

DOCKETED

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Counting EV Chargers

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Energy Division



State Goal for EV Infrastructure

250,000 ports by 2025



CPUC Regulates Electric Utilities



CPUC Approved TE Programs

Market Segments

- Fleets
- Workplaces
- Destination Centers
- Multi-Unit Dwellings

Equity is important

Market Sectors

Truck & Bus
fleet

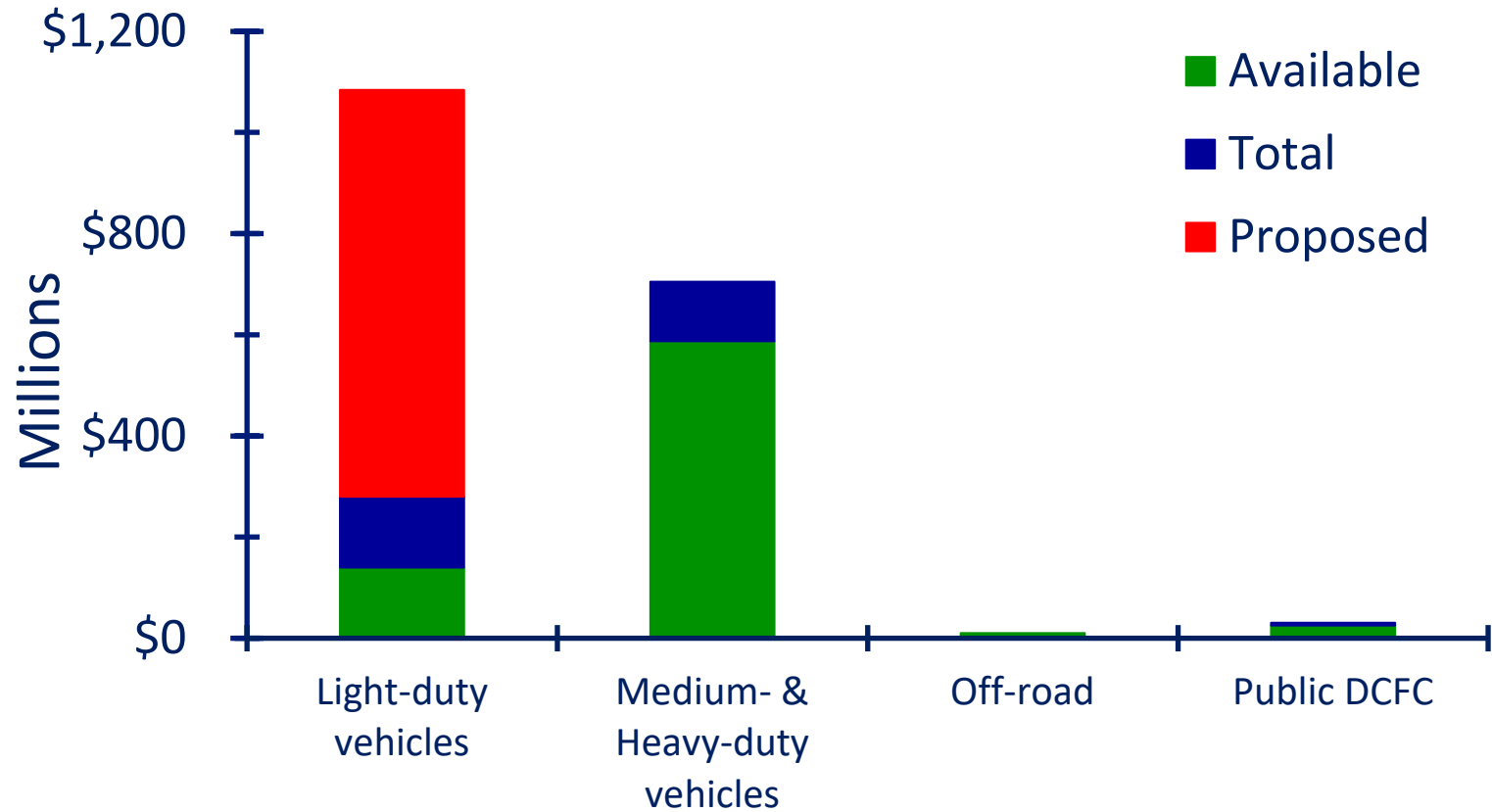
Light-duty
vehicles

Off-road
equipment

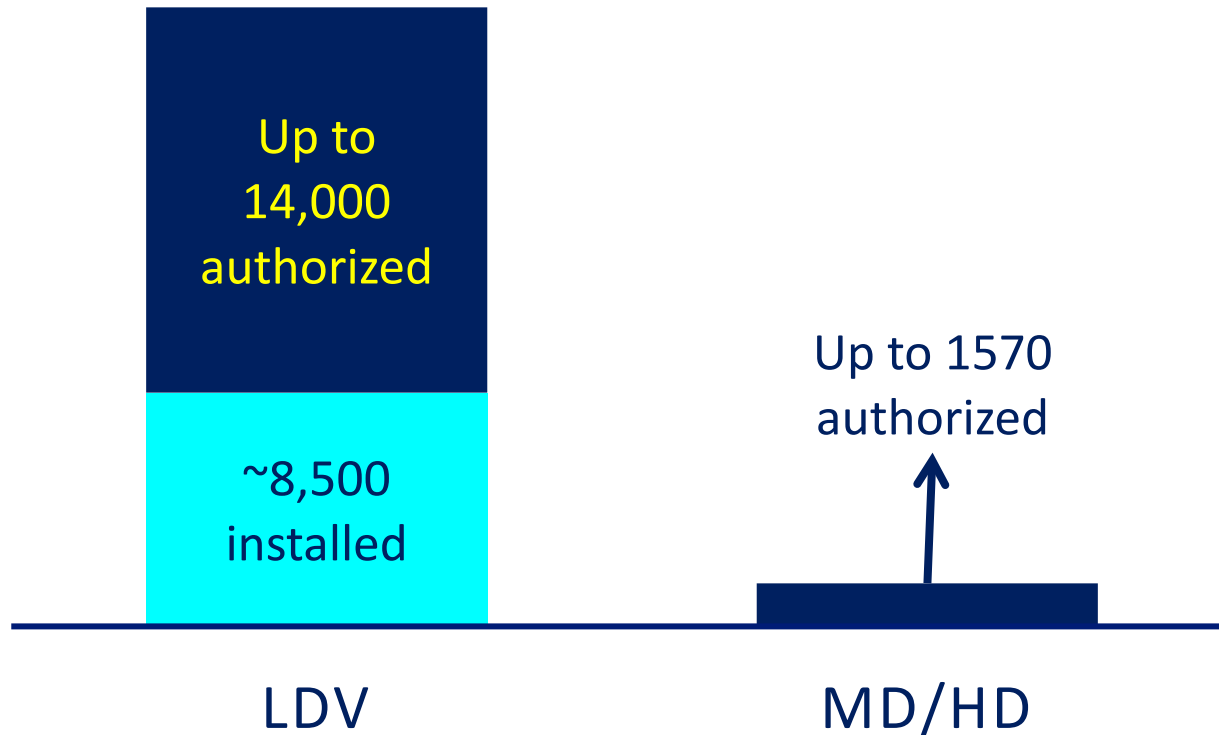
Public DCFC

Transportation
Refrigeration
Unit

TE Budget as of April 2020

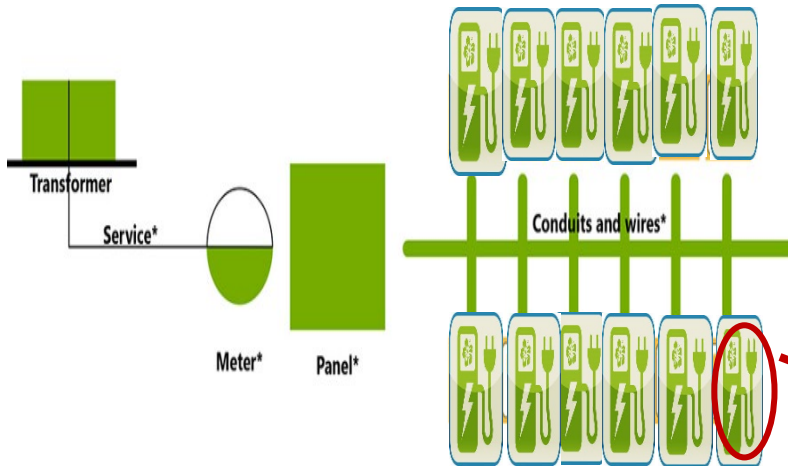


Ports Authorized as of April 2020



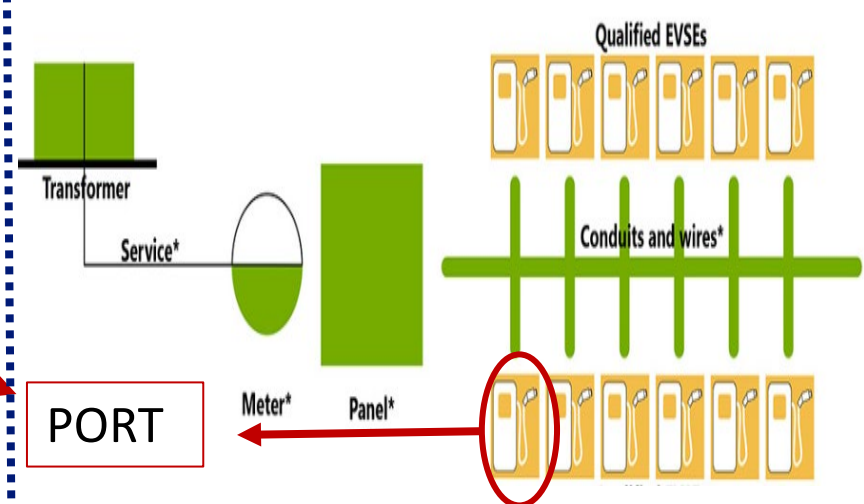
IOU – Ownership Models

Total Ownership Model



Utility Ownership

Make-Ready Model



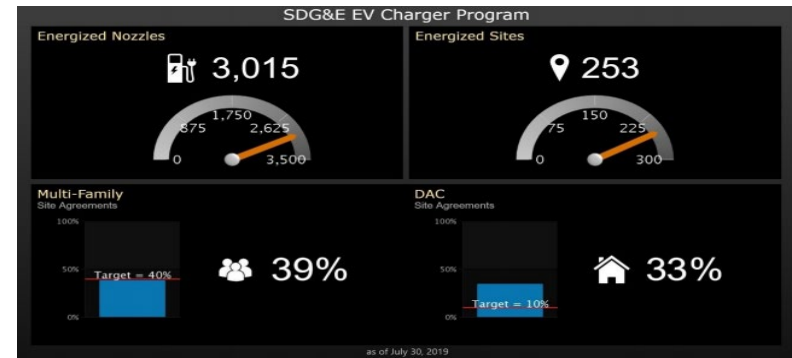
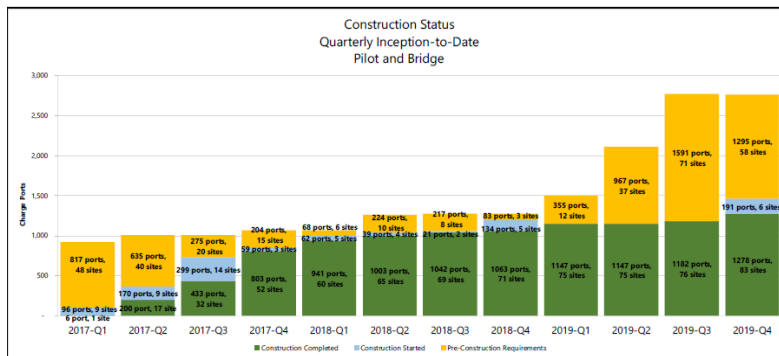
Customer Ownership

PORT



Example: IOU Pilot Program Report

Reporting heterogeneity



	NUMBER OF SITES	NUMBER OF PORTS
PROGRAM PARTICIPATION		
EV Charge Owner	72	1,338
EV Charge Sponsor	26	431
PROPERTY TYPE		
MUD	31	493
Workplace	67	1,276
DISADVANTAGED COMMUNITY STATUS		
Disadvantaged Community (DAC)	23	423
Other PG&E Territory	75	1,346

- Individual programs have different goals
- Reporting timelines vary
- Terminologies vary across IOUs and market segments



Example: IOU Pilot Program Report

Data as of April 2020

IOU	Program	Sites	Ports Energized
SCE	Charge Ready	141	2,610
PGE	EV-Charge Network	98	1,769
SDG&E	Power Your Drive	253	3,015
Total			7394



Program Specific Reporting

SB350 Program Template

<https://www.cpuc.ca.gov/sb350te/>

Target data features for SB350 programs

- Project metrics
- Hourly metrics
- Charging session data
- Customer metrics
- Utility project costs
- Charging session list

Harmonizing Terminologies

What is a PORT?

- Charger
- EVSE
- Station
- Charging Station

Which ones to count?

- Authorized by CPUC
- Approved by IOUs
- Make-ready installed
- Make-ready + EVSE installed

CPUC will classify public/private ports according to CARB's SB454 terminology



Next Steps...

- Anonymization of data
- Harmonize terms and metrics
- Avoiding double counting
- Standardize process and format of reporting
- Identifying areas where data reporting is may be difficult/challenging

Some Challenges...

Ports that could potentially remain unaccounted:

- Ports installed at sites not requiring utility infrastructure changes
- Customers do not inform utility of additional installations or de-commissioning of ports
- Inaccessible private/residential sectors (e.g. off-grid)

Charging Ahead...

