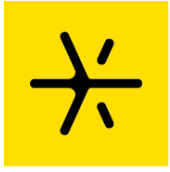




Vermont
Energy Investment
Corporation



Vermont Energy Investment Corporation

- Nonprofit with 25 years experience reducing economic, environmental costs of energy
- Comprehensive focus and results
 - Energy efficiency – Renewable energy – Transportation
- National & international consulting & implementation
 - Program design, planning, & evaluation – policy & advocacy – research
- Clients are government agencies, regulators, utilities, foundations, advocates
- Operate 3 Energy Efficiency Utilities



Integrated Resource Plans and Electric Vehicle Load Forecasting

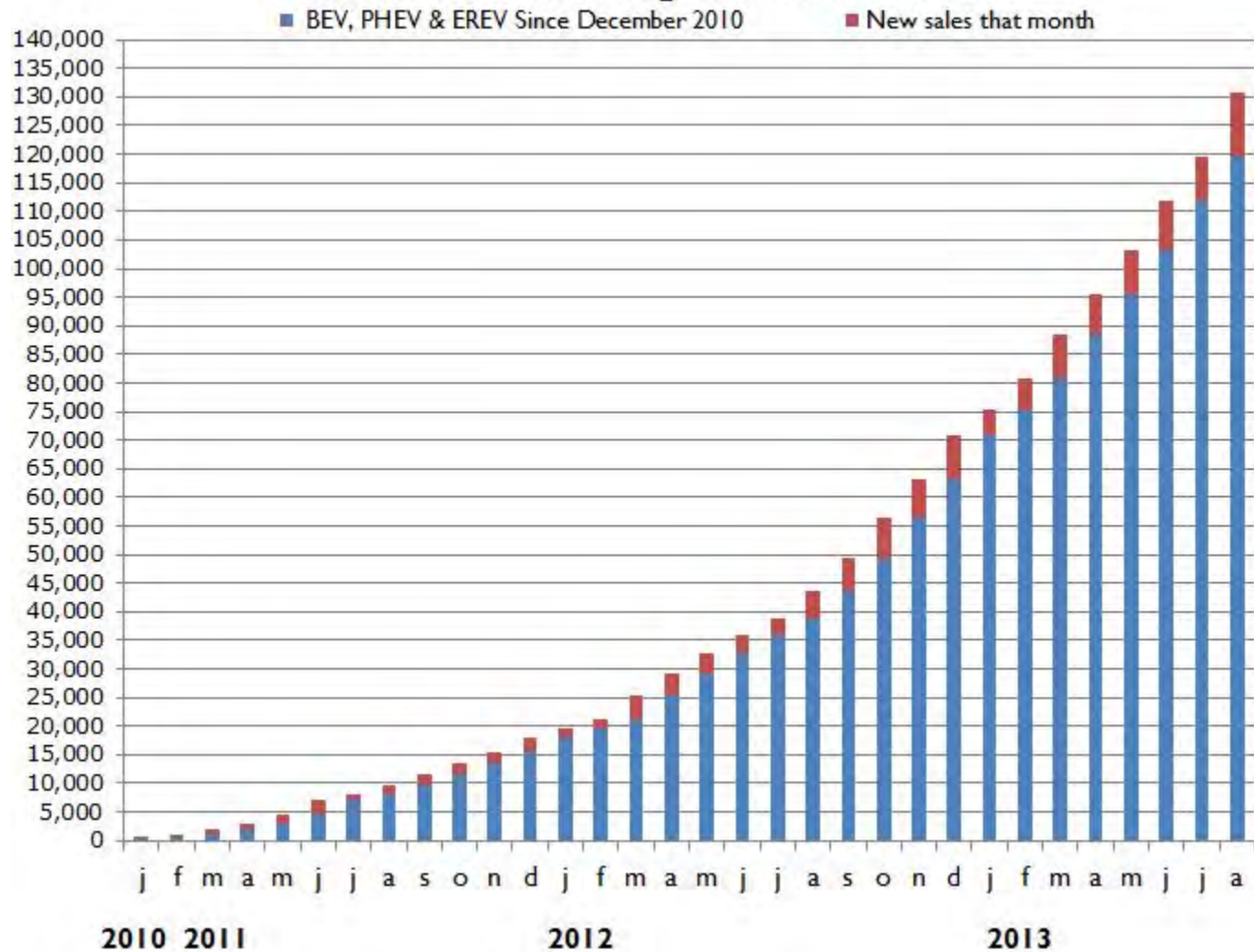
NASEO Annual Meeting
September 15, 2013
Karen Glitman, VEIC

Goal:

Determine best practices and the state of inclusion of electric vehicles in utility planning and forecasting documents.



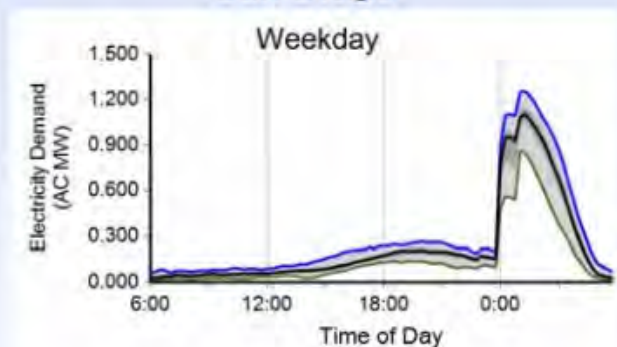
Cumulative U.S. Plug-In Vehicle Sales



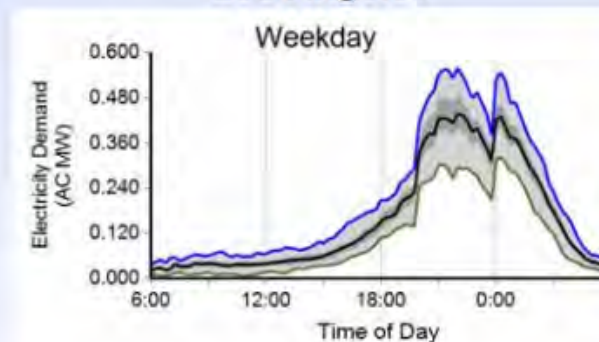
EV Project – EVSE Infra. Summary Report

- Residential Level 2 Weekday EVSE 1st Quarter 2013
- TOU kWh rates in San Diego and San Francisco clearly impact when vehicle charging start times are set

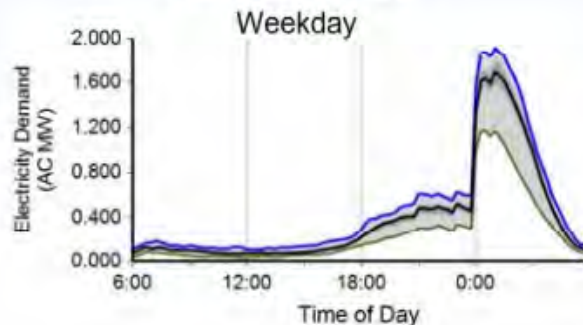
San Diego



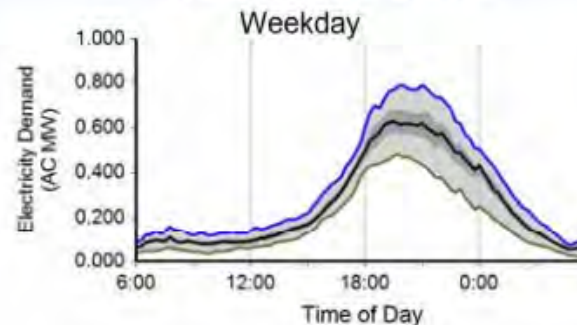
Los Angeles



San Francisco



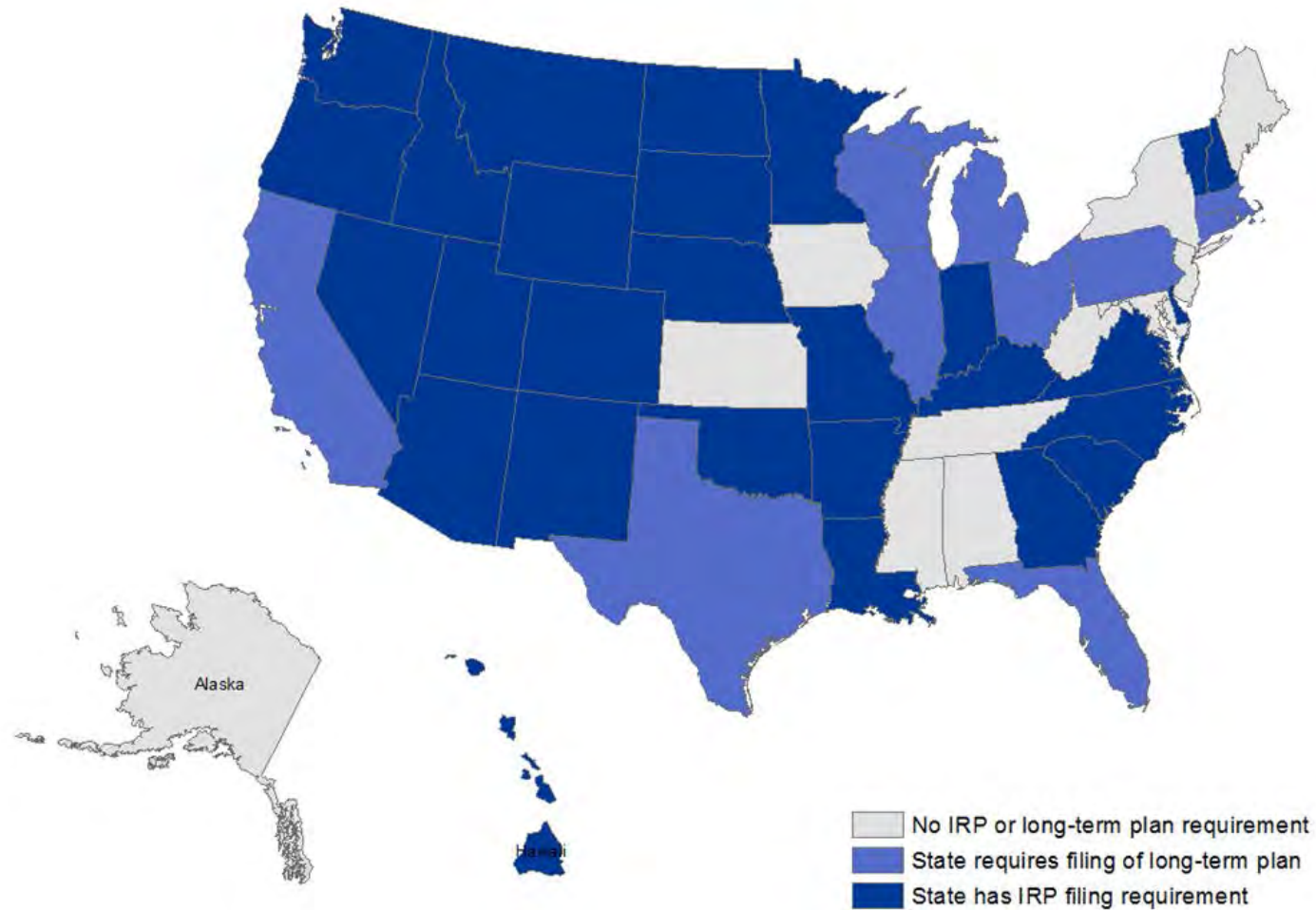
Washington State



Predicting
Additional Load
From EVs



Where IRPs exist





Recommendations for Future IRPs Incorporating EVs



EV Planning Considerations for Utilities



Cross-Sector Challenges



Next Steps:

Technical
Reference Manual
for:

- Level 1 and
Level Charging
- Electric Vehicles



“The opportunity to electrify the transportation sector could be a new market segment for electric utilities. However, while this represents a load growth opportunity, **it will likely require significant planning and potentially even organizational changes to pursue.**”

