

## Summary of Actions to Reduce Greenhouse Gas Emissions

Name of Policy or Measure	Objective and/or Activity Affected	GHG Affected	Type of Instrument	Status	Implementing Entity/Entities	Estimate of Mitigation Impact, by Gas (for Particular Year, in CO2 Equivalent)			
						2000	2005	2010	2020
<b>ENERGY</b>									
<b>Commercial and Residential</b>									
Energy Star in Commercial Market	Promotes the improvement of energy performance in commercial buildings	CO2	Voluntary	Implemented	EPA				
Commercial Building Integration	Promotes the improvement of energy performance in residential buildings beyond the labeling of products	CO2	Voluntary; Outreach	Implemented	EPA				
Residential Building Integration Energy Star for the Residential Market	Label to distinguish energy efficient products in the marketplace	CO2	Voluntary; Outreach	Implemented	EPA/DOE				
Building Equipment and Materials Community Energy Program						DOE			
Weatherization Assistance Program						DOE			
State Energy Program	Reverse effects of urban heat islands by encouraging use of mitigation strategies	CO2	Voluntary; Information; Research	Implemented	EPA [Mercado]	Numbers reported under Forestry			
Heat Island Reduction Initiative	Eliminate barriers to capturing potential energy savings from new buildings	CO2	Voluntary	Implemented	EPA/DOE [Coyle]	Numbers included in Comm. Bldgs.			
Construction of Energy-Efficient Buildings [Roll EPA portion into Energy Star??]		CO2		?	DOE/EPA/HUD				
PATH									
<b>Industrial</b>						DOE			
Vision Industries	Enable industrial companies to evaluate and cost-effectively reduce energy use	CO2	Voluntary	Implemented	EPA				
Energy Star for Industry (formerly Climate Wise)						DOE			
Enabling Technologies						DOE			
Financial Assistance						DOE			
Industrial Technology Assistance						DOE			
<b>Energy Supply</b>									
BioPower						DOE			
Distributed Energy Resources						DOE			
Geothermal Energy						DOE			
High Temperature Superconductivity						DOE			
Hydrogen						DOE			

Hydropower							DOE
International Programs							DOE
Solar Technologies							DOE
Wind Energy							DOE
Clean Energy Initiative	Remove market barriers to increased penetration of cleaner, more efficient energy supply	CO2	Voluntary; Education; Technical Assistance	Implemented	EPA		
Energy Star Transformers	Encourage investment in high-efficiency transformers	CO2	Voluntary; Education	Implemented	EPA [Schmittz/Ryan]		
<b>TRANSPORTATION</b>							
Biofuels							DOE
Vehicle Systems R&D							DOE
Hybrid Systems R&D							DOE
Vehicle Power Electronics & Electric Machines							DOE
Vehicle High Power Energy Storage							DOE
Transportation Fuel Cell Power Systems							DOE
Electric Vehicle Battery R&D							DOE
Engine & Emissions Control							DOE
Fuels Utilization							DOE
Transportation Materials							DOE
Transportation Technology Assistance							DOE
Commuter Choice Partnership Programs	Reduce single-occupant vehicle commuting by providing incentives and alternative modes, timing and locations for work	CO2	Voluntary/Negotiated Agreements; Tax Incentives; Information, Education, Outreach	Implemented	EPA/DOT/DOE		
Smart Growth and Brownfields Policies Programs	Reduce motorized trips and trip distance by promoting more efficient location choice	CO2	Technical Assistance; Outreach	Implemented	EPA		
Transit	Funding mechanisms for alternative modes to personal motorized vehicles	CO2	Funding Mechanisms	Implemented	DOT/EPA		
Clean Air Transportation Communities Program	Fund transportation projects and require vehicle repairs that reduce air pollution and traffic congestion	CO2	Voluntary; Outreach	Implemented	DOT/EPA		
Ground Freight Transportation Initiative		CO2					
Variable Priced Vehicle Insurance Initiative		CO2					
Fuel Economy/PNGV//21st Century Truck	Promote the development of cleaner, more efficient passenger vehicles	CO2	Research; Information	Implemented	EPA/DOC/DOD/ DOT/NASA/ANS F/DOE		
<b>INDUSTRY (NON-ENERGY)</b>							

Program		Initiative	Gas	GHG Protocol Category	Approach	Implementation Status	Agency
Natural Gas Star Program	Reduce methane emissions from U.S. natural gas systems through the widespread adoption of industry best management practices		CH4	Voluntary/Negotiated Agreement	Implemented	EPA	
Coalbed Methane Outreach Program	Reduce methane emissions from U.S. coal mining operations through cost-effective means	CH4	Information; Education; Outreach	Implemented	EPA		
Narrow Use of Chemicals with high GWPs (SNAP)	Facilitate smooth transition away from ozone depleting chemicals in industrial and consumer sectors	High GWP	Regulatory; Information	Implemented	EPA		
Refrigerant Venting Prohibition & Recycling	Extend recycling requirements for ozone-depleting refrigerants to HFC refrigerants	HFCs	Regulatory	Planned (proposed rule)	EPA [U. Banks]		
Environmental Stewardship Initiative	Limit emissions of HFCs PFCs and SF6 in industrial applications	High GWP	Voluntary/Negotiated Agreement	Implemented	EPA		
Partnership with Manufacturers of HCFC-22	Encourage reduction of HFC-23 emissions through cost-effective practices or technologies	HFC-23	Voluntary/Negotiated Agreement	Implemented	EPA		
Partnership with Aluminum Producers	Encourage reduction of CFC4 and C2F6 where technically feasible and cost-effective	PFCs	Voluntary/Negotiated Agreement	Implemented	EPA		
AGRICULTURE	Promote practices to reduce ghg emissions at U.S. farms	CH4	Information; Education; Outreach	Implemented	EPA/USDA	not reported	not reported
Agricultural Outreach Programs	Efforts to reduce nitrous oxide emissions through improving efficiency of fertilizer nitrogen	N2O	Technical Assistance; Information	Implemented	EPA/USDA		
Improve Efficiency of Fertilizer Nitrogen Use							
AgSTAR Program							
Ruminant Livestock Efficiency Program							
FORESTRY	Reverse effects of urban heat islands by encouraging use of mitigation strategies	CO2	Voluntary; Information; Research	Implemented	EPA		
Heat Island Reduction Initiative							
Reduce Depletion of Nonindustrial Private Forests	Reduce potential of over harvesting on private lands	CO2	Information; Outreach	Terminated	USDA	not reported	not reported
Accelerate Tree Planting in Nonindustrial Private Forests	Sequester carbon in trees, forest soils, forest litter and understudy plants	CO2	Technical/Financial Assistance	Implemented	USDA		
WASTE MANAGEMENT							
Stringent Landfill Rules	Reduce methane/landfill gas emissions from U.S. landfills	CH4	Regulatory	Implemented	EPA		
Landfill Methane Outreach Program	Reduce methane emissions from U.S. landfills through cost-effective means	CH4	Voluntary/Negotiated Agreements; Information; Education; Outreach	Implemented	EPA		

Climate and Waste Program	Encourage recycling, source reduction and other progressive integrated waste management activities for the purpose of reducing ghg emissions	All	Voluntary/Negotiated Agreements; Information; Technical Assistance; Research	Implemented	EPA
<b>CROSS-CUTTING</b>					
Federal Energy Management Program				DOE	
Departmental Energy Management Program				DOE	
State and Local Outreach	Assist key state and local decision-makers in maintaining and improving economic and environmental assets given climate change	All	Information; Education; Research	Implemented	EPA
Clean Air Partnership Fund	Promote multi-pollutant strategy that comprehensively aims to control conventional pollutants as well as ghgs	All	Technical Assistance	Planned	EPA
<b>TOTAL</b>				not reported	not reported
				not reported	not reported