



# Investor-Owned Utility Transportation Electrification

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# Senate Bill 350 (2015)

Double **Energy Efficiency** Savings

Increase **Renewable Energy** procurement to 50%

Accelerate widespread **Transportation Electrification**

- Reduce GHG emissions 40% below 1990 levels by 2030
- Requires resource optimization and Integrated Resource Planning process
- Expresses intent for regional expansion of the CAISO
- Consider disadvantaged communities





# SB 350 Transportation Electrification

- **TE: Use of external sources of electrical power for:**
  - Vehicles, vessels, trains, boats, & other equipment that are mobile sources of air pollution and greenhouse gases
- **CPUC should direct IOUs to file applications to accelerate widespread transportation electrification**
  - Minimize costs, maximize benefits
  - Do not unfairly compete with non-utility enterprises
  - Include performance accountability
  - In the interest of ratepayers





# CPUC's SB 350 TE Guidance

Sept 14, 2016 [ruling](#) directed electric IOUs to file applications with CPUC to propose TE investments pursuant to SB 350

- **Basic requirements**

- PG&E, SCE, SDG&E file applications by 1/20/17
- Liberty Utilities, Bear Valley Electric, PacifiCorp file applications by 6/30/17
- Adjacent large and small IOUs may propose joint programs
- IOU must show how proposed TE portfolio meets SB 350 requirements (accelerate TE, minimize costs, maximize benefits, etc.)

- **Regulatory review**

- Priority review for non-controversial, short-term (1-year) investments
  - total of \$20M per utility, <\$4M per project
- Standard Review for all other investments





# CPUC's SB 350 TE Guidance (cont.)

- **Scale and scope**
  - IOUs' TE portfolios should achieve their proportional share of state vehicle and emissions reduction goals
  - Portfolio planning should also:
    - Align with IOU integrated Resource Plan
    - Plan for emissions reduction trajectories that align with ARB's 2030 Scoping Plan and Mobile Source Strategy
    - Consider demand forecasts
  - Encourage utilities to target pilots in multiple sectors to gain experience





# CPUC's SB 350 TE Guidance (cont.)

- **Portfolio design**
  - Address priority projects & programs
    - Rate design
    - Expand focus from light duty to include medium/heavy, transit, ports, etc.
    - Leverage results of previous pilots
  - Align with local, regional, state TE planning and investments
    - 2016 ZEV Action Plan is a comprehensive overview
  - Promote safety
    - During construction, interconnection, operation
    - For utility workers, electricity customers, drivers





# CPUC's SB 350 TE Implementation

- **2016: planning & guidance**
  - Mar: began regulatory process to address TE components of SB 350
  - Apr: public workshop to get stakeholder feedback
  - May: parties submit comments on workshop and straw proposal
  - Sep: Cmr. issued guidance to 6 electric IOUs (adopted in November)
  - Dec: workshops on IOU pilot results and VGI standards
  - Throughout: confer with CEC and ARB
- **2017: application review**
  - Jan: 3 large IOUs file applications
  - Jul: 3 small IOUs file applications
- **2018 and beyond: program implementation**
  - IOUs implement approved programs





**Thank you!**

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**CPUC EV Website:**  
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