Greenhouse Gas (GHG) & Carbon Mitigation Working Group (MWG) Policy Options

www.mde.state.md.us/Air/climatechange/index.asp

Cross Cutting (CC)

- **GHG Inventories and Forecasting (CC-1):** *Prepare a statewide inventory and forecast of GHG sources and sinks.* ***LEAD: Maryland Department of the Environment (MDE)***
- **GHG Report and Registry (CC-2):** *Establish and oversee a GHG reporting system for GHG emitting sources.* ***LEAD: MDE***
- **Statewide GHG Reduction Goals and Targets (CC-3):** *Adopt a 25% by 2020 GHG emission reduction goal from a 2006 baseline.* ***LEAD: MDE***
- **State and Local Government Lead by Example (CC-4):** *Promote energy efficiencies and GHG reductions through procurement and purchasing practices for State and local governments.* ***LEAD: MDE***
- **Public Education and Outreach (CC-5):** *Combine current educational and action campaigns on climate change with community action and State climate change policies.* ***LEAD: MDE***
- **Review Institutional Capacity to Address Climate Change Issues Including Seeking Funding for Implementation of Climate Action Panel Recommendations (CC-7):** *Develop the State governance, organizational capacity, and funding to focus on GHG mitigation and adaptation policies and programs.* ***LEAD: Commission***
- **Participate in Regional, Multi-State, and National GHG Reduction Efforts (CC-8):** *Participate in and encourage regional programs and national organizations to work with the Federal government to reduce GHG emissions.* ***LEAD: MDE***
- **Promote Economic Development Opportunities Associated with Reducing GHG Emissions in Maryland (CC-9):** *Work with public and private entities to develop green industries and jobs.* LEAD: ***Department of Business and Economic Development (DBED)***
- **Creat Capacity to Address Climate Change in an "After Peak Oil" Context (CC-10):** *Evaluate proposed policies and legislation to avoid the potential of increased GHG emissions for inexpensive oil alternatives.* ***LEAD: Maryland Energy Administration (MEA)***
- **Evaluate Climate Change Policy Options to Determine Projected Public Health Risks/Costs/Benefits (CC-11):** *Review the health risks, costs, and benefits of proposed climate change policies and legislation.* ***LEAD: Department of Health and Mental Hygiene (DHMH)***

Residential, Commercial, and Industrial Buildings (RCI)

- **Improved Building Codes & Trade Codes & Beyond (RCI-1):** *Reduce energy consumption in new or renovated buildings through improvement and enforcement of building and trade codes.* **LEAD: Department of Housing and Community Development (DHCD)**
- **Demand-Side Management (DSM)/Energy Efficiency Programs, Funds, or Goals, for Electricity and Natural Gas (RCI-2):** *Meet energy consumption reduction goals by increasing investment in electricity and natural gas demand-side management programs.* **LEAD: MEA (Maryland Energy Administration)**
- **Low Cost Loans for Energy Efficiency (RCI-3):** *Establish revolving low-interest loan fund(s) for small-scale residential and commercial energy efficiency projects.* **LEAD: MEA**
- **Improved Design, Construction, Appliances & Lighting in New and Existing State and Local Government Buildings, Facilities and Operations: Gov't Lead by Example (RCI-4):** *Adopt practices to obtain high performance and energy efficient buildings in state and local government-owned and leased buildings.* **LEAD: MDE**
- **More Stringent Appliance/ Equipment Efficiency Standards (RCI-7):** *Implement appliance efficiency standards to reduce the market cost of energy efficiency improvements.* **LEAD: MEA**
- **Energy Efficiency Resource Standard (RCI-10):** *Establish mandatory utility electricity and natural gas reduction targets and utility plans to achieve per capita energy savings of 15% by 2015.* **LEAD: MEA**
- **Promotion and Incentives for Energy Efficient Lighting (RCI-11):** *Leverage incentives and an aggressive marketing campaign to encourage Maryland residents to choose high efficiency lighting.* **LEAD: MEA**

Energy Supply (ES)

- **Promotion of Renewable Energy Sources (ES-1):** *Reduce regulatory and financial barriers to centralized and onsite generation and ensure consideration of renewable energy projects.* **LEAD: MEA**
- **Technology-focused Initiatives for Electricity Supply (ES-2):** *Support the development and adoption of biomass co-firing, energy storage, fuel cell, landfill gas, and clean energy supply.* **LEAD: MEA**
- **GHG Cap & Trade (ES-3):** *Support Maryland's active participation in RGGI and consider RGGI expansion in the absence of a national cap and trade program.* **LEAD: MDE**
- **Clean Distributed Generation (ES-5):** *Encourage investment in distributed energy and combined heat and power systems.* **LEAD: MEA**
- **Integrated Resource Planning (ES-6):** *Consider energy supply options prior to approving utility expansions of electricity generation or transmission.* **LEAD: Public Service Commission (PSC)**
- **Renewable Portfolio Standards (ES-7):** *Require electricity providers to obtain a minimum percentage of electricity sales from renewable energy sources.* **LEAD: PSC**
- **Efficiency Improvements and Repowering Existing Plants (ES-8):** *Identify emissions reductions from existing generating units through improving their operating efficiency and adding fuel changes.* **LEAD: MEA**
- *Generation Performance Standards (ES-10): Require load serving entities to meet a per-unit GHG emission rate below a specified standard.* **LEAD: MDE**

Agriculture, Forestry, and Waste (AFW)

- **Forest Management for Enhanced Carbon Sequestration (AFW-1):** *Promote sustainable forestry management practices in existing Maryland forests on public and private lands.* **LEAD: Department of Natural Resources (DNR)**
- **Managing Urban Trees & Forests for GHG Benefits (AFW-2):** *Maintain and improve the health and longevity of urban trees and increase urban tree canopy throughout the state.* **LEAD: DNR**
- **Afforestation, Reforestation & Restoration of Forests & Wetlands (AFW-3):** *Promote forest and wetland CO2 sequestration using a suite of strategies from green infrastructure planning to tax incentives.* **LEAD: DNR**
- **Protection & Conservation of Agricultural Land, Coastal Wetlands & Forested Lands (AFW-4):** *Map, designate, prioritize, and conserve existing forests, agricultural land, and wetlands.* **LEAD: Maryland Department of Agriculture (MDA)**
- **"Buy Local" Programs for Sustainable Agriculture, Wood, and Wood Products (AFW-5):** *Promote the sustainable production and consumption of locally produced agricultural and durable wood products.* **LEAD: MDA**
- **Expanded Use of Forest & Farm Feedstocks & By-Products for Energy Production (AFW-6):** *Promote the use of local biomass for generating electricity and thermal energy.* **LEAD: DNR**
- **In-State Liquid Biodiesel Production (AFW-7b):** *Promote sustainable in-state production and consumption of transportation biofuels and reduce overall transportation fuel consumption.* **LEAD: MEA**
- **Nutrient Trading with Carbon Benefits (AFW-8):** *Add carbon credits and enhanced nitrogen credits to the Upper Chesapeake Bay incipient nutrient trading program.* **LEAD: MDA**
- **Waste Management through Source Reduction & Advanced Recycling (AFW-9):** *Reduce Maryland's waste stream through programs that reduce waste, expand recycling, and enhance the re-use of products.* **LEAD: MDE**

Transportation and Land Use (TLU)

- **Integrated Planning for Land Use & Location Efficiency (TLU-2):** *Implement policies to reduce vehicle miles traveled as a means of reducing GHG emissions in the transportation sector.* ***LEAD: Maryland Department of Transportation (MDOT)***
- **Transit (TLU-3):** *Promote compact, transit-oriented development and other growth management objectives.* ***LEAD: MDOT***
- **Intercity Travel: Aviation, Rail, Bus and Freight (TLU-5):** *Enhance connectivity of non-auto transportation modes between cities through infrastructure and technnology investments.* ***LEAD: MDOT***
- **Pay as You Drive Insurance (TLU-6):** *Explore options for implementing and marketing insurance policies that tie the cost of premiums to miles or hours driven.* ***LEAD: Maryland Insurance Agency (MIA)***
- **Bike and Pedestrian Infrastructure (TLU-8):** *Develop infrastructure planning and design tools and encourage local governments to improve promote bicycle and pedestrian travel.* ***LEAD: MDOT***

- **Incentives, Pricing, and Resource Measures (TLU-9):** *Establish incentives and disincentives such as GHG-emission based road user fees to reduce transport-related GHG emissions.* ***LEAD: MDOT***
- **Transportation Technologies (TLU-10):** *Reduce GHG emissions from on- and off-road vehicles by implementing a range of strategies.* ***LEADS: MDE/MDOT***
- **Evaluate GHG Emissions Impacts of Major Projects (TLU-11):** *Evaluation of transportation and land use GHG emissions related to state and local major capital projects.* ***LEAD: MDOT***