Panel Session: Rate, Tariff, and Market Design for Energy Storage

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Background

- Energy storage is a unique power system asset that can 'behave' like a generation, load, transmission, and/or distribution asset
- Some services that storage can provide are priced in markets, others are not
- Traditional regulatory and market approach treats assets as either being market- or rate-based, which may not be suitable for energy storage

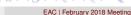




Aims

- Raise the problems created by historical market, rate, tariff, and regulatory designs as they pertain to energy storage
- Discuss potential ways to monetize different value streams
- Survey previous challenges and experience in addressing these issues
- Recommendations for further reforms or study





Hisham Othman



- Vice President, Transmission and Regulatory Services, Quanta Technology
- 30 years of experience in the electricity sector with Quanta, SunEdison, Petra Solar, ABB, GE
- Providing introductory framing for the panel, storage-development experience, discussion of storage-value assessment and valuation



Scott Baker



- Business Solutions Engineer, PJM Interconnection
- Evaluates emerging technology and policy issues in the electric industry
- Recent works focus on market evolution related to demand response, distributed energy resources, and energy storage
- Providing an ISO/RTO view on challenges and opportunities in integrating energy storage into wholesale markets





Commissioner Carla Peterman



- Commissioner, California Public Utilities Commission
- Assigned Commissioner for numerous proceedings including energy efficiency, alternative transportation, energy storage, and rate cases
- Previously a Commissioner with the California Energy Commission
- Providing an overview of California's experience in energy storage development



Arnie Quinn



- Director of the Office of Energy Policy and Innovation, Federal Energy Regulatory Commission
- Held other positions at FERC in the Office of Energy Policy and Innovation and the Office of Enforcement
- Providing an overview of Federal regulatory developments related to energy storage



