Energy Storage in Capacity Planning & Resource Adequacy

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for the

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Broad Expertise

We develop, own and operate large-scale renewable and other clean energy generation and storage facilities in North America, Latin America, Japan and Europe.

* As of May 1, 2017; includes projects that are operating, in construction or contracted. Renewables include wind, solar and storage.
Storage Market Evolution

Balancing & Ancillary Services

- FERC Order 755 & 784
- Why PJM?
- Solar Integration – PR & HI

“Capacity”

- CA Resource Adequacy
- “Capacity Performance”

Reliability & Multiple Services

- Glacier - PSE
- BQDMP - ConEd
Barriers to Next Wave

What is “Flexible Capacity”?
• Serving the Peak
• Optimizing the Fleet
  • Ramping
  • Incremental & Mobile Installations

Additional FERC Activity
• RM17-8: Interconnection
  • Grand Ridge Energy Center
  • Supply vs. T&D
• RM16-1 & 16-6: Frequency Response & Reactive Power

Technology Advancements
• Carts & horses, chickens & eggs
We are Invenergy.

Working towards a clean energy future.