VISION 2050 and Climate Change

1. Climate Background Paper:
   - Background information
   - Regional inventory
   - Emission reduction efforts
   - Potential opportunities

2. VISION 2050 Analysis
   - Analysis of Regional Growth Strategy alternatives

3. Continued implementation of adopted Four-Part Greenhouse Gas Strategy
Regional Emission Trends

- The region is meeting all federal and state air quality standards
- Emissions continue to decline into the future, while population increases
## Current Four-Part Greenhouse Gas Strategy

<table>
<thead>
<tr>
<th>Land Use</th>
<th>User Fees</th>
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<tbody>
<tr>
<td><strong>Land Use</strong></td>
<td>Implement VISION 2040</td>
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<td>• Jobs housing balance</td>
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<td>• Centers, transit oriented development and</td>
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<td>efficient Communities</td>
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<td>Technology</td>
<td><strong>User Fees</strong></td>
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<td>Implement roadway pricing to support VMT</td>
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<td>reduction and reduce travel delay emissions</td>
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<td>Choices</td>
<td>Expand transportation choices that reduce</td>
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<td>GHG emissions</td>
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<td>Technology</td>
<td><strong>Technology</strong></td>
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<td>Support development of technology to</td>
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<td>dramatically reduce tailpipe emissions</td>
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- Specific assumptions contained within each category
- Complementary to the state program, other regional initiatives
Regional Transportation Plan Analysis

<table>
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Assumptions include:

- Adopted Regional Growth Strategy, as expressed in adopted jurisdictional targets
- Regional integrated transit network, regional bicycle network, projects & programs
- Proposed financial strategy, including express toll lanes, road usage charge, parking fees, certain facility tolls, etc.
- Adopted CAFÉ and GHG vehicle standards, regional vehicle fleet characteristics, WA state parameters for fuel content, inspection programs, etc.
- **RTP analysis results in 2040 emissions ~24% below 2006 levels**
Regional Transportation Plan – Next Steps

Land Use

Additional / future work:
- VISION 2050 – planning for growth out to 2050
- TOD analysis – scenarios for greater development/concentration of growth around transit stations
  - Potential of 2-4% additional reductions

Choices

Additional / future work:
- Off-cycle analysis of pedestrian access to transit
- Increase in telework, alternative work schedules, etc.
  - Potential of 1-2% additional reductions
Regional Transportation Plan – Next Steps

**User Fees**

Additional / future work:
- Continued research on impact of various pricing mechanisms
- Review of pricing assumptions
- *Potential of 5% additional reductions*

**Technology**

Additional / future work:
- Updated future technology scenarios, such as:
  - Increased % of EVs in fleet, including shared ride EV assumptions
  - Further fuel and heavy duty improvements
  - *Potential of 20-40% additional reductions*
Potential Regional Action Steps

• VISION 2050 – planning for growth to 2050
  • TOD implementation
  • Zoning and development changes

• Continued policy focus on multimodal investments, access to transit
  • Policies and research to support telework and/or alternative work schedules

• Support implementation of pricing in region

• Support EV penetration in the region –
  • Zoning and other improvements to accommodate fast charging stations
  • Incentives / rebates / education for EV ownership and charging infrastructure
  • Policies and support for EVs in shared ride / carsharing services
  • Engage with current activities such as Electrify America, Clean Fleets
  • Continue collaboration / coordination with PSCAA
• PSCAA evaluating emission reduction strategies
• Current focus is research of a low carbon fuel standard, and supporting the advancement of electric vehicles
• PSRC continues to collaborate and provide technical assistance
• PSRC will continue to monitor progress, and engage with PSCAA and others to implement the Four-Part Greenhouse Gas Strategy
• Greenhouse gas emissions analyzed for the Regional Growth Strategy alternatives
  • *Part of the “what more can be done” under the Land Use scenario of the Four-Part GHG Strategy*
• VISION 2050 will subsequently inform the next Regional Transportation Plan
  • *What’s next for Choices and Pricing*
• Continued regional coordination on advancing *Technology*
• Identification of Next Steps and regional and local actions to implement the Four-Part GHG Strategy