1.1: Reduce transportation related greenhouse gas emissions from 44.9 mmt/year (projected 2020) to 37.5 mmt/year (1990) by 2020

ENERGY MEASURES

Department of Commerce

Department of Ecology

Utilities & Transportation Commission

January 9, 2017
Background

Energy Measure Team Objectives

- Evaluate measures and related strategies so that we have…
  - The right mix of measures
  - The right targets will get us to needed GHG emissions
  - The right strategy portfolio that will get us to needed GHG emissions
  - And where there are gaps, the proposed actions to address them

Current State

WAGHG Limits (Current/Proposed)
Current State

Renewed Commitment by Washington to Reduce Greenhouse Gas Emissions

- Clean Air Rule (CAR)
- Carbon Tax Proposal
- New Recommended GHG Limits
- Coal Plant Retirements
- 7th NW Power Plan
- Regional and International Cooperation (PCC, GA, MOU2)
Problem/Opportunity

- Challenge to:
  - Decrease fossil fuel use in an era of abundant/cheap supplies
  - Develop “improved” measures e.g. carbon intensity, impact of CAR and carbon tax
  - Linkages to other goal council’s (esp. 2, 5) and other priorities within GC 3
  
  Possible links related to climate adaptation/mitigation

1.1 (Clean Transportation): Reduce transportation related greenhouse gas emissions from 44.9 mmt/year (projected 2020) to 37.5 mmt/year (1990) by 2020

**Strategies**

- Efficient vehicles
- Infrastructure
- Coordinate efforts
1.2 (Clean Electricity): Reduce greenhouse gas emissions from electrical energy consumption from 18.4 mmt/year (projected 2020) to 16.9 mmt/year (1990) by 2020

Strategies

- Conservation:
  - Reevaluate target in light of the Northwest Power and Conservation Council’s 7th Power Plan

- Renewable Energy:
  - Clean Air Rule
  - Support voluntary renewable energy procurement
  - Update Integrated Resource Planning requirements

- GHG emissions:
  - Challenge: Existing measures do not capture reductions in fossil fuel generation
  - Opportunity: Develop a new measure for carbon intensity of electricity in 2017

1.3 (Efficient Buildings & Industrial Processes): Improve non-electrical energy efficiency of buildings and industrial processes to reduce greenhouse gas emissions from 21.7 mmt/year (projected 2020) to 18.6 mmt/year (1991) by 2020

Strategies

Structure:

- Push forward with Energy Code improvements

- Increase retrofits of existing buildings

- Fund manufacturing/industrial efficiency improvements
**Proposed Energy Team Action Plan**

<table>
<thead>
<tr>
<th>Task</th>
<th>Task Lead</th>
<th>Partners</th>
<th>Expected Outcome</th>
<th>Status</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evaluate targets in light of new recommendations</td>
<td>Com</td>
<td>ECY, UTC, WSDOT</td>
<td>Greater alignment between new policy tools &amp; more ambitious reduction goals</td>
<td>Under Development</td>
<td>TBD</td>
</tr>
<tr>
<td>Develop strategies to make progress toward achieving targets</td>
<td>Com, ECY, UTC</td>
<td>TBD</td>
<td>Coordinated efforts</td>
<td>Under Development</td>
<td>TBD</td>
</tr>
<tr>
<td>Work to pass the Governor’s Carbon Tax</td>
<td>OFM</td>
<td>ECY</td>
<td>Carbon price signal and funds to implement GHG reduction projects</td>
<td>In process</td>
<td>2017 Legislative Session</td>
</tr>
<tr>
<td>Develop links to GC2 &amp; GC5 to achieve results</td>
<td>Com</td>
<td>GC2, GC5</td>
<td>Align GC3 actions with state actions 5.2.2 (Bldgs.) and 5.2.3 (Vehicles) &amp; Clean Tech actions in GC2</td>
<td>Under Development</td>
<td>Q2 2017</td>
</tr>
<tr>
<td>Revise action plan for industrial efficiency</td>
<td>Com</td>
<td>WSU-Energy</td>
<td>Develop strategies of improving industrial efficiency with limited funds</td>
<td>Under Development</td>
<td>Q2 2017</td>
</tr>
<tr>
<td>Develop carbon intensity measure for electricity production</td>
<td>UTC</td>
<td>Com</td>
<td>Better reflect actual carbon content of state electricity supplies</td>
<td>Near completion</td>
<td>Q1 2017</td>
</tr>
</tbody>
</table>

**Energy Measures (Clean Transportation, Clean Electricity, Efficient Buildings & Industrial Processes)**

**Assistance Needed**

- Assist with links to other Councils and Agencies
- Feedback on proposed actions (What did we miss?)
Presenters

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