Grid Scale Energy Storage – Enabling the Clean, Unbreakable and Resilient Grid

AES Energy Storage

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November 19, 2015
AES – 8 Years of Operating Grid-Scale Advanced Storage
Creating a Clean, Unbreakable Grid

• Industry fundamentals are changing, lot more emphasis on flexibility of supply – Bloomberg estimates 13 GW flexible capacity need in US by 2020.
• Existing market constructs for capacity do not directly value flexibility.
• Rules for storage participation in capacity markets not fully clear.
Energy Storage for Capacity Needs

**100 MW capacity** *(rendered)*

200 MW of flexibility *(discharge + charge)*

**Project Description:**
- 100 MW advanced battery array in Southern California
- Provides local capacity reliability
  - 4 hour duration
  - 24x7 flexible resource
  - No emission or water
Storage Provides Benefits Across Generation & Transmission (G & T)

- Process and regulatory framework for market participants to realize benefits across electric functions (G & T).

- Ability to utilize energy storage for providing both transmission reliability needs and grid ancillary services.