Renewable Energy Performance Benchmarks

January 12, 2011

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Recap

Review Proposal Framework

Support full range of technologies 20MW and under

> % funds development support and cross cutting efforts (~12% to 24-36%)

Reset generation goal / performance benchmarks

Custom project pool $3-$4M (RFP, loan fund, teaming initiatives…)

Standard incentives

Brings better projects to stronger markets

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Timeline

- January 12 – meet with RAC, review concepts
- Work with OPUC throughout Q1
- March 9 – update to RAC
- March 30 – draft benchmarks to Energy Trust Board

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Proposed Methodology

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- How are we achieving our mission today?
- Measure activity we influence at different points along development timeline

Installed	In Progress
• Early stage assistance only • Project incentive	• Actions reduce barriers • Quantitative & qualitative measures

- Results in benchmarks for each category

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Measures of Installed Generation

- Set a range of installed generation vs. one number
  - For example, 1.5 – 2.75 aMW (uncertainty of tax credits and grants)
  - Historical data plus likely conditions

- Track projects with early stage support only – was our help critical to success?
  - Evaluation interviews
  - Limited data to forecast what this could become

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Measures of Progression

I. Table of market barriers, our actions/impact, measure of influence
   - 5 general categories, overlapping
   - Example of small RE in general, technology specific variations needed
   - Failures can be informative

II. How do actions and measures vary by technology?

III. What are appropriate measurement time spans?

IV. Flexibility to reflect external changes?

V. Define baseline and evaluation plan

➢ Mix of quantitative and qualitative results, narrative of how the market has improved

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Examples

Barrier	Our Approach	Measurement
Lack of Awareness	Targeted scoping and feasibility studies	- A new market segment is participating in studies - > % studies transition to next phase
Cost	Assist with leveraging other resources	- # of successful team building arrangements demonstrated
Delivery Market Health	Foster a “pool of experts” and cost share with project	- Developers find the process simpler
Regulatory	Outreach/education to project owners	- Reduced timeframes, fewer delays
Time and Interest	Streamline our processes to participation	- Reported satisfaction with the process

Considerations

- External influences require us to be flexible, measures should allow for flex (e.g. 4 out of 7 approach)
- Interaction of barriers complicates measurement of progress
- Focusing on trends vs. absolute numbers
- Keep evaluation component targeted, efficient, not overly complicated

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Resulting Options for Benchmarks

Two categories;

1. Installed generation
   - Installed generation as a range
   - Early stage impact on installations tracked initial years
2. Measures of market development progression
   - Mix of measures include quantitative trends plus qualitative characterizations
   - Evaluation component

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Next Steps