



2018

**Transactive
Energy
Systems**

CONFERENCE & WORKSHOP

June 12-14, 2018
MIT, Cambridge, MA

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Panel Questions



Business & Policy

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#R331

- What types of problems are TES well suited to solve?
- What are the main existing regulatory/legislative impediments to TES?
- What can different levels of government do to bring TE into conversations such as decarbonization and electric vehicles?
- If an asset is providing two services how do you prioritize the services and who pays for each of them?
- Do we need a new principle that TE is not only exchange of energy, but also the exchange of services that may be transacted?
- How do we address the cost causation issues of extreme load profiles (even in a net zero energy scenario)?
- How do we ensure the creation of incentive compatible signals that are aligned with system reliability?
- What is the evolution of rate setting that can lead us to a transactive world where we can pilot and test incentive signals that can be adopted by rate setting organizations in the interim?
- What negative externalities might result from poor rate setting?
- What variation in the timing and horizon for TE adoption do you see from state to state (refer to TE Roadmap)?
- Is FERC order 841 (2/15/18) for ISOs/RTOs to accommodate storage in their markets an opportunity for states to encourage the transactive storage markets?



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#Q971

- How do you value control as a component of a market?
- What types of services can be sold and what (additional) information may need to be exchanged to support them?
- Can services and resources be bartered/exchanged in a TE system?
- What's the role of compliance, validation, and verification of multi-party TE systems (smart contract implications)? (confidence and validation issues need to be addressed)
- How do you build explicit, well-defined, trust models that define identity, authentication, service-level agreements, and privacy into TE systems? "When it comes to the nuts and bolts of TE, how do you build the trust model, that everyone is comfortable using?"
- Is there a place for Blockchain as a method of validation, accounting, and improved trust for TE deployments?
- How do you prioritize transactions in critical operational situations?
- What are the performance (latency, throughput) issues/network requirements necessary to support TE?
- What are the rules governing transactions as well as the mechanism(s) for reaching agreement?
- Who writes the specification for TE systems and how do you enforce party compliance?



Business & Technology

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#R913

- How can information as a service (e.g. level of reliability, level of resilience, quality, available reserves, time to engage, available energy, current demand) create value when exchanged between parties of a TE system?
- What is the value to consumer electronics firms to embed TE support in consumer devices?
- What economic messages are needed to incentivize participation?
- How will regulators balance TE with the 'obligation to serve' and to special interests?
- How does TE upset the statutory obligations of the current regulatory structure?
- How can transactive energy support decarbonization?
- How should investments enabling transactive energy market participation be valued?
- What (different) opportunities does TE present for residential, commercial, and industrial customers?
- How should distributed energy and unbundled services be valued and priced?
- What barriers to interoperability cause the biggest challenges for transactive energy systems?