



Item 6: The Regents of the University of California, on Behalf of the Irvine Campus

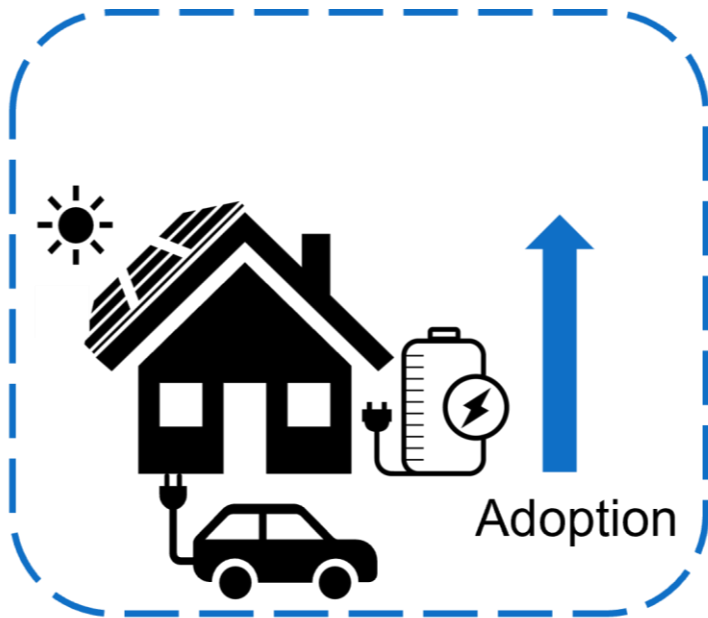
July, 8th 2026 Business Meeting

Alejandra Rios, Electric Generation System Specialist
Energy Research and Development Division, Renewable Integration

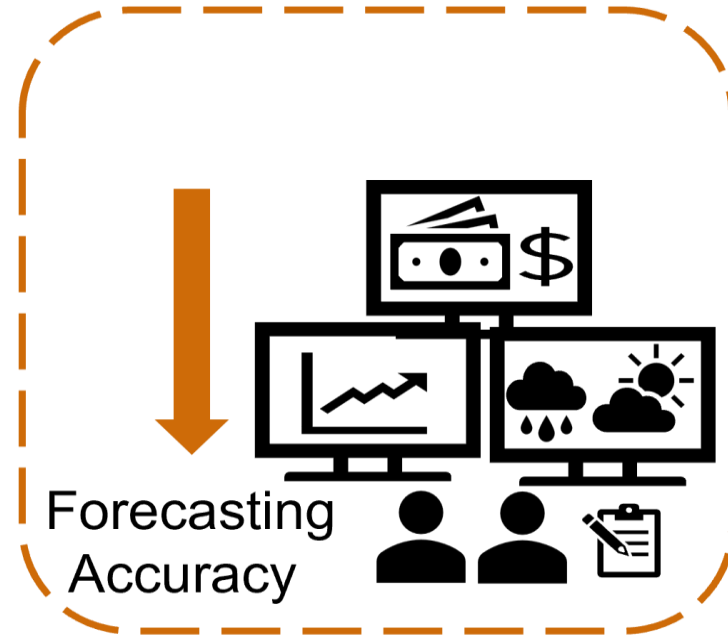


Background

- California's rapid BtM adoption
- Grid operators have limited visibility of BtM resources



**Behind-the-Meter (BtM)
Resources**



Grid Operator (CAISO)



Purpose of Solicitation

- **Improve short-term BtM resources forecasting**
 - Enhance or develop new models
 - Build an architecture for better data incorporation
 - Collaborate with a broad set of interested parties



The University of California, Irvine

- Project **SIGNAL: Socioeconomic-geographic Intelligence for Grid Net-Load Analytics and Learning**
 - Develop multi-horizon net-load forecasting
 - Predict BtM resources behaviors (PV, BESS, EV)
 - Improve short-term accuracy to enhance grid resilience, flexibility, and ratepayer savings

Funding amount: \$3,000,000



Project Approach



**Standardize data
workflow
framework**



**Develop forecasting
model**



**Conduct validation
and demonstration**



Project SIGNAL Team

UCI University of
California, Irvine



Lawrence Berkeley
National Laboratory

UC San Diego





Benefits to California Ratepayers

- **Affordability:**
 - Support cost-effective, reliable energy for consumers
- **Reliability:**
 - Reduce uncertainty in net load
 - Increase likelihood of meeting net load
- **Sustainability:**
 - Reduce California's carbon footprint



Staff Recommendation

- Approve grant agreement
- Adopt staff's recommendation that project is exempt from CEQA