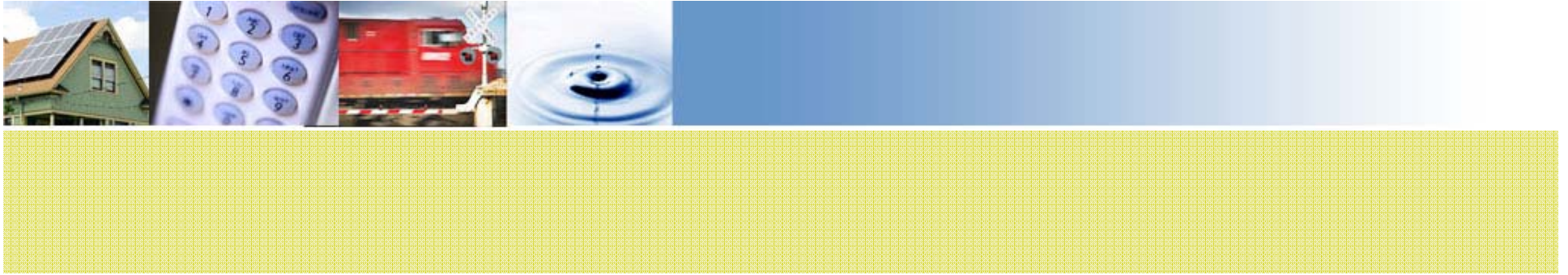


DOCKETED

Docket Number:	16-TRAN-01
Project Title:	SB 350 Transportation Electrification (Publicly Owned Utilities)
TN #:	213880
Document Title:	Presentation - Investor-Owned Utility Transportation Electrification by Amy Mesrobian
Description:	October 5, 2016 Workshop
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Investor-Owned Utility Transportation Electrification

October 5, 2016



CEC Workshop on Transportation Electrification in POU IRPs
Amy Mesrobian
California Public Utilities Commission





Overview

Objective

- Facilitate information sharing across IOUs and POUs

Agenda

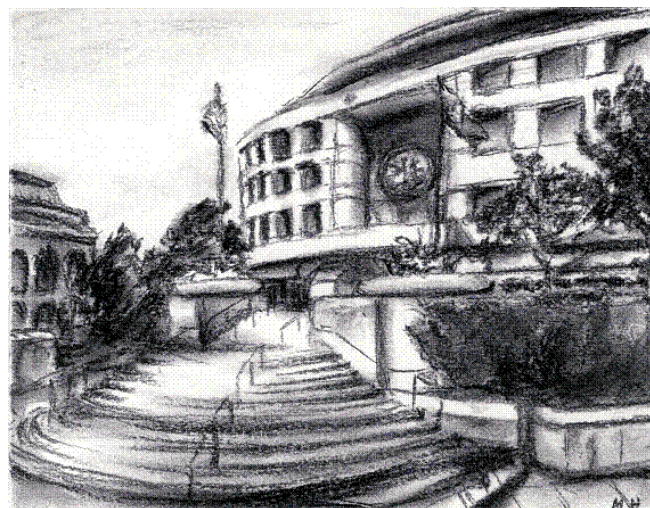
- CPUC and IOU role in transportation electrification
- Implementation of Senate Bill 350
 - Guidance to IOUs for transportation electrification





CPUC Mission

- Regulate privately owned electric, natural gas, telecommunications, water, railroad, rail transit, and passenger transportation companies.
- Protect consumers and ensure the provision of safe, reliable utility service and infrastructure at reasonable rates, with a commitment to environmental enhancement and a healthy California economy.





Overview of CPUC TE Work

- Approve IOU electricity rates
- Oversee deployment of charging infrastructure (see next slide)
- Provide IOU customer incentives
- Enable Vehicle-Grid Integration
- Provide IOU customer outreach and education
- Collaborate with other state agencies
- Develop [database](#) of transportation electrification pilots





IOU EV Infrastructure Pilots

	SDG&E	SCE	PG&E (proposed)
Status	Approved modified settlement	Approved modified settlement	Application pending
Scope	3,500 L1 & L2	1,500 L1 & L2	7,500 L2; 100 DCFC
Budget	\$45M	\$22M	\$160M
Markets	MUD, workplace	MUD, workplace, public	MUD, workplace, public
Charger Ownership	IOU	Site host	IOU
Host cost	Participant Payment	Rebate on base cost	Participant Payment
Rates	VGI rate to driver or host	TOU rate to host	TOU rate to driver or host





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
 - Nov: Commission will consider whether to adopt September guidance
 - Nov: IOU and CPUC workshop on 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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