



The Center for Climate Strategies

Helping States and the Nation Tackle Climate Change

Catalog of State Climate Actions: Agriculture, Forestry, and Waste Management

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

Example State Greenhouse Gas Pollution Reduction Policy Actions

Agriculture—Production of Energy and Materials

- Expanded Utilization of Biomass Feedstock for Electricity, Heat, or Steam Production
- In-state Liquid Biofuels Production
- Manure Digesters/Other Waste Energy Utilization
- Improving Energy Capture from Corn and Biomass Heat
- Expand Production/Use of Bio-based Materials and Chemicals
- Improved Commercialization of Biomass Conversion Technologies

Agriculture—Livestock

- Manure Management and Utilization
- Changes in Animal Feed
- Technology Improvements to Increase Water Conservation

Agriculture—Crop Production

- Soil Carbon Management
- Nutrient Management
- Technology Improvements to Increase Efficiency
- Water Management
- Drainage Management

Agriculture—Land Use Change

- Land Use Management that Promotes Permanent Cover
- Preserve Open Space/Agricultural Land

Agriculture—Farming Practices

- Increase On-Farm Energy Production and Efficiency
- Promotion of Farming Practices that Achieve GHG Benefits
- Programs to Support Local Farming/Buy Local
- Promotion of Urban Agriculture, Community Gardens, and Green Roofs

Forestry—Production of Energy and Materials

- Expanded Use of Forest Biomass Feedstocks for Electricity, Heat, and Steam Production
- In-state Liquid Biofuels Production
- Improved Energy Capture from Wood Waste Combustion
- Improved Commercialization of Biomass Conversion Technologies
- Expanded Use of New, Used, and Recycled Wood Products for Building Materials

Forestry—Biomass Protection and Management

- Forest Protection—Reduced Clearing and Conversion to Non-forest Cover
- Urban Forestry
- Afforestation and/or Restoration of Non-forested Lands
- Forest Management for Carbon Sequestration
- Mitigation of Forest Carbon Sequestration Loss and Emissions Due to Wildfire
- Mitigation of Forest Loss Due to Insects/Disease

Forestry—Wood Products and Waste

- Improved Mill Waste Recovery
- Improved Logging Residue Recovery
- Silviculture Improvements

Waste Management—Waste Management Strategies

- Expanded Use of Yard Waste Biomass Feedstocks for Electricity, Heat, and Steam Production
- In-State Liquid Biofuels Production
- Advanced Recycling and Composting
- Promotion of Bioreactor Technology (Advanced Municipal Solid Waste Management Practices)

- Source Reduction Strategies
- Resource Management Contracting
- Enhanced Management of Organic Waste
- Improved Commercialization of Biomass Conversion Technologies

Waste Management—Landfill Gas Strategies

- Flare Landfill Methane at non-NSPS (smaller) Sites
- Methane and Biogas Energy Programs
- Landfill Methane Energy Programs

Waste Management—Wastewater Management Activities

- Wastewater Treatment Plant Biosolids for Energy Production
- Energy Efficiency Improvements
- Lower Waste Processing Needs (lower water consumption, waste production)
- Install Digesters and Turbines or Engines
- Algae and Bio-Oils