



Transportation Electrification: What's important for your community?



**California Public Utilities Commission
Community Meetings
September 2017**





About the CPUC

- The CPUC regulates privately owned electric, natural gas, telecommunications, water, railroad, rail transit, and passenger transportation companies.



Electric and
Natural Gas
Utilities



Communications



Rail



Passenger
& Moving



Water





Why are we talking about “transportation electrification”?

Governor’s goal: 1.5 million zero emission vehicles on the roads by 2025

Current status: About 300,000 electric cars in California

Utilities are the fuel providers and grid managers





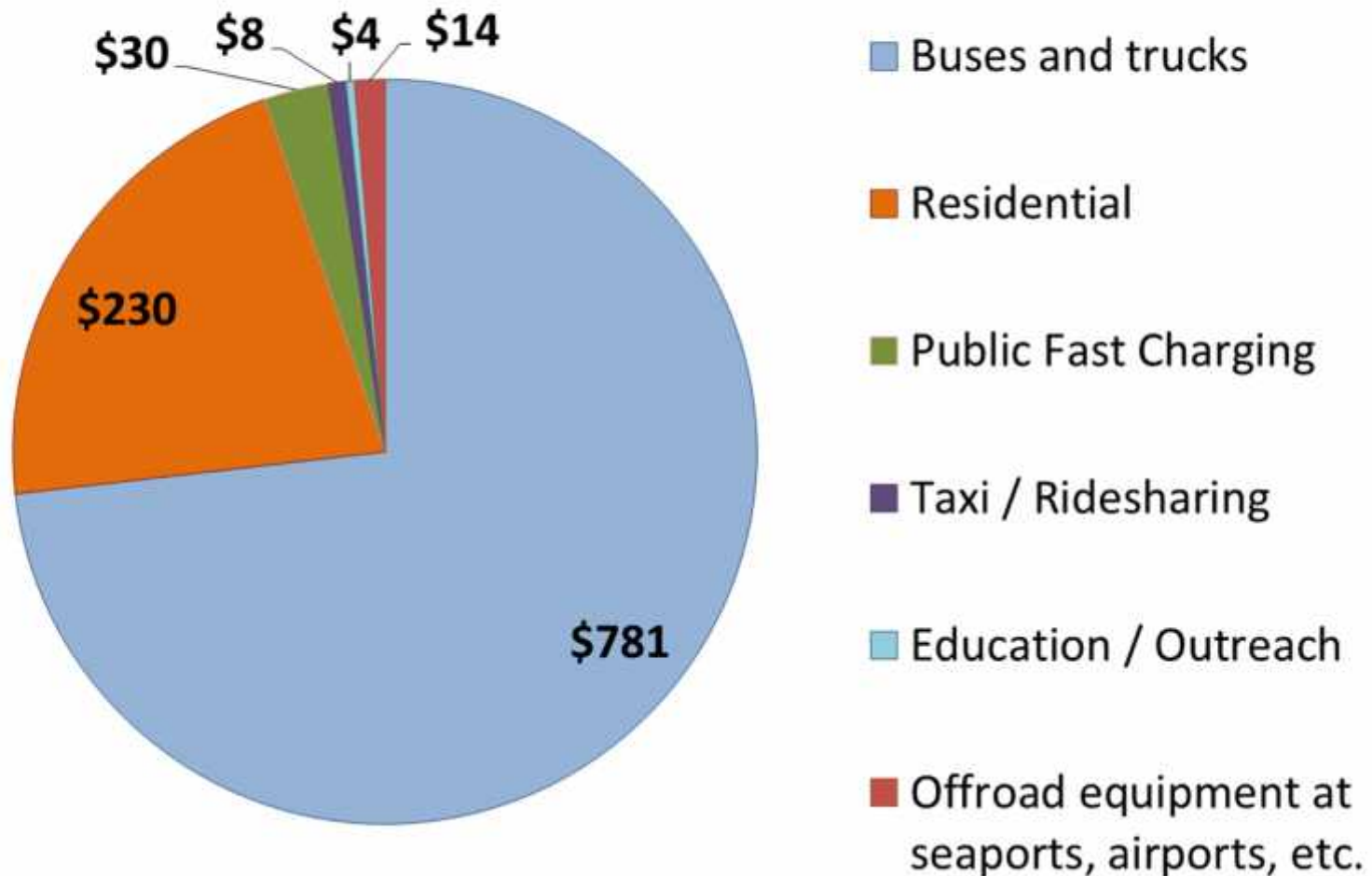
SB 350 (Clean Energy and Pollution Reduction Act of 2015):

- Electric utilities should develop programs and investments to support electric transportation to:
 - reduce petroleum use
 - meet air quality standards
 - improve public health
 - achieve GHG reduction goals
 - increase access for disadvantaged communities and low- and moderate-income communities



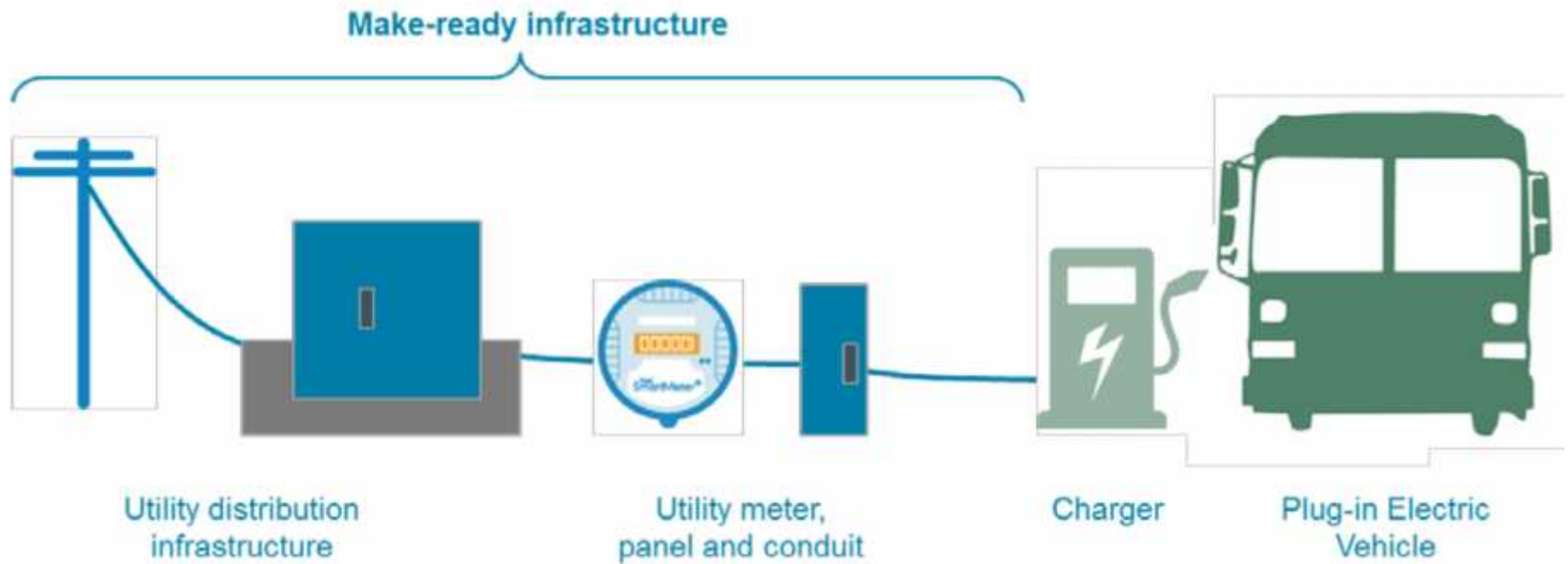


Proposed Utility Investment in Charging Infrastructure (millions \$)





EV Charging Distribution Infrastructure





Disadvantaged Communities, Bay Area

CalEnviroScreen 3.0
www.oehha.ca.gov/calenviroscreen





PG&E Proposed Programs

Project Name	Costs
Medium- or Heavy-Duty Fleet Customer Demonstration	\$3.4 million
Idle-reduction Technology Customer Demonstration	\$3.4 million
Electric School Bus Renewables Integration Pilot	\$3.4 million
Home EV Charger Information Resource Project	\$1.8 million
Open Request for Proposals for TE Projects	up to \$6.6 million total
FleetReady	\$210.8 million
Fast Charge	\$22.4 million
TOTAL	\$252 million





PG&E: Additional Proposed Benefits

- Fleet Demonstration Project: PG&E will seek a fleet that is based in, or travels through, disadvantaged communities to extend emissions benefits to those communities.
- FleetReady Program: PG&E proposes to offer rebates to DACs for about 75% for the charger costs.
- Fast Charge Program: To encourage greater deployments in disadvantaged communities, PG&E will provide site hosts with a rebate of up to \$25,000 per charger in disadvantaged communities.





DACs in LA and Surrounding Area





SCE Proposed Programs

Project Name	Costs
Residential Make-Ready Rebate	\$4 million
EV Driver Rideshare Reward	\$4 million
Urban DCFC Clusters Pilot	\$3.98 million
Electric Transit Bus Make-Ready Program	\$3.98 million
Port of Long Beach Rubber Tire Gantry Electrification	\$3.04 million
Port of Long Beach ITS Terminal Yard Tractor Project	\$0.5 million
Medium- and Heavy-Duty Charging Infrastructure	\$554 million
TOTAL	\$573.5 million





SCE: Additional Proposed Benefits

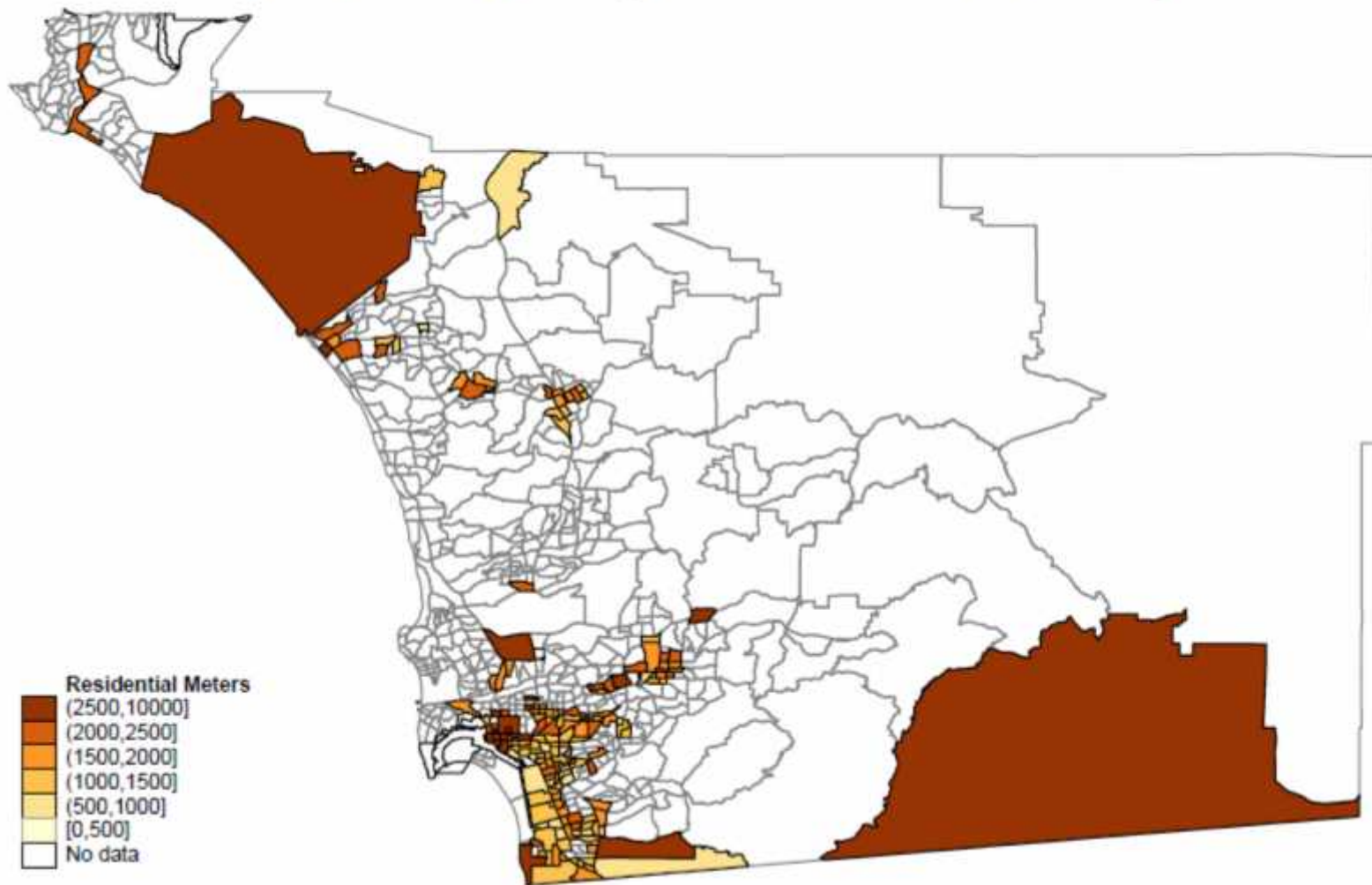
- SCE will target its outreach programs to customers within DACs
- Public transit support will expand benefits of transportation electrification to those without personal vehicles
- Port of Long Beach is located within and adjacent to DACs
- SCE is prepared to reserve a portion of total program funding for specific deployment in DACs
 - Any set-aside funds remaining halfway through each program would be released for use by other eligible sites





SDG&E Disadvantaged Communities

CalEnviroScreen 3.0 Top 25% SDG&E Service Territory





SDG&E Proposed Programs

Project Name	Costs
Airport Ground Support Equipment	\$2.8 million
Electrify Local Highways	\$4 million
Medium/Heavy-Duty and Forklift Port Electrification	\$2.4 million
Fleet Delivery Services	\$3.7 million
Green Taxi/Shuttle/Rideshare	\$3.5 million
Dealership Incentives	\$1.8 million
Residential Charging Program	\$226 million
TOTAL	\$244.2 million





What are the utilities already doing?

- ...building charging at apartment/condo buildings and workplaces
- ...providing a rebate or credit for buying an electric car
- ...offering special rates for charging an electric car at home





Questions and discussion

Thank you!

For more information:

www.cpuc.ca.gov/zev

Carla J. Peterman, Commissioner
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