

## Demand Response and Flex-Load Signaling

- Flexible two-way communications
- Real-time data and control
- Customizable schedules & alerts
- Onboard schedule storage
- SkyCentrics cloud and analytics
- Built for utility Demand Response/Flexible Load programs
- No external power source required



## DERMS, REST API, or OpenADR 2.0b

- Use SkyCentrics DREAM platform with fleet management and grid services
- Integrate into other DERMS or mobile applications via the SkyCentrics REST API
- Integrate with SkyCentrics certified OpenADR 2.0b VEN in the cloud, then connect to utility VTN

## Certifications:

### FCC Certified

- Complies with Part 15 of FCC Rules (RF devices)

### UL Certified

- Conforms to UL Standard 916 (energy management equipment)

## Security:

- TLS/SSL device to cloud
- VPN from cellular carrier to SkyCentrics cloud

## CTA-2045 Ecosystem:

- Over 300 models of water heater from all major brands
  - AO Smith
  - Rheem
  - Bradford White
  - Rinnai
- Pentair Pool Pump Controllers
- Mitsubishi Mini-Splits
- Siemens EV Chargers
- Commercial Heat Pump Boilers, HVAC Systems, and Thermostats

## Real Time Data Collection

- **Operational state:** running normal, running curtailed, heightened curtailed, idle normal.
- **Instantaneous power or electricity consumption (W)**
- **Total energy storage capacity (Wh) - water heaters**
- **Present capacity level (Wh) - water heaters**
- **Total Energy Consumption over period (Wh)**
- **Event override status (yes/no) - opt out**

## CTA-2045 Grid Signals

### Three Levels of Energy Curtailment:

- **Shed:** Moderately decrease energy consumption
- **Critical Peak:** Aggressively decrease energy consumption
- **Grid Emergency:** Eliminate all energy consumption

### Load Up:

- **Load Up:** Allow Smart Grid Device (SGD) to fully heat before a curtailment event

**Opt-Out:** Customer opt-out of grid signals available at any time

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