



# Energy Research and Development Division

## *Microgrid Assessment and Recommended Future RD&D Investments for the State of California*

Staff Workshop  
March 06, 2015  
Art Rosenfeld Hearing Room



# Agenda

- **Overview and Opening Comments**
- **Partners**
  - CPUC, DOE, U.S. DOD, and NAVFAC
- **Active Microgrids**
  - UCSD, SMUD, and SDG&E
- **Lunch Break**
- **EPIC Microgrid Awards**
  - Energy Commission
- **Discussion**
  - DNV GL
- **Closing**
  - Energy Commission



# Workshop Purpose and Objectives

**Purpose:** to review technical, regulatory, and market issues that might impede commercialization of microgrids.

**Objective:** identify potential RD&D investments that help overcome issues and facilitate commercialization of microgrids.



# Partners Presentations

- Jim Reilly, U.S. Department of Energy Contractor
- David Erickson, California Public Utilities Commission

## Questions and Answers

- Robert Gilleskie, Camp Pendleton, U.S. Department of Defense
- Laura Baker, NAVFAC Southwest Region

## Questions and Answers



# Active Microgrids

- Byron Washom, UC San Diego
- Katarina Miletijev, Sacramento Municipal Utility District
- Thomas Bialek, San Diego Gas and Electric

## Questions and Answers



# Lunch BREAK



# EPIC Microgrid Solicitation (PON-14-301)

- Opened on 7/3/14 and closed on 11/17/14
- On 2/3/15 announced proposed awards totaling \$27.2 million
  - Group 1: Demonstration of Low Carbon-Based Microgrids for Critical Facilities (3 projects at \$11.8 million)
  - Group 2: Demonstration of High-Penetration, Renewable-Based Microgrids (4 projects at \$9.9 million)
  - Group 3: Demonstration of Advanced Smart and Bidirectional Vehicle Charging (3 projects at \$5.4 million)
- Next Steps
- Notice of Proposed Awards Available at:

[http://energy.ca.gov/contracts/PON-14-301\\_NOPA.pdf](http://energy.ca.gov/contracts/PON-14-301_NOPA.pdf)



## Preliminary Survey Results and Discussion Questions

- What are the metrics to assess microgrid performance?
- What is the value of microgrids and how should this value be recognized?
- What are the strategies for successfully commercializing microgrids?
- Identify and list recommended future RD&D investments and strategies.



# Submitting Written Comments

- Written comments can be submitted by 5:00 p.m. on March 16, 2015.
- The Energy Commission welcomes comments by e-mail. Please include your name and organization name. Comments should be in a downloadable, searchable format such as Microsoft® Word (.doc) or Adobe® Acrobat® (.pdf). Please indicate “Microgrid Assessment and Recommended Future RD&D Investments” in the subject line. Send comments to: david.chambers@energy.ca.gov.
- Comments and workshop materials are posted at:  
<http://www.energy.ca.gov/research/notices/index.html#03062015>
- Thank you for your participation.



**BREAK**