

Catalog of State Actions Forestry Working Group

A catalog of state-level, GHG-reducing actions and policy options based on actions undertaken or considered by state, local and private actors.

Key to Future Rankings of Options in the Tables that Follow:

Potential GHG Emission Reductions <u>1/</u>	Potential Cost or Cost Savings <u>1/ 2/</u>
High (H): At least 1.0 million metric tons (MMt) carbon dioxide equivalent (CO ₂ e) per year by 2020 (~1% of current WA emissions)	High (H): \$50 per metric ton CO ₂ e (tCO ₂ e) or above
Medium (M): From 0.1 to 1.0 MMtCO ₂ e per year by 2020	Medium (M): \$5-50/tCO ₂ e
Low (L): Less than 0.1 MMtCO ₂ e per year by 2020, or 1 MMtCO ₂ e by 2050	Low (L): Less than \$5/tCO ₂ e
Uncertain (U): Not able to estimate at this time	Negative (Neg): Net cost savings
	Uncertain (U): Not able to estimate at this time
<u>1/</u> Several measures may overlap in terms of emissions reductions and/or cost impacts. Estimates assume measures would be implemented independently from other measures.	
<u>2/</u> Costs are denoted by a positive number. Cost savings (i.e., “negative costs”) are denoted by a negative number.	

Definition of “Priorities for Analysis”:

- **High:** High priority options will be analyzed first.
- **Medium:** Medium priority options will be analyzed next, time and resources permitting.
- **Low:** Low priority options will be analyzed last, time and resources permitting.

Notation of Options:

* **Options marked in bold an asterisk (*)** indicate some of the related state actions that are approved or underway, as described further in the companion options description document. TWG members are encouraged to provide information on other relevant actions.

Forestry (F)

Option No.	GHG Reduction Policy Option	Potential GHG Emissions Reduction	Cost per Ton	Other Considerations: Jobs, Fuel Imports, Externalities, Feasibility	Priority for Analysis	Notes / Related Actions in WA State
F-1	PRODUCTION OF FUELS AND ELECTRICITY IN FORESTRY					
1.1	Expanded Use of Biomass Feedstocks for Electricity, Heat and Steam Production*					The 2006 Energy Independence Act (Initiative 937) established renewable portfolio standards. Related to AW 1.1
1.2	In-state Liquid Biofuels Production*					WA passed into several requirements/incentives supporting an in-state biodiesel and ethanol industry Current biodiesel production in the State, 15 facilities on line or in serious planning/development, about 270.5 million gallons per year. Biodiesel sold at 35 stations in WA. Ethanol production is about 435 million gallons per year from seven facilities in the permitting/planning stage. There are four E-85 fueling stations in the State. Related to AW 2.3
1.3	Improved Energy Capture from Wood Waste Combustion					
1.4	Improved Commercialization of					

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	Biomass Gasification and Combined Cycle					
F-2 FORESTRY – BIOMASS PROTECTION AND MANAGEMENT						
2.1	Forest Protection – Reduced Clearing and Conversion to Nonforest Cover					Applies to 2.1-2.4: Recent Actions in WA: DNR and WESTCARB produced an inventory of terrestrial carbon sequestration opportunities in Washington State.
2.2	Urban Forestry					
2.3	Afforestation/Restoration					
2.4	Forest Management for Carbon Sequestration					
F-3 FORESTRY - WOOD PRODUCTS AND WASTE						
3.1	Improved Mill Waste Recovery					
3.2	Improved Logging and Other Residue Recovery					
3.3	Expanded Use of Wood Products for Building Materials					