CLEAN ENERGY INVESTMENT ACCELERATOR

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CEIA Presentation to PHILRECA, Baguio City

September 6, 2018

Supported by:

Federal Ministry for the Environment, Nature Conservation and Nuclear Safety

based on a decision of the German Bundestag

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NREL NATIONAL RENEWABLE ENERGY LABORATORY

Menu on Potential Training Topics

General Proposed Training and Advisory Approach

- The CEIA team can provide support to ECs on various **strategies, tools, and approaches to meeting their targets** under the new on-grid Renewable Portfolio Standard (RPS).
- We would **start by building a baseline understanding** via in-person training on the key opportunities and challenges with meeting the RPS from a business perspective and a presentation and discussion on RE business case analysis.
- The CEIA could then offer a **variety of support on conducting RE project analysis, near-term and long-term planning, and complementary utility programs** via a mix of trainings, webinars, and remote advice.

Three Learning Themes

Theme 1: Baseline Understanding

Key elements:

- RPS requirements and overview of RE procurement options that can be used for compliance and challenges and benefits of each
- Market and RE business case analysis and mechanisms to improve project economics and mitigate risks

Theme 2: RE Project Analysis and Planning

Key elements:

- Deep-dive financial and project performance, including estimating RECs
- Identifying renewable resource locations using GIS tools
- Guidance on PPA contracting
- Long-term planning and grid integration

Theme 3: Utility Programs

Key elements:

- Deep-dive on the Green Energy Options Program, including interactions with the RPS and potential for driving private sector investment
- Incentivizing distributed renewable energy generation

Theme 1: Baseline Understanding

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IA. RPS Requirements and RE Procurement Options:

- Implications of the RPS on ECs resource procurement plans
- Various mechanisms available to ECs to meet the RPS including through direct investments, power purchase agreements, unbundled REC purchases, and the green tariff program
- Discussion of the various challenges and benefits of each renewable energy purchase option

IB. Market and RE Business Case Analysis:

- Presentation of market analysis based on working with ECs to collect real project data where available to understand current economics
- Mechanisms to potentially improve power purchase prices, including aggregated purchases, and risk mitigation mechanisms

Theme 2: RE Project Analysis and Planning

2A. Deep-Dive Financial and Project Performance Analysis, Including Estimating REC Output:

- In-depth RE project performance and financial feasibility analysis, including how to estimate future MWh/REC output using software such as System Advisor Model (SAM).
- Could involve modeling battery energy storage systems to time-shift renewable generation, or system efficiency improvements to improve the output of existing biomass generators.

2B. Renewable Resource Site Assessments:

- Using a variety of tools such as the Renewable Energy Data Explorer (RE-DE), regions can be evaluated for their availability of solar, biomass, hydro, and wind resource availability. Other factors like land-use and natural hazards can also be incorporated into this analysis.

[Insert screenshots of SAM and RE-DE]

Theme 2: RE Project Analysis and Planning

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2C. Guidance on PPA Contracting:

- Best practices for Request for Proposals (RFP) to solicit competitive bids to develop and maintain a renewable generator
- Key Elements of Power Purchase Agreements (PPA) and elements for enabling provision of grid services from renewable energy projects

2D. Long-Term Planning for RPS and Grid Integration

- Methodologies for long-term scenarios and planning and operational practices to support RE integration on dist. grids

Theme 3: Utility Programs

3A. Experiences with Green Tariffs:

- Deep-dive discussion on the Green Energy Option Program and implication for meeting the RPS
- Include discussion of implications of REC ownership on driving corporate procurement
- Exchange of experiences from other markets and potential implications for the Philippines

3B. Incentivizing Distributed RE

- Discussion of a variety of ways in which ECs can support deployment of distributed renewable energy generation within their territories, including via permitting processes

Discussion

Questions to the Group:

What are the biggest challenges you perceive in implementing the RPS?

What types of information, tools, or other support would be most useful to you?

What modes of learning and information are preffered (workshops, webinar, remote advice, tools)

Are there other partners you would like us to bring into this effort?

Which persons from your EC would be most appropriate for the trainings or should we target different groups/roles for different trainings?