

Electric Vehicles and Building Codes



Mike Salisbury

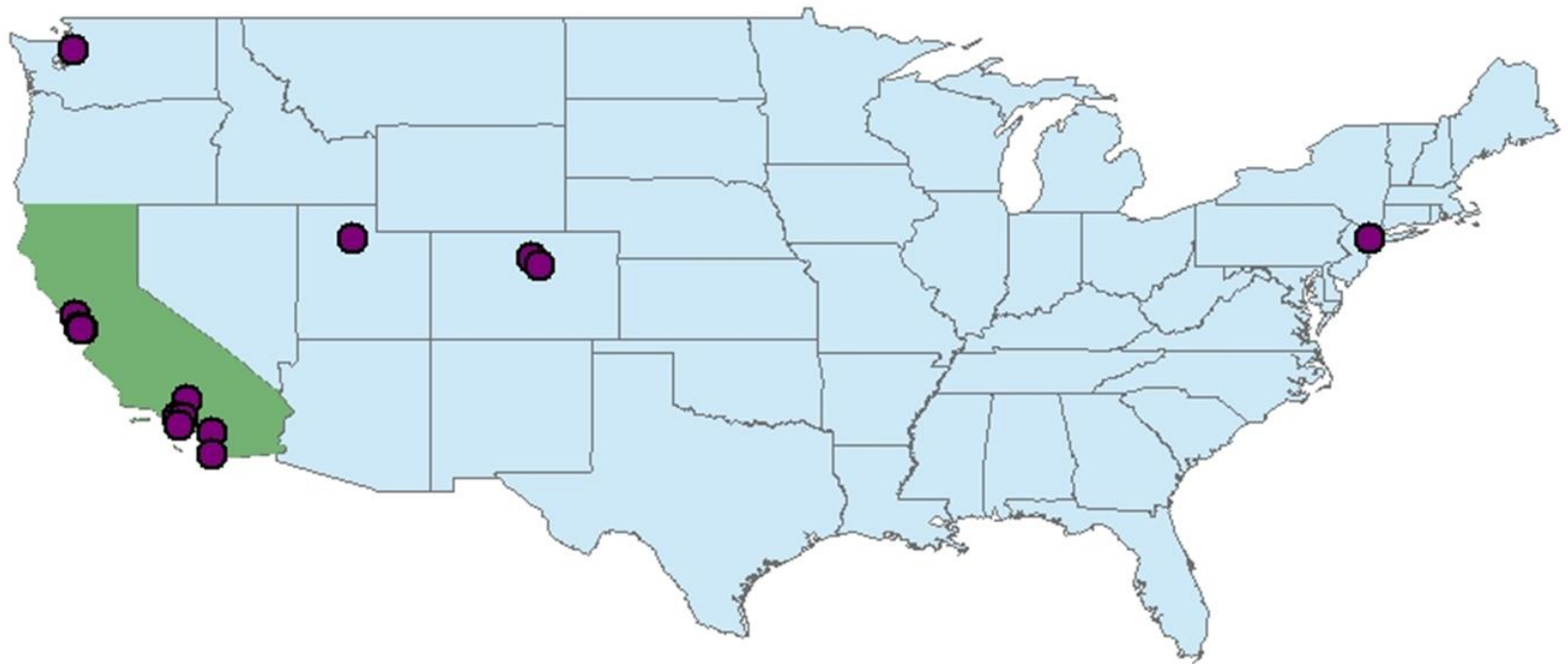
Local Governments Electric Vehicle Workshop

August 16, 2016

Electric Vehicle Ready Building Codes

- ❑ At a minimum level, the idea is to require new construction to have:
 - Conduit or wiring from panel to parking area
 - Panel capacity to handle future EV load
- ❑ This makes it incredibly easy and much less expensive to install a charging station at a future date

Municipalities with EV Ready Building Codes



Avoided Costs: Trenching



Avoided Costs: Panel Upgrades



Three Areas to Target



Single Family



Multi-Family Housing



Commercial



Variables to Consider

- ❑ Level of Readiness
 - Conduit and Panel Capacity
 - Wiring and Circuits
 - Stations
- ❑ Percentage of EV Ready Spaces
 - 2%-25%
- ❑ Minimum Size of Building/Parking Lot
- ❑ Cost

California Statewide Code

- ❑ New 1 and 2 family homes:
 - Conduit and panel capacity for future 240V/40A circuit
 - ❑ Labeled “EV Capable”
- ❑ Multi-family
 - Applicable to 17 or more units
 - 3% of spaces, but at least 1 will have conduit and panel capacity for a future 240V/40A circuit
- ❑ Commercial
 - Applicable to new parking lots with 10 or more spaces
 - 5-6% of parking spaces

Thanks!

Mike Salisbury

msalisbury@swenergy.org