Project Components

The Project will demonstrate three classes of technologies to help integrate 18,000 MW wind generation…

1. Synchrophasor Technology
2. **Smart Meter Texas Portal**
3. Smart Grid Community of the Future

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SMT Portal Overview

- ERCOT and the largest electricity companies in Texas have launched the most aggressive Advanced Metering System (AMS) deployment in the U.S.
- The *Smart Meter Texas Portal* initiative is a several-year collaboration to:
  - Properly integrate AMS meters into the ERCOT market
  - Provide consumer tools for viewing 15-minute meter data
  - Provision devices for load control
- The PUCT formed an Advanced Metering Implementation Team (AMIT) which is currently defining a roadmap for future SMT Portal capabilities
- The CCET Project and all of its stakeholders will plan an extension of Portal capabilities that can be used to better support ERCOT as well as the Texas Community of the Future.

AEP TEXAS
A unit of American Electric Power

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Planning Goals

- Investigate large-scale residential load control techniques, leveraging the major deployment of AMS
- Investigate the prospects of expanding the ancillary service market in ERCOT to include aggregated residential load
- Investigate peak shaving effects resulting from residential energy efficiency initiatives
- Investigate consumer response to alternative pricing strategies

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Recent CCET Discussions with AMIT

- Provide tools to help the customer save energy (in-process)
- Expand the portal planning for:
  - Direct load control
  - Connection to the ERCOT back office
  - Aggregating load as an ancillary service
- Home area network (HAN) device provisioning (in-process)
- For the retail electric providers (REPs):
  - Time of use (TOU) scenarios
  - Load control acknowledgements
  - Real-time pricing support
- Third party access by organizations like Google or a homeowners association (being discussed)
- Data storage for HAN devices (15-minute data from each device)
- Data archive of events

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Planning Approach

- Continue to assist with planning efforts for future SMT Portal releases
- Assist with the development of use cases, requirements, architectures and designs to support future needs
- Provide feedback on customer interaction with and comments concerning SMT Portal
- As needed, develop new functionality to support retail electric provider and/or customer access to SMT Portal data

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