System Operations Development and Advancement (EPIC-2 Project)

EPIC Public Stakeholder Workshop
June 22, 2016

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Project Objectives

• Demonstrate improved capabilities for system operations in response to ongoing technology and infrastructure changes

• Demonstrate a systematic process for ongoing realignment of operating practices, addressing
  – System integration issues
  – Training programs
  – Worker skill set and workforce readiness

• Support continued modernization of SDG&E’s power system
Project Team

• Team Composition
  – SDG&E Technical Lead
  – SDG&E Project Technical Staff
  – Contractor(s)

• Groups Involved within SDG&E
  – Technology and Systems Demonstration (Lead)
  – Electric Distribution Engineering
  – Electric Distribution Operations
  – Information Management
  – Integrated Test Facility (ITF)
Considerations

- Software control, resource forecasting and aggregation concept for DERs and loads to meet operational objectives
- Volt/VAr optimization and control
- Synthetic ramping reserves
Areas to be Addressed

• Aggregated systems
• Distribution transformer level
• Localized condition monitoring
• Distributed Energy Resource focus on:
  – Electric Vehicle Supply Equipment
  – Stationary Energy Storage
  – Photovoltaic Systems
Schedule

- **October 2015 - July 2016**
  - Stakeholder consultations, writing project plan, start-up of internal work and RFP

- **August 2016 - February 2017**
  - Data measurement, RAMCO System integration, testing and data collection, communication system testing

- **September 2016 - May 2017**
  - Field testing of the DC System, data collection/analysis of field data, development of technology transfer plan, and preparation of Final Report

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Project Status

- Project plan drafted
- Internal SDG&E project team formed and activities launched
- Next steps: Competitive procurement of contractor(s) in Summer 2016
Q&A