY, ENVIRONMENT AND DEVELOPMENT (ICEED).

DATE: JUNE 10th, 2014.

ATTENDANCE:

Ewah Otu Eleri, ICEED– GIZ

Segun Adaju- COP REEEP,

Tinyan Ogiehor- RE Technical Specialist

DELIBERATIONS:

The COP, Segun introduced the REEEP project to the member of the ICEED team in attendance, explaining in detail the 4 major components of the project. He stated that the main purpose of the meeting was for both organizations to understand better what they were handling as regards renewable energy enhancement in the country as well as find possible ways we can collaborate and improve the sector together without over flogging issues that have already been covered by the other party.

He highlighted the possible areas of collaboration being:

- Working with the vocational training institutes on capacity development.
- Policy and regulation to improve the passing into law of more clean energy bills.
- Improving the project development pipeline for RE in Nigeria.

In response, Ewah highlighted the major support areas and the involvement of the ICEED as with other establishments as follows:

5. Capacity building and vocational training:

- He stated that ICEED and Energy Commission of Nigeria ECN recently signed an MOU to improve capacity development on clean cook stoves.
- ICEED has been involved in the training of senior scientists from ECN on the improvement of the clean cook stoves.
- ICEED has a fully functional stove testing facility in Afikpo with research staff of the ECN.
- ICEED in collaboration with University of Nigeria, Nsukka is developing a laboratory on the clean cook stoves.
- ICEED intends to improve capacity on the supply chain and value chain of clean cook stove producers and sellers.
- He called for a unification of certification as regards Renewable Energy capacity development.
- He stated that a unified certification program will improve market confidence and improve the RE network in Nigeria.

6. Policy reforms:

- ICEED led the coalition to the government to actualize the Renewable Energy Development Agency Bill (REDA). This bill was supported by the ECN and sponsored by Christian Aid.
- He stated that sadly the bill has not scaled through in the house but it has helped to greatly improve the awareness of renewable energy in the government.
- He stated that many IPPs have applied for PPAs and ICEED working in collaboration with the Nigerian Infrastructure Advisory Facility NIAF to question the non-existing status of the feed-in-tariff by the Nigerian Electricity Regulatory Commission NERC.
- He mentioned that a coalition can help re-address the REDA bill as well as provide the instruments to facilitate the incentives to improve more funding and foreign investments in the RE market.

7. Coalition building:

- He stressed the need for a very strong RE coalition in Nigeria.
- He said this coalition should cut across national and international stake-holders.
- He emphasized that the coalition is necessary to support the push to improve legislation of RE in Nigeria

8. Project development

- He stated that as regards project development, ICEED can most likely collaborate with Winrock on projects that center around cook stoves and solar technologies.
- He also mentioned that ICEED is looking into improving the consistency in the distribution of LPG around the country.

He rounded up by summarizing that areas of possible collaboration will be in Policy reform with the GON and other stakeholders in a coalition as well as capacity building

Segun added that a summary of the meeting will be sent to him and both parties should engage in more talks to streamline their activities.

The COP thanked him for his support and hinted that he will be invited for the upcoming launch of the REEEP project while soliciting more cooperation in the future.

DATA QUALITY ASSESSMENT TRAINING REPORT

DATE: JUNE 10th to 12th, 2014.

Executive Summary:

The REEEP M&E Specialist attended a 3 day Data Quality Assessment (DQA) organized for USAID IPs by the Nigeria Monitoring and Evaluation Management Services (MEMS II) from 10th to 12th June, 2014. The training covered areas such as data acquisition and transcription, performance data, indicators and PIRS development, data assessment criteria as well as practical DQA field visit.

Objectives of the training:

1. Understand the rationale of Data acquisition and transcription systems and their use to generate useful information for making efficient management decisions.
2. Gain in depth understanding of the key concepts of data structures and different types of data sets including quantitative, qualitative and mixed strategies.
3. Be aware of the processes of transforming raw data into information and further more into knowledge.
4. Be able to identify some common problems encountered when collecting and transcribing performance data for use in management decision making.
5. Develop familiarity with the key concepts used in Data Quality Assessment (DQA).
6. Gain understanding of Data Quality checklists and their use to assess the quality of the program performance data.
7. Have hands-on practice on how to perform Data Quality Assessment (DQA) of key performance indicators.

Day 1:

The first session of the day started with the introduction of the course, participants and the facilitators. The workshop protocols were set and the objectives of the training was given and was followed by pre- course assessment.

The second session dealt with Data Acquisition and Transcription. The participants were taken through the conceptual framework of quality data which includes the following stages; from data acquisition to data transcription, data processing and analysis and finally, generation of information for decision making.

The third and fourth sessions were on performance data and how to transfer data to indicator. This led to group exercise where the participants identified data from an indicator and used the data/information and developed PIRS and each group made their presentations.

Day 2:

The sessions for the day centered on Data Quality Concepts for Performance Management. The facilitator gave the meaning of data quality as a perception or an assessment of data fitness to serve its purpose in a given context. The facilitator also maintained that in ensuring

data quality, all the project staff should be involved because data quality is affected by the way data is collected, entered, stored and managed. The Participants broke in groups and carried out exercise on testing data quality assessment criteria after which each group presented the group work in plenary.

Day 3:

Day 3 was set aside for practical field visit for data quality assessment of 3 USAID IPs. The participants were shared in to three groups according to USAID Development Objectives. Group 1, 2, and 3 visited Economic Growth, Health and Governance respectively with DQA Checklist which guided the group in carrying out the assessment. After the visit, each group shared their experiences, submitted a DQA report and presented same.

Conclusion:

The USAID/ MEMS II DQA training was timely to REEEP Project because the knowledge of the training will help us to be on track with USAID requirements on every issues regarding data quality.

APPENDIX C: Crimson Capital Ecobank Training Report

REEP Mission Report Lagos, Nigeria, May-June 2014

Ilan Wolkov, Crimson Capital

This end of assignment report summarizes meetings with Eco Bank, Diamond Bank and Zenith Bank that took place during the period May 20 -26 2014, while Mr. Ilan Wolkov, a consultant of subcontractor Crimson Capital, was in Lagos.

Eco Bank Meeting SME:

Olowo Sunkanmi

Head, SME/Value Chain Banking

The first meeting with Eco Bank took place with Mr. Olowo Sunkanmi, Head of SME/Value Chain Banking, who is our point person/counterpart. He also helped us organize meetings with Corporate Banking, The Power Desk and the responsible parties for foreign funding. During this first meeting, we discussed the existing DCA in place with Eco Bank and utilization to date, as well as met with Mr. Olowo's subordinates in charge of the possible further expansion and utilization of Energy Efficiency and Renewable Energy.

During the meeting, Winrocks/Crimson Capital's strategy was to concentrate on continuing EE/RE operations and capacity building activities already started by Winrock, while expanding them to include a EE/RE desk within the SME department, with dedicated and trained staff to lead the effort and to act as internal multipliers and trainers. This plan met with ready ears and in principle was looked at positively. It was also agreed to focus on one of the four regions of Lagos for the start of the effort, and that our consortium would propose a work plan (see Annex A) and dates for training starting sometime in July.¹

There does seem to be interest on the side of the bank to increase their current DCA, even though to date, only three loans have been made under the existing facility.

A workplan put together by Ilan Wolkov, (see Annex A) was later presented and promoted by Segun Adaju to the bank, and was positively received by the bank. The next possible mission to Nigeria by Mr. Wolkov would be around 21st July to the 30th July to initiate the workplan.

Eco Bank Power & Energy, Local Corporates

Wese Obiabaka

The Power Desk deals with projects in the energy sector for investments of \$30 million and greater (some loans up to \$100 million) and caters to all energy related projects/lending including conventional/fossil based energy projects/companies.

Renewable Energy projects were discussed, and they seem to be of great interest to the department. This department could be a secondary off taker of future credit lines and DCAs

¹ Proposed dates for the next consulting trip are July 21st – 30th.

for large-scale projects. In addition they seemed interested to send participants to possible EE/RE training.

Diamond Bank Meeting

Chima Nnadozie

Head, MSME Propositions

Diamond Bank already has a DCA for health care provider investments and was generally satisfied with the training that they had during the setup of the DCA. Their main problem the bank faced in utilization of the DCA was the origination of projects from branches.

Despite the lower than expected disbursements on the health care DCA, they would like to enter into the EE-RE field and reacted positively to possible technical assistance in this area as well as to the establishment of a dedicated EE-RE team.

Next steps from the meeting were to present our workplan and further coordinate with USAID for arranging the new DCA.

Zenith Bank Meeting

Nosa Awusa

Senior Manager

Infrastructure & Power Sector Group

The Infrastructure & Power Sector Group unit within Zenith is currently financing larger power transmission projects, projects in the automotive industry and key infrastructure projects. The bank does not have a targeted EE-RE lending policy at the moment, they have however funded such projects as part of their past business.

We presented our ideas for EE-RE expansion and also explained the USAID DCA model, which was positively received as they felt that the sector has strong potential. They requested a workplan from us on possible TA in this area.

In addition the bank also had questions on international credit lines and financing options, which were answered by the consulting team.

Next steps will be to present our working plan and meetings between the bank and USAID.

Ecobank Meeting Contacts



APPENDIX D: REEEP Project Launch

REEEP PROJECT LAUNCH

REPORT OF THE USAID/NIGERIA RENEWABLE ENERGY/ENERGY EFFICIENCY PROJECT (REEEP) LAUNCH EVENT ORGANISED BY WINROCK INTERNATIONAL.

Date: WEDNESDAY, JUNE 25TH

Time: 3:10pm

Venue: Cross River Hall, Transcorp Hilton, Abuja

NOTABLE ATTENDEES:

- SHARON PAULING - DIRECTOR, ECONOMIC GROWTH AND ENVIRONMENT USAID
- IMEH OKON – AGREEMENT OFFICER REPRESENTATIVE, USAID
- PAUL BURMAN - SENIOR PROGRAM ASSOCIATE, CLEAN ENERGY GROUP, WINROCK INTERNATIONAL
- SEGUN ADAJU - CHIEF OF PARTY, RENEWABLE ENERGY AND ENERGY EFFICIENCY PROJECT, WINROCK INTERNATIONAL
- MR SUKANMI OLOWO (ECOBANK)
- EWA ELERI – DIRECTOR, INTERNATIONAL CENTRE FOR ENERGY ENVIRONMENT (ICEED)
- AMINU SULEIMAN TAKUMA (NIGERIA INVESTMENT PROMOTION COMMISSION)
- TALBA IMANUDEEN- (RENEWABLE RESEARCH AND DEVELOPMENT, NIGERIA ELECTRICITY REGULATORY COMMISSION)
- BECCA SHWARTZ (SOLAR SISTER)
- ERICK (WORLD BANK)
- FELIX NITZ (GIZ)
- ENGR. BAHIJJATU AHMAD (NATIONAL COORDINATOR OF THE RENEWABLE ENERGY PROGRAMME)
- FORTIS MICROFINANCE BANK
- MERCY AKEREDOLU – WINROCK REPRESENTATIVE, NIGERIA .
- MEDIA (GUARDIAN, PUNCH, NTA, AIT, AHEMDOO MEDIA CONSULT.

The event was held under the theme ‘Renewable energy and energy efficiency project’ where stakeholders in the power sector converged to chat a way forward towards an improved policy that would encourage the development and marketing of renewable energy in Nigeria.

1.0 WELCOME/ INTRODUCTION

Paul Burman, Senior Program Associate, Clean Energy Group, Winrock International presented the welcome speech. He gave a brief overview of Winrock International - its Mission, programme Scope, Achievements etc. He stated that Winrock has been working on energy projects globally for over 30

years, noting that a great percentage of Nigerians have No access to quality electricity, hence the need for renewable energy. Winrock intends to achieve this by working with government to provide incentives for all Nigerians

2.0 OPENING ADDRESS

The Director of Economic Growth, United States Agency for International Development, Ms. Sharon Pauling, while declaring the workshop open, said that USAID's renewable energy project would among other benefits facilitate the development and financing of the project, as well as promote energy efficiency market.

She emphasised that REEEP is in line with the Federal Governments strive for rural electrification and renewable energy. In the light of challenges being faced by the country, she opined that it is critical for energy sources to be diversified. She concluded by thanking all stakeholders in attendance as well as adding that REEEP is a part of United State Power Initiative for Africa.

Pauling noted that Winrock would through the project provide technical assistance that would contribute to its broader goal of developing renewable energy in the Nigerian market.

3.0 OVERVIEW OF REEEP

A representative of Winrock international, Mr. Segun Adaju, who gave an overview of the project, said apart from providing technical support to stakeholders, it (the project) would also benefit the agricultural sector, banks as well as providing alternative sources for the fight against HIV AIDS.

Adaju also urged banks to key into the project by doing business with the clean energy sector.

He said, "With our 75 per cent target for the use of renewable energy in Nigeria, a well improved government policy would be required to actualise this project.

"There is a need to have policies that would help to develop the sector and promote the efforts of renewable energy in the country as it is done in countries like Kenya and South Africa where duties on technology has been abolished."

He said the team was currently discussing with the General Hospital at Abaji in the Federal Capital Territory to introduce solar energy.

COMPONENTS OF REEEP

(I) Access to clean energy financing: this is aimed at developing the capacity of companies in the clean energy sector and other selected sectors to access financing through training on accessing finances, technical support and RE solutions, supporting and monitoring.

(II) Technical assistance to financial institution through capacity building and exposure to credible technology and partners.

(III) Training and Awareness Creation: promoting gender inclusive vocational training, partnership with other organisations etc.

(IV) Self Governance: implementing legislation that enables RE development and supporting Government implementation of zero import duty (NCS)

BENEFICIARIES

(i) Banks and Financial Institutions

(ii) Companies that deploy and maintain clean energy projects

(iii) Vocational training institutes

(iv) Other USA/Nigerian projects

4.0 GOODWILL MESSAGES

- Mr Sukanmi Olowo (ECOBANK): ECOBANK takes RE as a very serious issue as the Bank is into sustainability Finance. The bank has a focus but faces challenges of unqualified entrepreneurs who lack focus. In his words, most of them are mere 'dreamers'.
- EWA ELERI (ICEED): About a hundred (100) million Nigerians live literally in the dark and this increases annually. He pledged his organisations (ICEED) readiness to partner Winrock international in the struggle for renewable energy. He said only about 18% of Nigerians have access to power, stressed that Renewable Energy was to actualise government's 75% connection target by 2020 .
- AMINU SULEIMAN TAKUMA (NIGERIA INVESTMENT PROMOTION COMMISSION): he noted with dismay that financial institutions make it almost impossible a task for investors to gain access to finance in Nigeria and this has posed a major challenge for RE. In the course of the launch, NIPC gave the project a lifeline, urging entrepreneurs seeking custom duty wavers to apply through the commission.
- TALBA IMANUDEEN- (RENEWABLE RESEARCH AND DEVELOPMENT, NIGERIA ELECTRICITY REGULATORY COMMISSION): in his view, most entrepreneurs do not have the knowhow to carry out projects and this poses a major challenge to RE drive. He further stated the commission is doing its best towards Renewable Energy and as such, all arrangements have been concluded for the kickoff of the Renewable Energy policy in Nigeria by July.
- BECCA SHWARTZ (SOLAR SISTER): emphasised the fact that moneys can be saved in the long run if Renewable Energy is adopted and people no longer spend on firewood, kerosene etc.

- ERICK (WORLD BANK): RE is about empowering Nigerians and the World Bank is committed to this cause by trying to make the national grid work/enlarging it and mobilizing efforts to finance projects.
- FELIX NITZ (GIZ): stressed the need for private financing in renewable energy

5.0 KEYNOTE ADDRESS BY ENGR. BAHIJJATU AHMAD (NATIONAL COORDINATOR OF THE RENEWABLE ENERGY PROGRAMME)

In her address, she noted these points:

- (i) The reason for the RE program has to do with more than just lighting, it also involves cooking and transportation.
- (ii) Renewable Energy does not need government financial support, rather it needs enabling policies and enlightenment.
- (iii) Renewable Energy is a business of saving lives as well as making money.
- (iv) Nigeria is the biggest home for green energy, as such all stakeholders must collaborate.

6.0 CLOSING REMARKS

Dr Mercy Akeredolu gave the closing remark. In her words 'A baby is born (REEEP) and networking is the key factor needed for it to succeed. For any business to thrive, there must be Energy and that buttresses the need for RE'.

7.0 CONCLUSION

Vote of thanks was delivered by Segun Adaju, Chief of party, Renewable Energy and Energy Efficiency Project, Winrock International, after which participants and guests converged for light refreshment and photo shoot.

8.0 RAPPORTEURS SUMMARY

Overall, the launch was very successful regardless of time constraint. REEEP is an initiative that must be developed if Nigeria must be at par with her foreign counterparts as well as African neighbours, i.e. Kenya and South Africa. Policies must also be put in place to facilitate actualisation of Nigeria's 75% target on use of renewable energy.

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• L-R: Director, Seplat Petroleum Development Company Plc, Mr. Michael Alexander; Chairman, Dr. Ambrosio Orjiako; and Chief Executive Officer, Seplat, Mr. Austin Avuru, during the Annual General Meeting of the company in Lagos... on Monday. Photo:Seplat

'100 million Nigerians have no access to electricity'

Friday Olokor, Abuja

THE Director, International Centre for Energy and Environment Development, Mr. Ewa Eleri, has said about 100 million Nigerians have no access to electricity.

He disclosed this in Abuja during a one-day workshop on renewable energy, organised by Winrock International.

The event was held under the theme 'Renewable energy and

energy efficiency project' where stakeholders in the power sector called for an improved policy that would encourage the development and marketing of renewable energy in Nigeria.

Eleri said only about 18 per cent of the Nigerian population had access to power.

He also shared the view of other stakeholders on renewable energy, stressing that it was to actualise the government's 75 per cent connection target by 2020.

He regretted that

unlike Kenya and South Africa where government policies had promoted the development of renewable energy, Nigeria had yet to put in place policies that would work towards the actualisation of its 75 per cent target on use of renewable energy.

According to him, the sector needs policies that will create players who can promote renewable energy.

A representative of Winrock International, Mr. Segun Adaju, who gave an overview of the project, said apart from providing technical support to stakeholders, it (the project) would also benefit the agricultural sector, banks as well as providing alternative sources for the fight against HIV/AIDS.

Adaju also urged banks to key into the project by doing business with the clean energy sector.

He said, "With our 75 per cent target for the use of renewable energy in Nigeria, a well improved government policy would be required to actualise this project."

"There is a need to have policies that would help to develop the sector and promote the efforts of renewable energy in the country as it is done in countries like Kenya and South Africa where duties on technology has been abolished."

He said the team was currently discussing with

the General Hospital at Abaji in the Federal Capital Territory to introduce solar energy.

"Also, we in talks with some Nigerian banks to finance and do business with the clean energy sector," he added.

The Director of Economic Growth, United States Agency for International Development, Ms. Sharon Pauling, while declaring the workshop open, said that USAID's renewable energy project would among other benefits facilitate the development and financing of the project, as well as promote energy efficiency market.

According to her, it will also enhance the capacity of key stakeholders, including financial institutions and universities.

Pauling noted that Winrock would through the project provide technical assistance that would contribute to its broader goal of developing renewable energy in the Nigerian market.

The representative of Nigeria Independent Power Company, Aminu Takuna, said it was regrettable that many Nigerian banks were reluctant in financing renewable energy projects.

He disclosed that there was an ongoing policy reform in the renewable energy sector, adding that the NIPC would soon forward it to the National Assembly.



LAW— President Goodluck Jonathan flanked from the left by the Director of the Commission, Ms Chinelo Anohu-Amazu; Vice President Namdi Sambo of the Democratic Party, PDP National Chairman, Alhaji Adamu Muazu and Chief Justice Adoke, while signing the 2014 Pensions Reform Bill into law at the State House on Tuesday.



USAID to assist Nigeria in Renewable Energy Project

BY JOHN BOSCO AGBAKWURU

ABUJA—THE United States Agency for International Development, USAID, has promised to assist the Federal Government in renewable energy project for the promotion of energy efficiency market.

The Director of Economic Growth, USAID, Sharon Pauling, who disclosed this, yesterday, while declaring open a one-day workshop organized by WINROCK International, stated that USAID's renewable energy project would among other benefits facilitate the development and financing of the project.

She said it will also promote energy efficiency market, adding that it would also enhance the capacity of key stakeholders, including financial institutions, universities and give grants.

Pauling noted that WINROCK would through the project provide technical assistance that would contribute to

its broader goal of developing renewable energy in the Nigerian market.

Pauling assured that over 30 new commercial loans would be granted to small and medium scale enterprises for the purchase of renewable energy products, adding that training opportunities would be given to over 100 in the sector.

In his remarks, the representative of WINROCK International, Segun Adaju in his overview of the project disclosed that apart from providing technical support to stakeholders, the project would also be of immense benefit to the agriculture sector banks as well as providing alternative sources for the fight against HIV/AIDS.

Adaju maintained that it was only an improved policy on renewable energy that would help it actualize the goals of the project.

He urged banks to key into the project by doing business with the clean energy sector, stressing that it has already started business with some Nigerian banks, which he noted have agreed to invest in the clean energy sector.

Bill of PLCs passes second reading in House of Reps

Expected to be listed on the Nigerian Stock Exchange, NSE.

The motion, promoted by Rep Chris Emeka Obogbo, is entitled: 'A Bill for an act to provide for the listing of private companies whose shareholders' interests exceed N40 billion and whose annual turnover exceeds N80 billion or whose total assets exceed N80 billion to convert to public liability companies and get their shares listed in the stock exchange, thereby promoting growth for both the companies and the Nigerian Capital Market and for other related matters.'

He said: "If proper fundings are given to business owners or small companies in the country, it would help to build up strong business institutions that will reduce the rate of unemployment," he said. He added that the bill seeks to regulate private companies.

In his contribution, Rep Fort Dike, PDP, Anambra, who spoke against the motion advised the sponsor to dump it.

"The bill did not take so many things into consideration. It is anti business to force individuals to go into the stock exchange. This bill should not be allowed to scale through because it will be in conflict with the general ideas of investment in the country. This bill will make the parliament look like it lacks business knowledge," he said.

Rep Ossai Nicholas Ossai, PDP, Delta who rose to support the bill, noted that local businesses would begin to grow, if such companies are duly listed on NSE.

"It will empower Nigerians. It will enable Nigerians participate in the country's economy. It is in line with international best practices. The bill should be passed so as to improve enterprise in the country," he added.

RDS SITUATION

The biggest mistake people make is to make a living at it, they simply endure making the most of it. They try to hang on to it, because you're proportional to the demand from what you do.'

S/NO	Project/Community Name	Lead Implementing Facilitator	Company/Community size - number	Industry	Location	Renewable Energy availability	Present energy sources	Proposed project	Expected output/impact	Any other details/needs	Organizations with technical expertise	Contact Name, email, phone	Estimated Project Size (NGN/\$)	Type of Assistance Needed	Probability of Closing?
1	NNPC Mega Stations	NNPC Retail dept.	37 Mega stations in various states of the federation	Oil & Gas	Country wide	Solar	Diesel powered generator and Electricity	To power the equipment of all Mega stations with solar power	Improved efficiency, increased savings,	Meeting held with Rubycom, Winrock and NNPC	Rubycom Tech Ltd	08029921118		RE Finance, Feasibility studies	20%
2	General Hospital, Abaji	FCT Health Management Board	Health service to over 100,000 people	Health	Abaji	Solar	Epileptic electricity supply and short daily use of diesel generator	To power the light points and critical hospital equipment	Increased access to health services	Visit in progress	Nayo tropical Technology	08097875304	N5,915,000/\$36000		10%
3	Egbeke community	Rivers State Sustainable Development Agency	Over 100 houses	Agriculture	Etche LGA, Rivers State.	Solar	Off grid community - sporadic uses of generators	To create a solar mini-grid that will power a remote community	Access to electricity	Visit in progress	GVE Limited	08064075280			10%
4	Afebabalola University, Ondo State.	The VC	Over 3000 students annually	Education	Ado Ekiti	1 MW Small Hydro Power	Diesel powered generator and Electricity	To power laboratories and LTs with small hydro	Improved efficiency, increased savings,	Visit in progress	Afebabalola University, Ondo State.				5%
5	Niger State	Tsoede Rice farming cooperative	Over 200 rice farmers	Agriculture	Doko, Bida, Lavun	Solar	Lack of water	Solar powered borehole	Increase in yield	Visit carried out	Onyx Rice mill	Alhaji Musa Ndache		RE Finance	20%
7	Oyo State college of Agriculture	The provost	Over 3000 students annually	Education	Igboora, Oyo State.	Solar	Diesel powered generator and Electricity	To power laboratories and LTs with solar power	Improved efficiency, increased savings,	Visit in progress	Oyo State college of Agriculture	08033786712			5%
8	Solar Roof Tops/Lease	Ecobank	100 Homes and 25 offices	All sectors	Nationwide	Solar and Inverter backup systems	Diesel powered generator and Electricity	Consumer finance for RE products	Improved efficiency, increased savings,	Meeting with the bank in progress, toolkit to select Proj developers in making	Nayo tropical Technology, Blue Camel, Creeds and Rubycom				30%