Electricity is Clean, Affordable, Local

Carbon Intensity of new gas vehicle vs. EV

~0.9lbCO2/mi

<0.3lbCO2/mi

<0.1lbCO2/mi

Monthly Motor Gasoline Retail Prices vs. Electricity Prices in $/gal-equivalent
EVs are creating value across Oregon.
Planning for New EV Loads

Number of Public EV Ports Required, PGE Service Area

- 2019: 1,000
- 2025: 6,000
- 2050: 40,000
Partnership is Driving Change

Transit Electrification
• TriMet: 5 e-bus operational
• SMART: 2 e-bus operational
• Planning for 10-20 buses in 2020
• PGE to own/operate chargers

EVS33 Event & Ecosystem
• Position Oregon as a leader in decarbonization
• Elevate profile of TE across the state

Fleet Electrification
• Daimler demonstration partnership
• Technical assistance and training
• Fleet electrification studies for PGE and our customers

TE Plan
• Charging needs assessment: 5k ports by 2025; 40k by 2050
• Behind the meter investment & smart charging programs

Clean Fuels Program
• Drive Change ($2M grant fund)
• 4+ electric school buses
• Community awareness campaign
• Innovative e-mobility hub

Expanding Charging Access
• 6 new Electric Avenue sites
• Charging make-ready offering
• Residential smart charging rebates
## Policy Opportunities

<table>
<thead>
<tr>
<th>Planning &amp; Utility Investment</th>
<th>Workforce Development</th>
<th>Codes and Standards</th>
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<tbody>
<tr>
<td>• planning studies to ensure communities are in front of charging needs</td>
<td>• create jobs, ensure equipment reliability, reduce long-term operation costs</td>
<td>• vehicle and charging standards</td>
</tr>
<tr>
<td>• utilities role in accelerating deployment of fueling infrastructure</td>
<td>• reduce long-term operation costs</td>
<td>• building codes to reduce infrastructure costs</td>
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Thank you!

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