

Table 1. Summary of Greenhouse Gas Emission Results, Reference, S.139, and SA.2028 Cases, 2010 and 2025 (million metric tons of carbon equivalent)

	2001	2010			2025		
		Refer- ence	S.139	SA.2028	Refer- ence	S.139	SA.2028
Greenhouse Gas Emissions							
Energy-Related Carbon Dioxide	1,559	1,802	1,710	1,746	2,234	1,482	1,777
Non-Energy Carbon Dioxide	36	40	40	40	46	46	46
Methane	175	178	115	120	172	120	113
Nitrous Oxide	119	127	121	121	143	137	137
High-GWP Gases (HFCs, PFCs, and SF6)	39	84	50	52	209	106	107
Total	1,928	2,230	2,036	2,079	2,806	1,891	2,181
S.139 Compliance Summary							
Covered Energy-Related Carbon Dioxide	1,379	1,605	1,513	1,549	2,014	1,257	1,556
Other Covered GHG Emissions	75	124	70	72	251	128	129
Total Covered Emissions	1,454	1,729	1,583	1,621	2,265	1,385	1,685
Offset Reductions: Purchased							
Noncovered Greenhouse Gases Increases in Biological Carbon Sequestration			49	44		39	46
International Offsets			113	104		87	112
Total Offset Reductions			235	199		126	220
Covered Emissions, less Offsets	1,454	1,729	1,349	1,423	2,265	1,259	1,465
Emission Allowances Issued			1,465	1,465		1,258	1,465
Net Allowance Bank Change (+deposit, - withdrawal)			117	42		-1	0
Allowance Price							
(2001 dollars per metric ton carbon equivalent)			79	55		221	167
(2001 dollars per metric ton carbon dioxide equivalent)			22	15		60	46
Offset Trading Price							
(2001 dollars per metric ton carbon equivalent)			71	55		52	106
(2001 dollars per metric ton carbon dioxide equivalent)			19	15		14	29

GWP=Global warming potential.

Source: Office of Integrated Analysis and Forecasting, National Energy Modeling System runs MLBASE.D050303A, MLBILL.D050503A, and SA2028.D051104A. Data on greenhouse gas emissions for 2001 from Energy Information Administration, *Emissions of Greenhouse Gases in the United States 2001*. Forecasts of reference case greenhouse gas emissions other than carbon dioxide from reference materials provided by the U.S. Environmental Protection Agency (EPA). The EPA data included a business-as-usual case, developed in preparing the *Climate Change Action Plan 2001* and extrapolated to 2025.