



1.3: 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

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

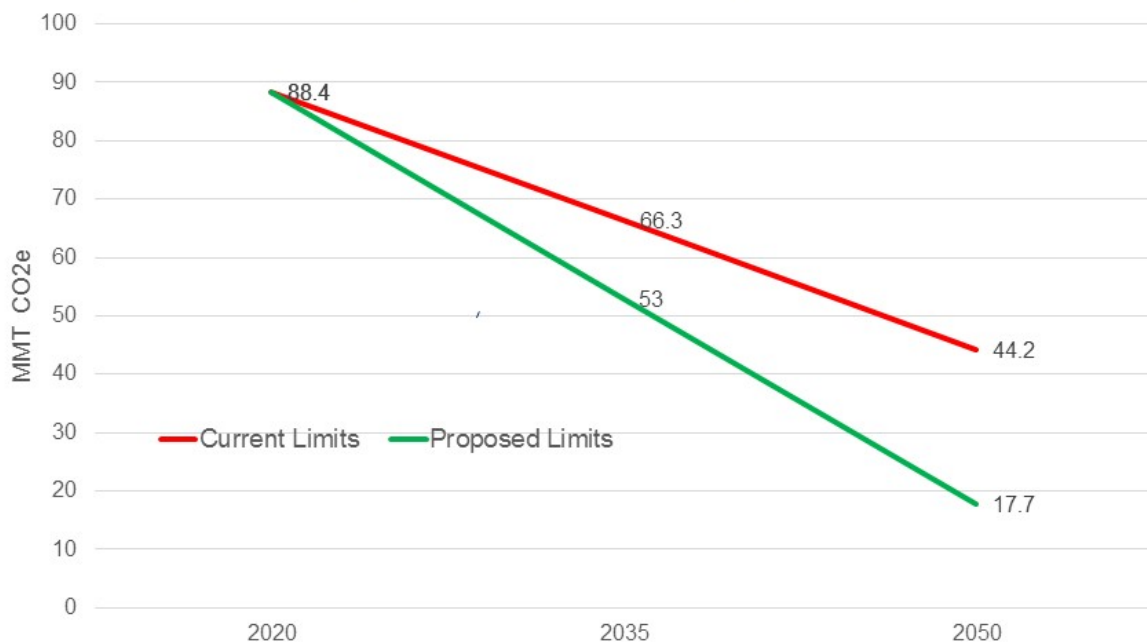
### Energy Measure Team Objectives

- 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)

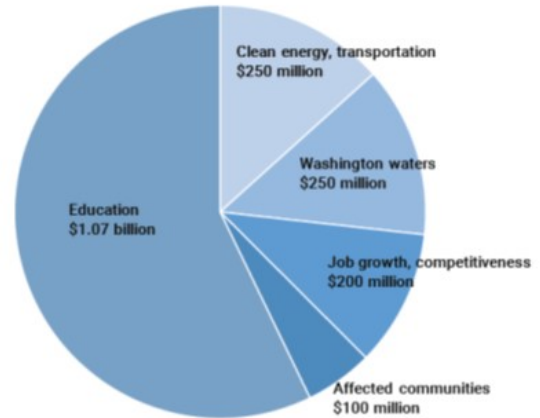


## Current State

### Renewed Commitment by Washington to Reduce Greenhouse Gas Emissions

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

2017-19 Carbon Revenue Investments

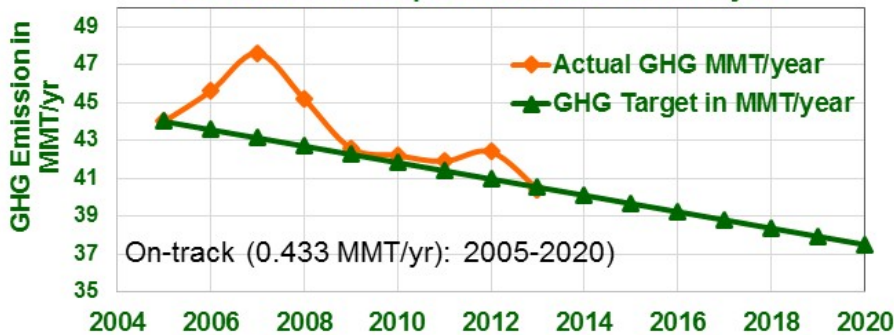


## Problem/Opportunity

- 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

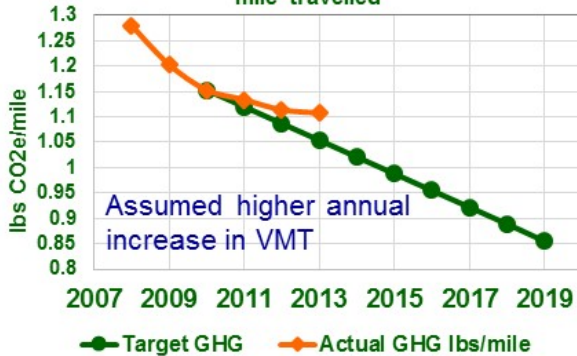
1.1. Annual Transportation GHG in MMT/year



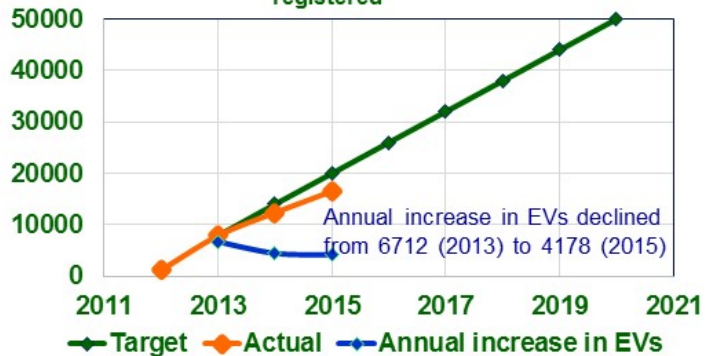
## Strategies

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 7<sup>th</sup> 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

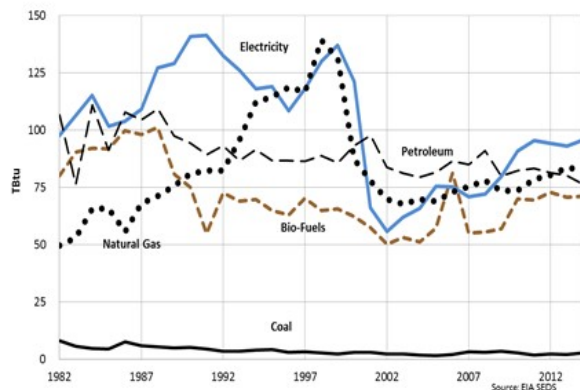
1.3 (Efficient Buildings & Industrial Processes): Improve non-electrical energy efficiency of buildings and industrial processes to reduce greenhouse gas emissions from 21.7 mmt/year (projected 2020) to 18.6 mmt/year (1991) by 2020

## 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?)



# Presenters

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