FEDERAL UTILITY PARTNERSHIP WORKING GROUP SEMINAR

May 2-3, 2019
San Diego, CA

Welcoming Remarks
Scott Crider
Vice President, Customer Services

Hosted by

FEMP
Federal Energy Management Program

SDGE
A Sempra Energy utility®
San Diego Gas & Electric

- Subsidiary of Sempra Energy
- Serves 3.6 million people
- 1.4 million electric meters
- 900k natural gas meters
- 4,100 employees support

Service territory includes the nation’s highest concentration of military bases.
Our Mission: We improve lives and communities by building the cleanest, safest and most reliable energy company in America.

**clean**

- **45%**
  Renewable Energy
  Leading the nation in delivering clean energy

- **2,800**
  EV Chargers
  Cleaner air by improving access to driving electric

- **30 mw / 120 mw-hours**
  Largest lithium-ion battery storage owner in North America increasing renewable integration

**safe**

- **2018**
  Edison Award
  National recognition for wildfire risk reduction

- **24/7**
  Gas Emergency Crews
  Improving emergency response times

- **175**
  Weather Stations
  America’s largest utility-owned network

**reliable**

- **2018 ReliabilityOne™ National Reliability Award**
  Superior performance amongst national utilities

- **60%**
  Underground
  Over 10,000 miles of electrical lines undergrounded

- **3,300**
  Mobile homes upgraded
  Upgraded service installed at 30 parks
Resilience

“The ability to prepare for and adapt to changing conditions and withstand and recover rapidly from disruptions. Resilience includes the ability to withstand and recover from deliberate attacks, accidents, or naturally occurring threats or incidents.”

- Presidential Policy Directive (PPD) 21 regarding Critical Infrastructure Security and Resilience
Energy Storage & Microgrids

- Global leader in energy storage with 107 MW of storage:
  - America’s largest lithium-ion battery storage facility
  - Vanadium Redox Flow Battery demonstration project
- Over 40 MW of customer-owned energy storage
- Built the first large-scale utility microgrid in America

Borrego Springs, California

Escondido Battery Storage Facility
Wildfire safety is No. 1 risk for SDG&E

• Built most granular utility-owned weather network with +200,000 pieces of weather data collected daily
• Over 100 high definition cameras improve fire detection
• Wireless fault indicators provide more precise information on where to look for ignitions
• Fire prediction and modeling
• Stakeholder and community partnerships
Federal Utility Partnerships

- Implementation of nearly $400,000,000 in UESC work for Federal agencies since 1995
- Development of the Armed Forces Program (AFP) demand response program specifically for DoD installations located in California
- Microgrid technology support
- Emergency response/fire threat mitigation
- Assist Navy, FAA and Marines with energy storage initiatives
- Technical training assistance