



## State Level GHG Reduction Policy Options

Prepared by The Center for Climate Strategies (CCS) for the Montana Climate Change Advisory Committee (CCAC) and its Scientific Advisory Panel (SAP) and Technical Work Groups (TWGs) based on actions undertaken or considered by all US states.

### Tables of Policy Options:

Table	Sectors Covered
1	Residential, Commercial, Industrial (RCI)
2	Energy Supply (ES)
3	Transportation and Land Use (TLU)
4	Agriculture, Forestry and Waste Management (AFW)
5	Cross Cutting Issues - Reporting, Registries, Education (CC)

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

Potential Emission Reductions <u>1/</u>	Potential Cost or Cost Savings <u>1/ 2/</u>
<b>High (H):</b> At least 1 Million Metric Tons (MMT) carbon dioxide equivalent (CO <sub>2</sub> e) per year by 2020 (~1% of current MT emissions)	<b>High (H):</b> \$50 per Metric Ton CO <sub>2</sub> e (MTCO <sub>2</sub> e) or above
<b>Medium (M):</b> From 0.1 to 1 MMT CO <sub>2</sub> e per year by 2020	<b>Medium (M):</b> \$5-50/MTCO <sub>2</sub> e
<b>Low (L):</b> Less than 0.1 MMT CO <sub>2</sub> e per year by 2020, or 1 MMT CO <sub>2</sub> e by 2050	<b>Low (L):</b> Less than \$5/MTCO <sub>2</sub> e
<b>Uncertain (U):</b> Not able to estimate at this time	<b>Uncertain (U):</b> 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 will be marked with an asterisk (\*) at a later date to indicate options that are at least partially “base case” policies, i.e., that have been considered or undertaken at some level in Montana.

**Table 1 - Residential, Commercial, Industrial (RCI)**

<b>Option No.</b>	<b>GHG Reduction Policy Option</b>	<b>Priority for Analysis</b>	<b>Potential GHG Emissions Reduction</b>	<b>Potential Cost or Cost Savings</b>	<b>Ancillary Impacts, Feasibility Considerations</b>	<b>Notes</b>
<b>RCI-1</b>	<b>ENERGY EFFICIENCY PROGRAMS, FUNDS, AND GOALS</b>					
1.1	Utility Demand Side Management (DSM) Programs for Electricity, Natural Gas, Propane, Fuel Oil					
1.2	Energy Efficiency Funds (e.g. Public Benefit Funds) administered by State agency, utility, or 3rd party (e.g. Energy Trust)					
<b>RCI-1</b>	<b>ENERGY EFFICIENCY PROGRAMS, FUNDS, AND GOALS (CONTINUED)</b>					
1.3	Energy Efficiency Requirements (e.g. Utility Savings Goals or Energy Portfolio Standards)					
1.4	Market Transformation and Technology Development Programs					
<b>RCI-2</b>	<b>APPLIANCE STANDARDS</b>					

Option No.	GHG Reduction Policy Option	Priority for Analysis	Potential GHG Emissions Reduction	Potential Cost or Cost Savings	Ancillary Impacts, Feasibility Considerations	Notes
2.1	Expansion of State-level Appliance Efficiency Standards					
2.2	Support for Federal-level Appliance Efficiency Standards					
<b>RCI-3</b>	<b>BUILDINGS</b>					
3.1	Improved Building Codes					
3.2	Promotion and Incentives for Improved Design and Construction (e.g. LEED <sup>1</sup> , green buildings)					
3.3	Training and Education for Builders and Contractors (e.g. HVAC <sup>2</sup> sizing, duct sealing)					
3.4	Training of Building Code and Other Officials in Energy Code Enforcement					
<b>RCI-3</b>	<b>BUILDINGS (CONTINUED)</b>					
3.5	Building Commissioning and Recommissioning, including Energy Tracking and Benchmarking					
3.6	Energy Management					

<sup>1</sup> LEED = Leadership in Energy Efficiency Design, a national building certification program.

<sup>2</sup> HVAC = Heating, Ventilation, and Air Conditioning

Option No.	GHG Reduction Policy Option	Priority for Analysis	Potential GHG Emissions Reduction	Potential Cost or Cost Savings	Ancillary Impacts, Feasibility Considerations	Notes
	Training/Training of Building Operators					
3.7	Increased Use of Blended Cement (substituting fly ash or other pozzolans for clinker reduces CO <sub>2</sub> emissions)					
3.8	Reduction of Emissions from Diesel Engines Used in New Construction Developments					
<b>RCI-4</b>	<b>EDUCATION AND OUTREACH</b>					
4.1	Consumer Education Programs					
4.2	Introduce in School Curriculum					
<b>RCI-5</b>	<b>PRICING AND PURCHASING</b>					
5.1	Green Power Purchasing					
5.2	Bulk Purchasing Programs for Energy Efficiency or other Equipment (Public or Private sector)					
5.3	Net-metering Policies					
5.4	Time of Use Rates					
<b>RCI-6</b>	<b>TECHNOLOGY-SPECIFIC POLICIES</b>					
6.1	Incentives for Renewable Energy Applications (Solar					

Option No.	GHG Reduction Policy Option	Priority for Analysis	Potential GHG Emissions Reduction	Potential Cost or Cost Savings	Ancillary Impacts, Feasibility Considerations	Notes
	roofs, water heaters, etc.)					
6.2	Clean Combined Heat and Power					
6.3	Promotion and Tax or Other Incentives (e.g. EnergyStar, credits for solar hot water)					
6.4	Appliance Recycling/Pick-Up Programs					
6.5	White Roofs, Rooftop Gardens, and Landscaping (including Shade Tree Programs)					
<b>RCI-6</b>	<b>TECHNOLOGY-SPECIFIC POLICIES (CONTINUED)</b>					
6.6	Focus on Specific End-uses/Technologies (window AC units, lighting, water heating, plug loads, networked PC management, power supplies, motors, pumps, boilers, etc) Consumer Products Programs (may include incentives, retailer training, marketing and promotion, education, etc)					
<b>RCI-7</b>	<b>NON-ENERGY EMISSIONS (HFCS, PFCS, SF<sub>6</sub>, CO<sub>2</sub> PROCESS EMISSIONS</b>					

Option No.	GHG Reduction Policy Option	Priority for Analysis	Potential GHG Emissions Reduction	Potential Cost or Cost Savings	Ancillary Impacts, Feasibility Considerations	Notes
7.1	Participation in Voluntary Industry-Government Partnerships					
7.2	Process Changes/ Optimization					
7.3	Leak Reduction /Capture, Recovery and Recycling of Process Gases					
7.4	Use of Alternative Gases (other HFCs, hydrocarbon coolants/refrigerants, etc.)					
7.5	Cement Industry: Use of Alternative Fuels					
<b>RCI-8</b>	<b>GHG EMISSIONS-SPECIFIC GOALS AND POLICIES</b>					
8.1	Support for Switching to Less Carbon-Intensive Fuels (coal and oil to natural gas or biomass)					
8.2	Industry-Specific Emissions Cap and Trade Programs					
8.3	Voluntary Emissions Targets					
8.4	Small-source Aggregation					
8.5	Negotiated Emissions or Energy Savings Agreements					

Option No.	GHG Reduction Policy Option	Priority for Analysis	Potential GHG Emissions Reduction	Potential Cost or Cost Savings	Ancillary Impacts, Feasibility Considerations	Notes
<b>RCI-9</b>	<b>OTHER</b>					
9.1	Government Agency Requirements and Goals (including procurement)					
9.2	Focus on Specific Market Segments: existing homes (weatherization), new construction, apartments, low income, etc.					
9.3	Reinvestment Fund					
9.4	Municipal Energy Management					
9.5	Focus on Small and Medium Enterprises (SMEs)					
9.6	Industrial Ecology/ By-Product Synergy					
9.7	Industrial Audits					

**Table 2 - Energy Supply (ES)**

Option No.	GHG Reduction Policy Option	Priority for Analysis	Potential GHG Emissions Reduction	Potential Cost or Cost Savings	Ancillary Impacts, Feasibility Considerations	Notes
ES-1	<b>RENEWABLE ENERGY</b>					
1.1	Environmental Portfolio Standard (renewables and energy efficiency) with renewable energy credit trading					
1.2	Greenpower Renewable Resources Programs					
1.3	State Purchase of Electricity Through Greenpower Renewable Resources Programs					
1.4	Public Benefit Charge Funds					
1.5	Renewable Energy Incentives (biomass, wind, solar, geothermal)					
1.6	Green Power Purchases and Marketing					
1.7	Renewable Energy Development Issues (zoning, siting, etc.)					

Option No.	GHG Reduction Policy Option	Priority for Analysis	Potential GHG Emissions Reduction	Potential Cost or Cost Savings	Ancillary Impacts, Feasibility Considerations	Notes
1.8	Research and Development (R&D)					
1.9	Landfill Gas Recovery (see also Waste)					
1.10	Waste to Energy (see also Waste)					
<b>ES-2</b>	<b>DISTRIBUTED GENERATION (DG)</b>					
2.1	Incentives for Combined Heat and Power (CHP) and Clean DG					
2.2	Removing Barriers to CHP and Clean DG (including utility rate and interconnection barriers, financing, information, etc.)					
2.3	Interconnection Rules for Clean, Distributed Generation					
2.4	Net Metering					
2.5	Pricing Strategies					
<b>ES-3</b>	<b>ADVANCED FOSSIL FUEL</b>					
3.1	Incentives for Advanced Coal, Including IGCC and Carbon Capture and Storage (CCS)					
3.2	Incentives for CO2 Pipelines for CCS					

<b>Option No.</b>	<b>GHG Reduction Policy Option</b>	<b>Priority for Analysis</b>	<b>Potential GHG Emissions Reduction</b>	<b>Potential Cost or Cost Savings</b>	<b>Ancillary Impacts, Feasibility Considerations</b>	<b>Notes</b>
3.3	Fuel Cell Development Incentives					
3.4	Combined H2/Electricity Production from Fossil Fuels with Sequestration					
3.5	Research and Development (R&D)					
<b>ES-4</b>	<b>NUCLEAR</b>					
4.1	New Nuclear Capacity and Licensing					
4.2	Nuclear Plant Relicensing					
4.3	Nuclear Plant Upgrading					
<b>ES-5</b>	<b>OTHER ELECTRICITY MEASURES</b>					
5.1	Efficiency Improvements and Repowering Existing Plants					
5.2	Transmission System Upgrading					
5.3	Reduce Transmission and Distribution Line Loss					
<b>ES-6</b>	<b>EMISSIONS POLICIES</b>					
6.1	CO2 Tax					
6.2	GHG Cap and Trade					
6.3	Generation Performance Standards					

<b>Option No.</b>	<b>GHG Reduction Policy Option</b>	<b>Priority for Analysis</b>	<b>Potential GHG Emissions Reduction</b>	<b>Potential Cost or Cost Savings</b>	<b>Ancillary Impacts, Feasibility Considerations</b>	<b>Notes</b>
6.4	GHG Offset/Mitigation Requirements for New Power Plants					
6.5	GHG Offset/Mitigation Requirements for Existing Power Plants					
6.6	Voluntary Utility CO2 Targets					
<b>ES-7</b>	<b>EDUCATION/AWARENESS</b>					
7.1	Brownfield Re-development					
7.2	Environmental (emissions) Disclosure					
7.3	Public Education					

**Table 3 - Transportation and Land Use (TLU)**

<b>Option No.</b>	<b>GHG Reduction Policy Option</b>	<b>Priority for Analysis</b>	<b>Potential GHG Emissions Reduction</b>	<b>Potential Cost or Cost Savings</b>	<b>Ancillary Impacts, Feasibility Considerations</b>	<b>Notes</b>
<b>TLU-1</b>	<b>PASSENGER VEHICLE GHG EMISSION RATES</b>					
<b>TLU-1.1</b>	<b>VEHICLE TECHNOLOGY</b>					
1.1.1	Tailpipe GHG Emission Standards					
1.1.2	ZEV/LEV-2 Implementation					
1.1.3	R&D on Low-GHG Vehicle Technology (e.g., fuel cell)					
1.1.4	Add-on Technologies (Low Friction Oil, Low-Rolling Resistance Tires)					
<b>TLU-1.2</b>	<b>VEHICLE OPERATION</b>					
1.2.1	Enforce Speed Limits					
1.2.2	Vehicle Maintenance, Driver Training					
1.2.3	Transportation System Management					
<b>TLU-1.3</b>	<b>INCENTIVES &amp; DISINCENTIVES</b>					
1.3.1	Procurement of Efficient Fleet Vehicles					
1.3.2	Feebates (state-specific or regional)					

Option No.	GHG Reduction Policy Option	Priority for Analysis	Potential GHG Emissions Reduction	Potential Cost or Cost Savings	Ancillary Impacts, Feasibility Considerations	Notes
1.3.3	CO <sub>2</sub> -based Registration Fees					
1.3.4	Tax Credits for Efficient Vehicles					
1.3.5	Vehicle Scrappage					
<b>TLU-2</b>	<b>LAND USE AND LOCATION EFFICIENCY</b>					
<b>TLU-2.1</b>	<b>GENERAL</b>					
2.1.1	Infill, Brownfield Re-development					
2.1.2	Transit-Oriented Development					
2.1.3	Smart Growth Planning, Modeling, Tools					
2.1.4	Targeted Open Space Protection					
<b>TLU-2.2</b>	<b>INCREASING LOW-GHG TRAVEL OPTIONS</b>					
2.2.1	Make Full Use of CMAQ funds					
2.2.2	Improve Transit Service (frequency, convenience, quality)					
2.2.3	Transit Marketing and Promotion					
2.2.4	Bike and Pedestrian Infrastructure					

Option No.	GHG Reduction Policy Option	Priority for Analysis	Potential GHG Emissions Reduction	Potential Cost or Cost Savings	Ancillary Impacts, Feasibility Considerations	Notes
2.2.5	Expand Transit Infrastructure (rail, bus, BRT)					
2.2.6	HOV lanes					
2.2.7	"Fix-it-First"					
2.2.8	Transit Prioritization (signal prioritization, HOV lanes)					
2.2.9	Telecommute and Live-Near-Your-Work					
2.2.10	Car Sharing					
2.2.11	E-Commerce					
<b>TLU-2.3</b>	<b>INCENTIVES &amp; DISINCENTIVES</b>					
2.3.1	Commuter Choice/Parking Cash Out					
2.3.2	VMT Tax					
2.3.3	Pay As You Drive Insurance					
2.3.4	Increased Fuel Tax (w/ targeted use of revenue towards travel alternatives)					
2.3.5	Location-Efficient Mortgages					
2.3.6	Congestion Pricing (or tolls) (w/ targeted use of revenue towards travel alternatives)					

Option No.	GHG Reduction Policy Option	Priority for Analysis	Potential GHG Emissions Reduction	Potential Cost or Cost Savings	Ancillary Impacts, Feasibility Considerations	Notes
2.3.7	Parking Pricing or Supply Restrictions					
2.3.8	Transit Repositioning					
2.3.9	Transit Pricing Incentives					
2.3.10	VMT/GHG Offset Requirements for Large Developments					
2.3.11	Benefits for Low GHG Vehicles (preferential parking, use of HOV lanes)					
<b>TLU-2.4</b>	<b>FUEL MEASURES</b>					
2.4.1	Low-GHG Fuel Standard (e.g., renewable)					
2.4.2	Low-GHG Fuel for State Fleets (e.g., CNG, biodiesel)					
2.4.3	Biofuel Expansion (biodiesel, CNG, LPG, cellulosic ethanol)					
2.4.4	Alternative Fuel Infrastructure Development					
<b>TLU-3</b>	<b>FREIGHT</b>					
<b>TLU-3.1</b>	<b>VEHICLE TECHNOLOGY</b>					
3.1.1	Vehicle Technology Improvements (e.g., aerodynamics)					

Option No.	GHG Reduction Policy Option	Priority for Analysis	Potential GHG Emissions Reduction	Potential Cost or Cost Savings	Ancillary Impacts, Feasibility Considerations	Notes
3.1.2	R&D on Low-GHG Vehicle Technology					
3.1.3	Low-sulfur Diesel					
3.1.4	Black Carbon Control Technologies (e.g., use of particulate traps, other complementary technologies)					
<b>TLU-3.2</b>	<b>VEHICLE OPERATION</b>					
3.2.1	Freight Logistics Improvements/GIS					
3.2.2	Enforce Speed Limits					
3.2.3	Improve Traffic Flow					
3.2.4	Increased Size & Weight of Trucks					
3.2.5	Increase the Number of Rest Areas					
3.2.6	Pre-clearance at Scale Houses					
3.2.7	Truck Stop Electrification					
3.2.8	Enforce Anti-Idling					
<b>TLU-3.3</b>	<b>INCREASING LOW-GHG TRAVEL OPTIONS</b>					
3.3.1	Intermodal Freight Initiatives					
3.3.2	Feeder Barge Container Service					
<b>TLU-3.4</b>	<b>INCENTIVES &amp; DISINCENTIVES</b>					

Option No.	GHG Reduction Policy Option	Priority for Analysis	Potential GHG Emissions Reduction	Potential Cost or Cost Savings	Ancillary Impacts, Feasibility Considerations	Notes
3.4.1	Procurement of Efficient Fleet Vehicles (public, private or other)					
3.4.2	Incentives to Retire or Improve Older Less Efficient Vehicles					
3.4.3	Maintenance and Driver Training					
3.4.4	Increased Truck Tolls or Highway User Fees					
<b>TLU-4</b>	<b>INTERCITY TRAVEL: AVIATION, HIGH SPEED RAIL, BUS</b>					
4.1	High-speed Rail					
4.2	Integrated Aviation, Rail, Bus Networks					
4.3	Aircraft Emissions					
4.4	Airport Ground Equipment					
<b>TLU-5</b>	<b>OFF-ROAD VEHICLES (CONSTRUCTION EQUIPMENT, OUT-BOARD MOTORS, ATVS, ETC)</b>					
5.1	Incentives for Purchase of Efficient Vehicles/Equipment					
5.2	Improved Operations, Operator Training					
5.3	Maintenance Improvements					
5.4	Increased Use of Alternative Fuels or Low Sulfur Diesel					



**Table 4 - Agriculture, Forestry, Waste Management (AFW)**

<b>Option No.</b>	<b>GHG Reduction Policy Option</b>	<b>Priority for Analysis</b>	<b>Potential GHG Emissions Reduction</b>	<b>Potential Cost or Cost Savings</b>	<b>Ancillary Impacts, Feasibility Considerations</b>	<b>Notes</b>
<b>AFW-1</b>	<b>AGRICULTURE – PRODUCTION OF FUELS AND ELECTRICITY</b>					
1.1	Manure Digesters/Other Waste Energy Utilization					
1.2	Biodiesel Production (incentives for feedstocks and production plants)					
1.3	Biomass Feedstocks for Electricity or Steam Production					
1.4	Ethanol Production					
<b>AFW-2</b>	<b>AGRICULTURE – FERTILIZER AND MANURE MANAGEMENT</b>					
2.1	Nutrient Management (improve efficiency of fertilizer use)					
2.2	Manure Management (improve application methods)					
2.3	Manure Composting					
2.4	Change Feedstocks (optimize nitrogen for N <sub>2</sub> O reduction)					

Option No.	GHG Reduction Policy Option	Priority for Analysis	Potential GHG Emissions Reduction	Potential Cost or Cost Savings	Ancillary Impacts, Feasibility Considerations	Notes
2.5	Reduce Non-Farm (Residential and Commercial) Fertilizer Use					
<b>AFW-3</b>	<b>AGRICULTURE – SOIL CARBON MANAGEMENT</b>					
3.1	Conservation Tillage/No-Till (carbon sequestration and reduced energy use)					
3.2	Reduce Summer Fallow (increase soil C content, reduce N <sub>2</sub> O emissions)					
3.3	Increase Winter Cover Crops (increase soil C content, increase soil N content)					
3.4	Improve Water and Nutrient Use (to minimize soil C loss)					
3.5	Rotational Grazing/Improve Grazing Crops and/or Management					
<b>AFW-4</b>	<b>AGRICULTURE – LAND USE CHANGE</b>					
4.1	Convert Land to Grassland or Forest					
4.2	Preserve Open Space/Agricultural Land					
4.3	Promote “No Net Loss” of Agricultural Land					

Option No.	GHG Reduction Policy Option	Priority for Analysis	Potential GHG Emissions Reduction	Potential Cost or Cost Savings	Ancillary Impacts, Feasibility Considerations	Notes
<b>AFW-5</b>	<b>AGRICULTURE – FARMING PRACTICES</b>					
5.1	Convert Diesel Farm Equipment to LNG/CNG or Hybrid Technology					
5.2	Organic Farming					
5.3	Programs to Support Local Farming/Buy Local					
<b>AFW-6</b>	<b>FORESTRY – BIOMASS PROTECTION AND MANAGEMENT</b>					
6.1	Forest Protection – Reduced Clearing And Conversion to Nonforest Cover					
6.2	Increase Maintenance of Urban and Residential Trees					
6.3	Afforestation and/or Restoration of Nonforested Lands					
6.4	Reforestation/Restoration of Managed Stands					
6.5	Increased Stocking of Poorly Stocked Lands					
6.6	Age Extension of Managed Stands					
6.7	Thinning and Density Management of Managed Stands					

<b>Option No.</b>	<b>GHG Reduction Policy Option</b>	<b>Priority for Analysis</b>	<b>Potential GHG Emissions Reduction</b>	<b>Potential Cost or Cost Savings</b>	<b>Ancillary Impacts, Feasibility Considerations</b>	<b>Notes</b>
6.8	Fertilization and Waste Recycling					
6.9	Expand Short Rotation Woody Crops (for fiber and energy)					
6.10	Expanded Use of Genetically Preferred Species					
6.11	Modified Biomass Removal Practices (reduced decay and energy use)					
6.12	Fire Management and Risk Reduction Programs					
6.13	Ecosystem Health Risk Reduction Programs (pest/disease, invasive species)					
6.14	Drought Management Programs (tree selection, placement, protection)					
6.15	Flood and Riparian Management Programs (tree selection, placement, protection)					

<b>Option No.</b>	<b>GHG Reduction Policy Option</b>	<b>Priority for Analysis</b>	<b>Potential GHG Emissions Reduction</b>	<b>Potential Cost or Cost Savings</b>	<b>Ancillary Impacts, Feasibility Considerations</b>	<b>Notes</b>
6.16	Watershed Management Programs (stand retention, enhancement and management)					
6.17	Habitat Management Programs (stand retention, enhancement and management)					
<b>AFW-7</b>	<b>FORESTRY - WOOD PRODUCTS AND WASTE</b>					
7.1	Improved Mill Waste Recovery					
7.2	Improved Logging Residue Recovery					
7.3	Expanded Use of Wood Products for Building Materials					
7.4	Expanded Use of State and Locally-Grown Wood Products					
<b>AFW-8</b>	<b>FORESTRY – ENERGY PRODUCTION</b>					
8.1	Expanded Use of Forest Biomass Feedstocks for Electricity (fuel switching)					

Option No.	GHG Reduction Policy Option	Priority for Analysis	Potential GHG Emissions Reduction	Potential Cost or Cost Savings	Ancillary Impacts, Feasibility Considerations	Notes
8.2	Expanded Use of Forest Biomass Feedstocks for Residential, Commercial/Institutional, or Industrial Heating					
8.3	Improved Efficiency of Wood Burning Stoves and Direct Heat					
8.4	Improved Energy Capture from Wood Waste Combustion					
8.5	Expanded Landfill Methane Recapture (wood products waste)					
8.6	Improved Commercialization of Biomass Gasification and Combined Cycle					
<b>AFW-9</b>	<b>WASTE MANAGEMENT – WASTE MANAGEMENT STRATEGIES</b>					
9.1	Advanced Recycling and Composting					
9.2	Advanced Municipal Solid Waste Management Practices (e.g., bioreactors)					
9.3	Source Reduction Strategies					
9.4	Resource Management Contracting					

<b>Option No.</b>	<b>GHG Reduction Policy Option</b>	<b>Priority for Analysis</b>	<b>Potential GHG Emissions Reduction</b>	<b>Potential Cost or Cost Savings</b>	<b>Ancillary Impacts, Feasibility Considerations</b>	<b>Notes</b>
9.5	Manure Digesters					
9.6	Waste Coal Recapture					
<b>AFW-10</b>	<b>WASTE MANAGEMENT – LANDFILL GAS STRATEGIES</b>					
10.1	Flare Landfill Methane at non-NSPS (smaller) sites					
10.2	Methane and Biogas Energy Programs					
10.3	Convert Landfill Methane to Electric Power, Space Heat, or LNG					
<b>AFW-11</b>	<b>WASTE MANAGEMENT – WASTEWATER ACTIVITIES</b>					
11.1	Energy Efficiency Improvements					
11.2	Lower Waste Processing Needs (lower water consumption, waste production)					
11.3	Install Digesters and Turbines					
11.4	Install Fuel Cells					

**Table 5 - Cross Cutting Issues (CC)**

<b>Option No.</b>	<b>GHG Reduction Policy Option</b>	<b>Priority for Analysis</b>	<b>Potential GHG Emissions Reduction</b>	<b>Potential Cost or Cost Savings</b>	<b>Ancillary Impacts, Feasibility Considerations</b>	<b>Notes</b>
<b>CC-1</b>	<b>INVENTORIES, FORECASTING AND MONITORING</b>					
1.1	Establish & Fund Mandatory GHG Emission Inventory Function at State Agency				•	
1.2	GHG Emissions Forecasting				•	
1.3	GHG Emissions Monitoring				•	
<b>CC-2</b>	<b>REPORTING</b>					
2.1	GHG Reporting				•	
2.2	Report MT Emissions from State Facilities & Vehicles to Public & 1605(b)				•	
2.3	Include Non-CO2 GHGs				•	
2.4	Define CO2 & Non-CO2 GHGs as Pollutants				•	
2.5	Require Mandatory GHG Reporting for Major Sources				•	

Option No.	GHG Reduction Policy Option	Priority for Analysis	Potential GHG Emissions Reduction	Potential Cost or Cost Savings	Ancillary Impacts, Feasibility Considerations	Notes
2.6	Provide Assistance to Facilities in Reporting & Registering GHG Emissions				•	
<b>CC-3</b>	<b>REGISTRY</b>					
3.1	RGGR Registry				•	
3.2	Register Reductions in State Facility & Vehicle Emissions for Future Market Use (within 3 years after resources authorized)				•	
3.3	Register Increased Sequestration Associated with Ag/Forestry Practices				•	
<b>CC-4</b>	<b>EDUCATION</b>					
4.1	Reinforce Sources of GHG, Need for State Energy Plan Implementation				•	
4.2	Promote Clean Fuel Technologies				•	
4.3	Promote Energy-Tech Economic Development				•	
4.4	Promote R&D & Demo Projects for Economic Development				•	
4.5	Extend Training Programs for RCI Building Operators				•	

<b>Option No.</b>	<b>GHG Reduction Policy Option</b>	<b>Priority for Analysis</b>	<b>Potential GHG Emissions Reduction</b>	<b>Potential Cost or Cost Savings</b>	<b>Ancillary Impacts, Feasibility Considerations</b>	<b>Notes</b>
4.6	Public Education Initiatives				•	
4.7	Promote Green Power				•	
4.8	Promote CHP				•	
4.9	Require Environmental Disclosure on Utility Bills				•	
4.10	Promote Local Farm Produce				•	
4.11	Augment Existing Education Efforts				•	
4.12	Add GHG to Air Awareness efforts				•	