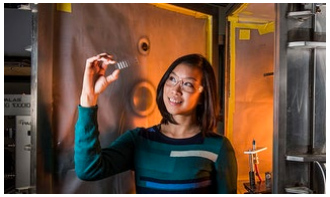
Energy Storage Project Team Overview



Peer Review 2018

Santa Fe, NM

Daniel Borneo
2018

SAND2018-1911 C

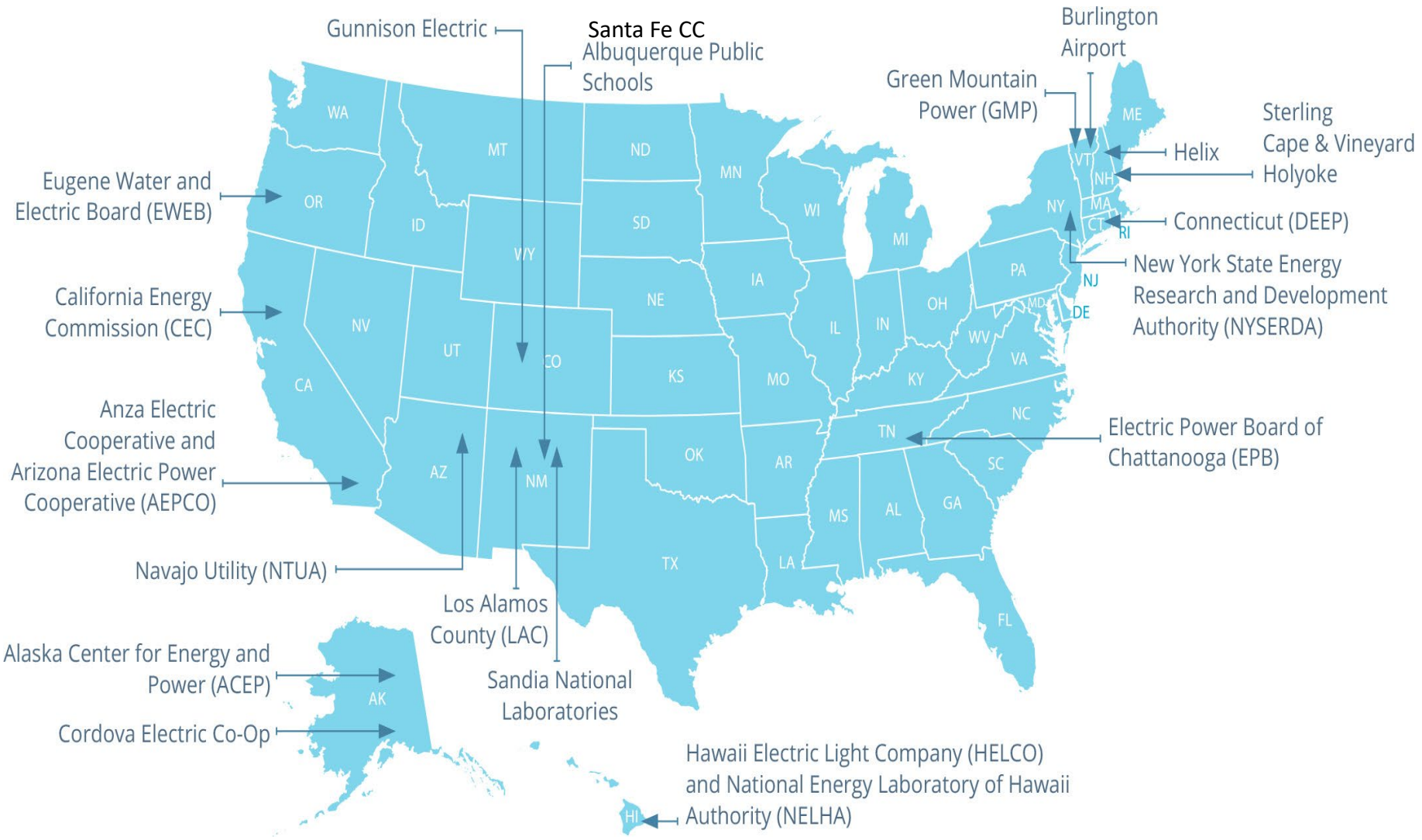
DOE OE Energy Storage Projects and Analysis Team

What We Do and Why

- Work with Utility, Industrial, State and International entities to:
  - Provide **independent analysis** for Energy Storage Implementation
    - Application(s) benefit and ROI analysis
    - Power and energy requirements
    - Technology review and system testing
  - Support the development and implementation of **grid-tied ES** projects
    - **RFI/RFP development**
    - **Design and Procurement Support**
    - **Application/Economic analysis**
    - **Commissioning Plan Development**
  - Monitor and analyze operational ES Projects
    - Application optimization
    - Operational performance
  - ES Control Lab – New in 2018
    - Multiple ES systems up to 1 MWh ES storage system
    - Remote Project Data gathering and operation monitoring
    - Energy, battery and grid control theory and optimization development
  - Develop public information programs
    - Webinars
    - Workshops and presentations

- Goal
  - Safe, Reliable, and Effective ESS
  - Inform the Public and encourage investment.

DOE/SNL Energy Storage Projects



Energy Storage Projects Team/Partners

- Project Team
  - Ben Schenkman – Eugene, Cordova, Sandia control lab, Helix, EPB, NELHA, Ct. DEEP, PNM, Burlington
  - Frank Currie – NTUA, ANZA, Los Alamos, APS, Gunnison
  - Tu Nguyen – Analysis – ANZA, APS, Gunnison
  - Todd Olinsky-Paul - CESA's ESTAP Program
  - Cole Benson – Intern Extraordinaire

- Project Partners
  - NELHA – Laurence Sombardier
  - SFCC – Stephen Gomez
  - Cordova – Clay Koplin/Craig Kuntz
  - Helix – Matt Lazarewicz
  - ANZA – Barry Brown
  - SMLD – Sean Hamilton
  - NRECA – Venkat Banunarayanan
  - California Energy Commission – Mike Gravely
  - NTUA – Derrick Terry
  - EPB – Jim Glass
  - EWEB – Matt Ibaraki
  - Burlington Electric – Casey Lamont

Red – Presenting (Presentation and/or Poster)

Thanks

Daniel Borneo drborne@sandia.gov

This work was supported and funded by the Department of Energy's Office of Electricity Delivery and Energy Reliability - Stationary Energy Storage Program. Dr. Imre Gyuk Program Director