



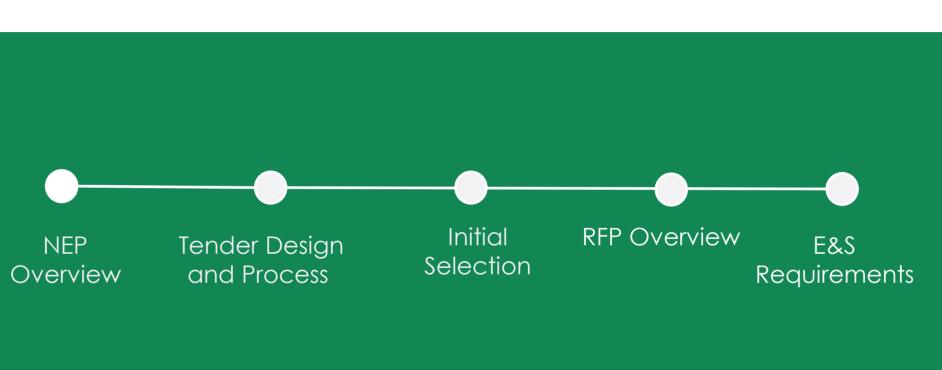
RURAL ELECTRIFICATION AGENCY

ENERGY = EMPOWERMENT = EFFICIENCY

NIGERIA ELECTRIFICATION PROJECT MINI GRID TENDER

April 2019

PRESENTATION AGENDA



NEP Overview



NEP OVERVIEW

Objective: Increase access to electricity services for households, public educational institutions, and micro, small and medium enterprises throughout Nigeria

US\$350 million facility with 4 components









Component 1: Solar Hybrid Mini Grids for Rural Economic Development

- Minimum subsidy tender
- Performance-based grant on rolling-basis

Component 2: Standalone Solar Systems for Homes, Enterprises

- Output Based Grants for SHS installed and verified
- Market scale up challenge fund for rapid market expansion

Component 3: The Energizing Education Programme (EEP)

Support the construction and operation of solar hybrid mini grids for federal universities and adjoining teaching hospitals under Phase II of the Programme.

Component 4: Technical Assistance

Support project implementation, broad-based capacity building, and help develop a framework for scaling up rural electrification.

Tender Design and Process



Programme Design

OBJECTIVES

- Develop mini grids on a build-own-operate model and catalyze mini grid deployment at scale to kick-start the market
- 250 sites to be tendered based on geo-referenced data on population clusters and sites, including population density, number and type of productive end-uses, productive loads and estimated load profiles

PROGRAMME DESIGN

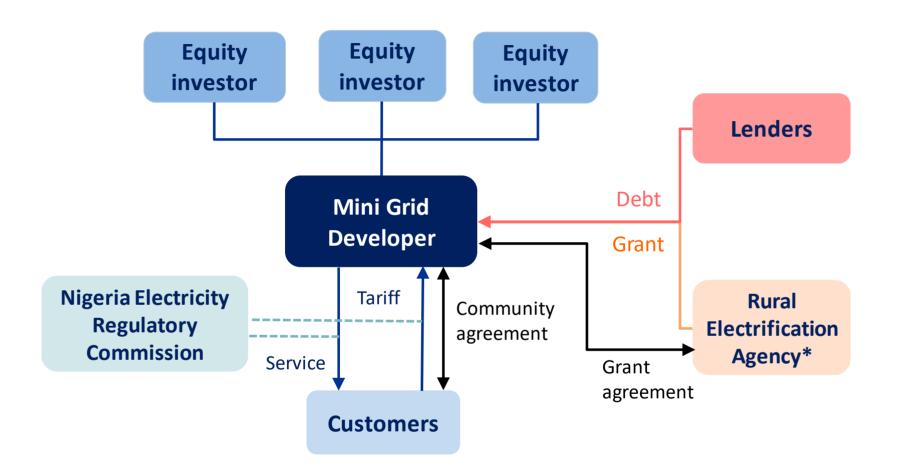
- Phase 1: Tender for 57 sites across four states: Niger, Sokoto, Ogun, and Cross River states
- **Phase 2:** Scale up to complete 250 sites across these four states



Phase 1 tender expected to bring clean energy to:

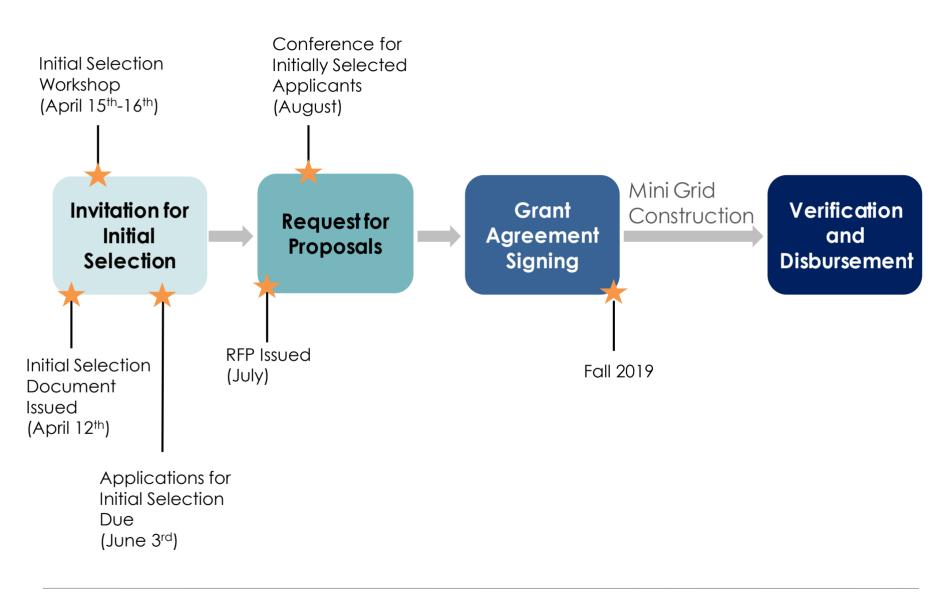
- 20.000 households
- 1,000 small and medium businesses and public institutions

Mini Grid Business Structure Under Tender



^{*} Technical compliance involves coordination with the Nigeria Electricity Management Services Agency (NEMSA)

Tender Implementation Process



Initial Selection Overview



Initial Selection Process

- Initial Selection Document is available at: http://rea.gov.ng/mini-grid-tender
- Initial Selection Document is also avaibale for free at REA's office, and can be couriered for a fee (to cover delivery costs)
- Applications should be submitted in hardcopy. Applicants should provide:
 1 original, 2 copies, and 1 soft copy (flash drive, memory card and CD)
- Applications for Initial Selection are due on June 3rd
- Requests for clarifications will be accepted until May 20th
- Requests for clarifications should be made in writing to: nep@rea.gov.ng
- Applications should include:
 - Completed forms
 - Evidence required to show that the Applicant is eligible and qualified

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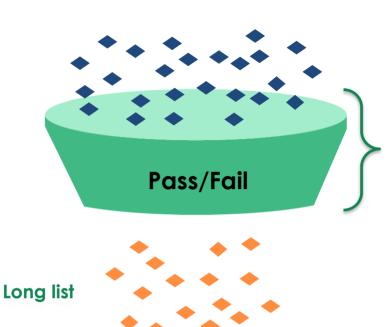
Initial Selection Criteria

Initial Selection Criteria Categories

- 1. **Eligibility**: world bank eligibility, absence of conflicts of interest
- 2. Historical contracts and litigation: pertaining to history of non-performance and litigation of the Applicant
- 3. **E&S compliance**: requirement to show compliance with World Bank and REA safeguards
- **4. Technical capacity**: relating to the experience of the Applicant in developing and operating minigrids
- **5. Financial capacity**: relating to the Applicant's capacity to secure financing (equity and debt)



Initial Selection – Maximum 20 Initially Selected Applicants



If long list > 16, ranking of Applicants



Max. 20 Initially selected Applicants

Pass/fail Criteria

Technical (met by 1 JV member)

Financial (met by JV)

- ✓ Developed
 ≥ 2 mini
 grids of
 more than
 10kW since
 2014
- ✓ Operated
 ≥ 2 mini
 grids of
 more than
 10kW since
 2014

- ✓ Good financial position
- At least **USD 1**million in liquid
 assets (or NGN
 equiv.)
- ✓ Having raised ≥ USD5 million (or NGN equiv.) in debt for ≥ 2 infrastructure projects since 2014

Other (met by each JV member)

- ✓ Eliaibility
- ✓ Historical contracts and litigation
- ✓ E&S compliance

Scoring Criteria

Technical

- ✓ Number of mini grid projects developed ≥2
- Number of mini grid projects operated ≥ 2

Financial

- Liquid assets ≥ USD 1 million
 (or NGN equiv.)
- ✓ Number of projects where ≥ USD5 million(or NGN equiv.) in debt has been raised ≥ 2

Initial Selection

Initial Selection for 1 lot only

- At the Initial Selection stage, Applicants are selected to submit a proposal for any one lot only
- At the RFP stage, any Initially Selected Applicant wishing to submit a proposal for more than one lot will be required to prove that it meets the aggregate financial capacity requirements for the combination of lots that it submits a Proposal for

RFP Overview



RFP Requirements

Main Tender Design

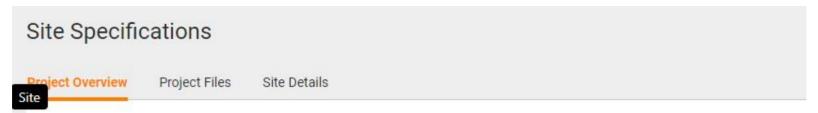
- Proposals evaluated on the basis of quality (technical proposal) and price (minimum subsidy required) to build, own and operate a mini grids
- One proposal per lot to serve all the sites in each lot
- Pre-defined number of connections
- Proposals should include a system design that best fits the demand profile
- 4 mini grid system architectures:
 - REA will match each site to one or more suitable system architectures, according to its load profile
 - Initially Selected Applicant may confirm a system architecture suggested by the REA for justify another system architecture

Conference for Initially Selected Applicants

The full details of the tender will be presented to Initially Selected Applicants during the conference for Initially Selected Applicants. This will include:

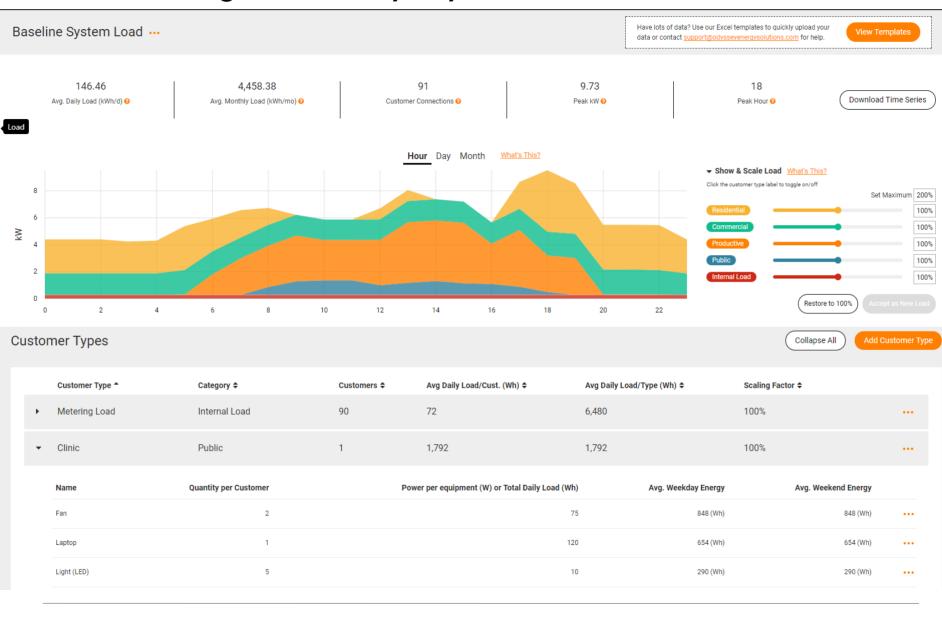
- Market intelligence collected
- Lot allocation
- Requirements of the technical proposal
- Minimum technical requirements
- Evaluation criteria

Market Intelligence on Odyssey - Site Geolocation

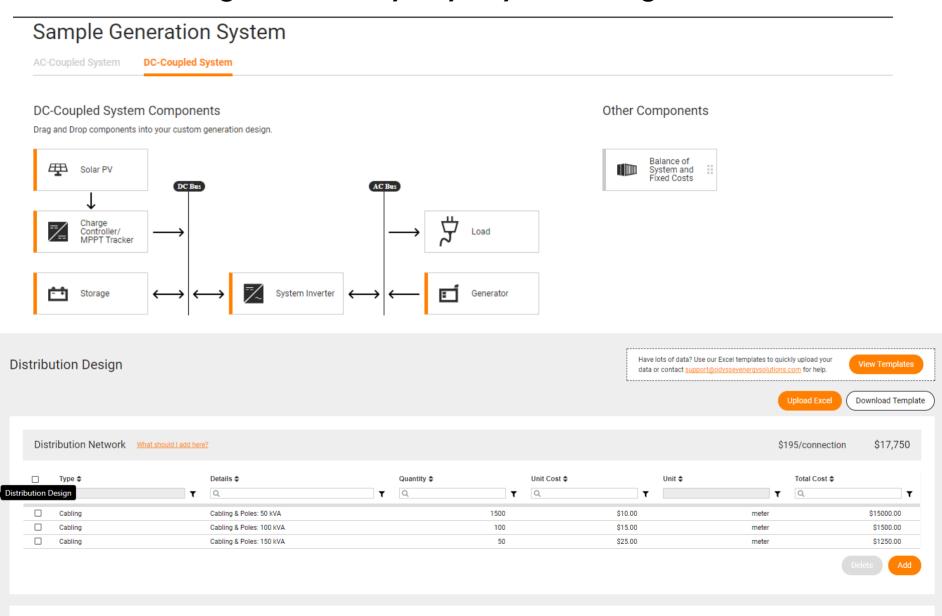




Market Intelligence on Odyssey - Load Data



Market Intelligence on Odyssey - System Design



Overview of E&S Requirements



E&S WORKFLOW

Site Selection

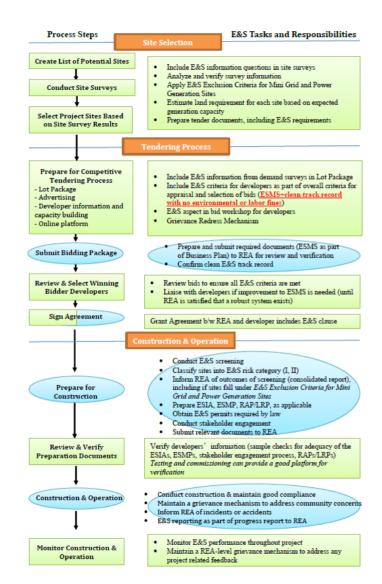
 REA applies E&S exclusion criteria when selecting sites for the mini grid tender

Tendering Process

- As part of the bidding package, developer submits ESMS
- REA reviews ESMS and ensures that all E&S criteria are met

Construction & Operation

- After bid award, developer conducts E&S screening, prepares ESMP or ESIA, as applicable, and obtains required E&S permits
- Verification of developer's E&S information by REA and monitoring for continued compliance





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For further information please contact:

Damilola OgunbiyiManaging Director/ CEO

RURAL ELECTRIFICATION AGENCY damilola.ogunbiyi@rea.gov.ng

Adejoke Odumosu

Head, Project Management Unit (PMU) Nigerian Electrification Project (NEP) RURAL ELECTRIFICATION AGENCY adejoke.odumosu@rea.gov.ng

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