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

- **Land Use**
  - Implement VISION 2040
    - Jobs housing balance
    - Centers, transit oriented development and efficient Communities

- **User Fees**
  - Implement roadway pricing to support VMT reduction and reduce travel delay emissions

- **Choices**
  - Expand transportation choices that reduce GHG emissions

- **Technology**
  - Support development of technology to dramatically reduce tailpipe emissions

- Specific assumptions contained within each category
- Complementary to the state program, other regional initiatives
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

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

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
Ongoing Coordination

- 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

Source: PSCAA
Greenhouse gas emissions to be 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