# DOCKETED

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<tr>
<th><strong>Docket Number:</strong></th>
<th>20-TRAN-03</th>
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<tbody>
<tr>
<td><strong>Project Title:</strong></td>
<td>Counting Electric Vehicle Chargers in California</td>
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<tr>
<td><strong>TN #:</strong></td>
<td>233392</td>
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<tr>
<td><strong>Document Title:</strong></td>
<td>Presentation - Counting EV Chargers - CPUC</td>
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<tr>
<td><strong>Description:</strong></td>
<td>Powerpoint presentation from CPUC Transportation Electrification Energy Division</td>
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<tr>
<td><strong>Filer:</strong></td>
<td>Tami Haas</td>
</tr>
<tr>
<td><strong>Organization:</strong></td>
<td>California Energy Commission</td>
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<td><strong>Submitter Role:</strong></td>
<td>Commission Staff</td>
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<td>6/10/2020</td>
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Counting EV Chargers

Sulekha Chattopadhyay
Transportation Electrification
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

Market Sectors
- Truck & Bus fleet
- Light-duty vehicles
- Off-road equipment
- Public DCFC
- Transportation Refrigeration Unit

Equity is important
TE Budget as of April 2020

- Light-duty vehicles: $1,200 million
- Medium- & Heavy-duty vehicles: $800 million
- Off-road
- Public DCFC

Available
Total
Proposed
Ports Authorized as of April 2020

- **LDV**
  - Approximately 8,500 installed
  - Up to 14,000 authorized

- **MD/HD**
  - Up to 1,570 authorized
IOU – Ownership Models

Total Ownership Model

Make-Ready Model

Utility Ownership

Customer Ownership

Image taken from SCE
Example: IOU Pilot Program Report

Reporting heterogeneity

- 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

<table>
<thead>
<tr>
<th>IOU</th>
<th>Program</th>
<th>Sites</th>
<th>Ports Energized</th>
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<tbody>
<tr>
<td>SCE</td>
<td>Charge Ready</td>
<td>141</td>
<td>2,610</td>
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<tr>
<td>PGE</td>
<td>EV-Charge Network</td>
<td>98</td>
<td>1,769</td>
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<td>SDG&amp;E</td>
<td>Power Your Drive</td>
<td>253</td>
<td>3,015</td>
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<td><strong>Total</strong></td>
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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...

- Ideas
- Questions
- Suggestions