California: Leading the Future of Transportation

Patty Monahan, Commissioner, California Energy Commission

May 10, 2022
<table>
<thead>
<tr>
<th>Year</th>
<th>Goal Description</th>
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<tbody>
<tr>
<td>2025</td>
<td>1.5 million EVs sold</td>
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<td>250,000 chargers installed</td>
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<td>200 public hydrogen stations</td>
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<td>2030</td>
<td>5 million EVs sold</td>
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<td>100% electric sales for new passenger vehicles</td>
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<td>2035</td>
<td>100% electric operations for medium- and heavy-duty vehicles</td>
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<tr>
<td>2045</td>
<td>100% electric operations for drayage trucks and off-road vehicles &amp; equipment</td>
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ZEVs Gaining Momentum and Market Share

CA New ZEV and PHEV Sales

- BEV
- PHEV
- FCEV

CA New Vehicle Market Share
Governor’s 2022-23 Budget
New CEC Funding: ZEV Infrastructure

- $600 Million: ZEV Infrastructure Grants
- $300 Million: Equitable At-Home Charging
- $250 Million: Drayage
- $140 Million: Transit Buses & Infrastructure
- $500 Million: Clean Trucks, Buses and Off-Road Equipment
- $150 Million: Ports
- $100 Million: Emerging Opportunities

Total: $2 Billion
Massive Scaleup Needed to Reach 2030 Goals

1.2M Chargers Needed for 8M Light Duty ZEVs in 2030

- Installed (2020): 70k chargers installed as of late 2020
- Projected (2025): 123k additional installations* by 2025, totaling 193k chargers state wide
- Gap (2025): Net gap of 57k chargers to 250k goal for 2025
- Gap (2030): Net gap of 972k to projected 2030 need of 1,164k chargers
Incentives for Zero-Emission Commercial Vehicle Infrastructure
Investing in School Buses with Vehicle-to-Grid Capability
Vehicle-to-Everything MOU
April 2022
Need to Grow Green Hydrogen Supply

Electric grid support

Hard to electrify industrial applications

Hard to electrify transportation
Thank You!