

## BATTERY ENERGY STORAGE SYSTEM (BESS)

BESS is a type of energy storage system that uses batteries to store and distribute energy in the form of electricity.

At its most basic level, a BESS consists of one or more batteries that store electrical energy for use at a later time.

It provides advantages over other energy storage systems, including greater efficiency and flexibility, faster response times when powering equipment or devices, and lower costs overall

### EUCG BESS WORKING GROUP

#### MISSION:

Maximizing the safety, efficiency, reliability, and value of Utility Scale BESS technology through standardization of O&M best practices and performance measures

#### VISION:

Capture and share existing O&M best practices through regular contact and benchmarking among utilities to maximize the safety, effectiveness, and value of BESS technology

#### Message from the Chairs:

We are very excited to introduce the **“New” BESS Working Group** to EUCG’s family of electric utility members. Our core team have made great progress in the standardization of BESS performance measures via a benchmark database framework. We are committed to building new partnerships and strengthen existing ones by leveraging our diverse backgrounds and experiences to improve operational and financial performance of BESS technology.



## BESS WORKING GROUP MEMBER BENEFITS:

### Member Benefits

- **Key Performance Indicators (KPIs)** – Standardized financial and plant performance measures for consistent benchmarks between committee members
- **Peer Networks** - Provides opportunities for industry professionals to share knowledge regarding lessons learned, O&M costs, and best practices
- **Member Driven** - Empowers Committee members to determine the content and direction of the committee to meet the needs of the evolving industry
- **Workshops** - Semi-annual workshops that fosters interactive discussions between members regarding current and emerging issues facing the industry

### Products and Services

- **BESS Information Database** - Collection of data from Key Performance Indicators (KPI's) that enables users the flexibility to perform customized data analytics to compare performance amongst peers
  - Plant Profile (Application, Manufacturer, Model, etc.,)
  - Staffing Levels and Makeup
  - Safety Performance and Case Studies
  - Cost Efficiency Measures - \$O&M/kw/MW
  - Capital Investment Measures
  - Operations Performance Metrics – Storage Capacity, Energy Density, Power Density, Storage Efficiency
- **Data Repository** - Provides reference materials that contains information on topics regarding Operations and Maintenance of BESS infrastructure
- **BESS O&M Best Practices** – Knowledge sharing with industry professionals to improve safety, work practices and efficiencies, and value proposition of BESS technology
- **Data Integrity Reviews** – Provides a platform to validate data consistency amongst members and arms members with a high level of confidence to share results with benchmark sponsors.

## BESS WORKING GROUP COMMITTEE LEADERSHIP

### Committee Leadership

- **Committee Chair:** Ruben Soto, Southern California Edison
  - [ruben.soto@sce.com](mailto:ruben.soto@sce.com)
- **Committee Chair:** Scott Trombley, Duke Energy
  - [scott.trombley@duke-energy.com](mailto:scott.trombley@duke-energy.com)



## BESS Working Group Members

Arizona Public Service | USA  
Southern California Edison | USA  
Duke Energy | USA  
Energy Northwest | USA  
Tennessee Valley Authority | USA  
CenterPoint Energy | USA  
PSE&G | USA  
Tampa Electric | USA  
Consumers Energy Company | USA  
Exelon Utilities | USA  
Pacific Gas & Electric | USA

## OUTLOOK

Our outlook will be focused on a successful launch and implementation of EUCG's newest user group the BESS Committee.

A successful launch will deliver all of the major milestones identified in our implementation schedule, including membership growth through solicitation of existing EUCG members who own BESS and existing contacts.

Our goal and expectation is to participate in EUCG's 2023 Spring and Fall Benchmark Workshop/Conference in a limited capacity as a new user group.

Again, we look forward to growing our partnership with EUCG and its members.