Electric Vehicles and Building Codes

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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
- Commercial
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!

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