Panel Questions
Business & Policy

- 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?
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?
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?