



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 (Clean Transportation, Clean Electricity, Efficient Buildings & Industrial Processes)



ENERGY MEASURES

Department of Commerce

Department of Ecology

Utilities & Transportation Commission

January 9, 2017



Department of Commerce
Innovation is in our nature.



DEPARTMENT OF
ECOLOGY
State of Washington



Background

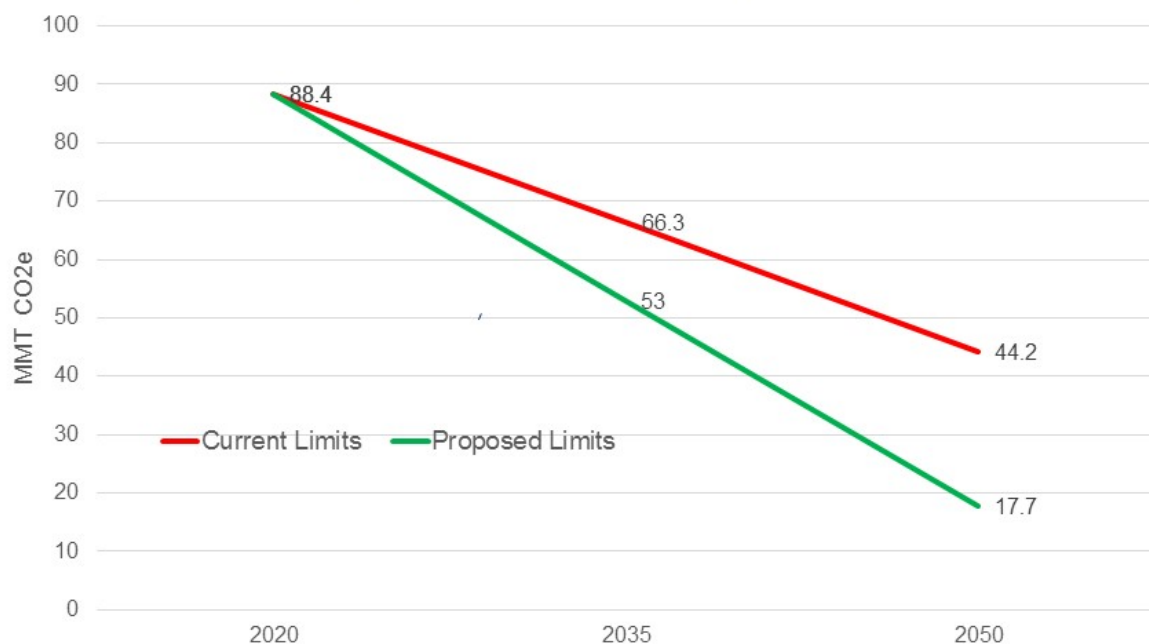
Energy Measure Team Objectives

- 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

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Current State

WAGHG Limits (Current/Proposed)

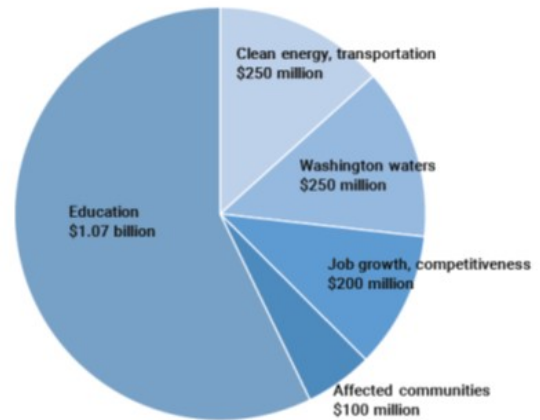


Current State

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)

2017–19 Carbon Revenue Investments

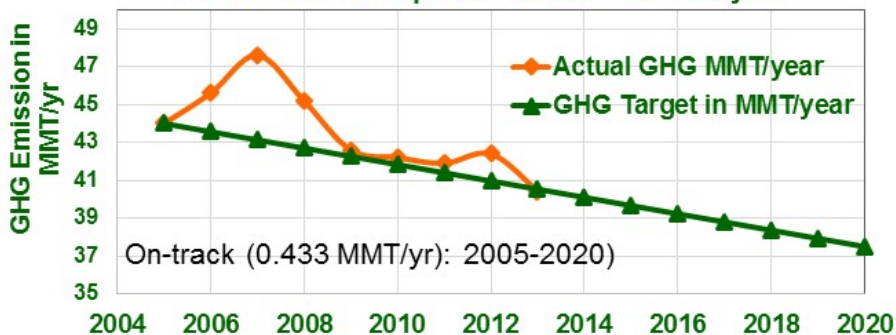


Problem/Opportunity

- 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

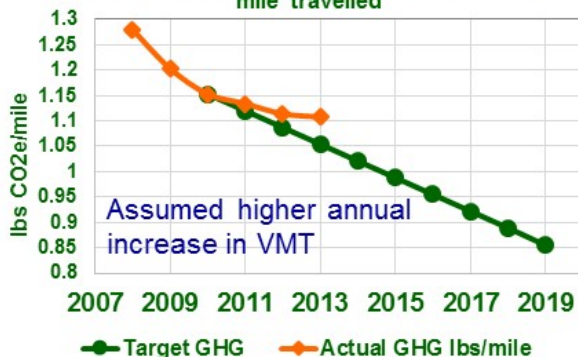
1.1. Annual Transportation GHG in MMT/year



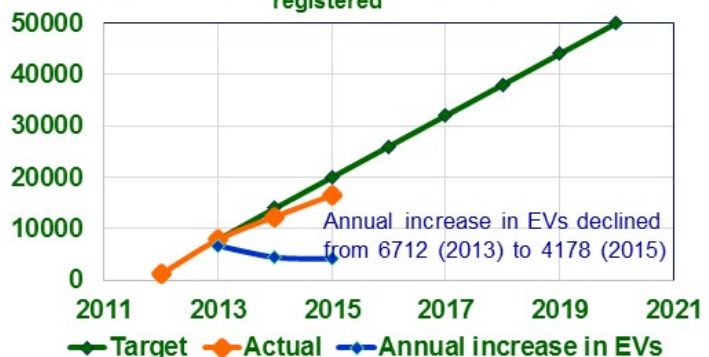
Strategies

Efficient vehicles
Infrastructure
Coordinate efforts

1.1.a. Average GHG emission per vehicle mile travelled



1.1.c. Number of plug-in electric vehicles registered



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

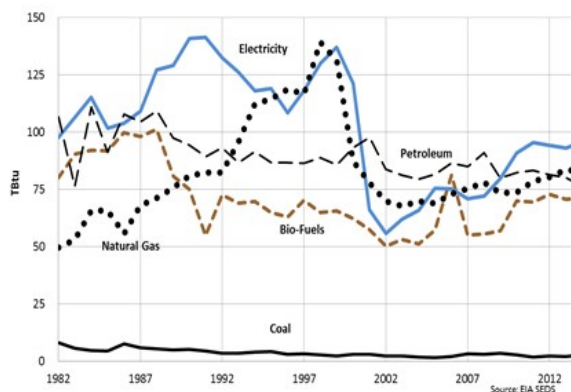
1.3 (Efficient Buildings & Industrial Processes): Improve non-electrical energy efficiency of buildings and industrial processes to reduce greenhouse gas emissions from 21.7 mmt/year (projected 2020) to 18.6 mmt/year (1991) by 2020

Strategies

Structure:

- Push forward with Energy Code improvements
- Increase retrofits of existing buildings
- Fund manufacturing/industrial efficiency improvements

Incremental Improvement Compared to Targets



Proposed Energy Team Action Plan

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

Assistance Needed

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



Optional Image

Presenters

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