

Appendix - Table A1
Summary of Benefit-Cost Analyses

Agency / Year ^a	Rule ID Number	Subject ^b	Net Benefits including CO ₂ (Billions 2011\$) ^c	Net Benefits not including CO ₂ (Billions 2011\$)
<i>Final Rules</i>				
DOE / 2013	1904-AC04	ECS ^d for Distribution Transformers	18	13
EPA / 2013	2060-AR13	NESHAP for Boilers and Process Heaters	47	47
EPA / 2012	2060-AQ54	GHG Emissions Standards for Light-Duty Vehicles	460	410
DOT / 2012	2127-AK79	CAFE Standards for Light-Duty Vehicles	490	440
EPA / 2012	2060-AN72	Standards of Performance for Petroleum Refineries	0.55	0.50
DOE / 2012	1904-AB90	ECS for Residential Clothes Washers	35	32
DOE / 2012	1904-AC64	ECS for Residential Dishwashers	0.56	0.47
EPA / 2012	2060-AP52; 2060-AR31	NESHAP for Steam Generating Units	57	57
DOE / 2011	1904-AB50	ECS for Fluorescent Lamp Ballasts	19	18
DOE / 2011	1904-AB79	ECS for Residential Refrigeration Products	43	34
EPA, DOT / 2011	2060-AP61; 2127-AK74	GHG and Fuel Efficiency Standards for Medium- and Heavy-Duty Vehicles	51	45
EPA / 2011	2060-AP50	Interstate Transport of Particulate Matter and Ozone	210	210
DOE / 2011	1904-AC06	Energy Efficiency Standards for Residential Furnaces, A/C, and Heat Pumps	20	17
		Standards for Standby/Off Mode for Residential Furnaces, A/C, and Heat Pumps	1.5	1.2
DOE / 2011	1904-AA89	ECS for Residential Clothes Dryers	3.7	3.2
		ECS for Residential A/C	1.9	1.5
EPA / 2011	2060-AO12	Standards of Performance and Emission Guidelines for Waste Incinerators	0.32	0.32
EPA / 2011	2060-AQ25	NESHAP for Major Sources	38	38
EPA / 2011	2060-AM44	NESHAP for Area Sources*	-0.13	-0.13
EPA, DOT / 2010	2127-AK50; 2060-AP58	CAFE Standards for Light-Duty Vehicles	140	120
		GHG Emissions Standards for Light-Duty Vehicles	200	180
DOE / 2010	1904-AA90	ECS for Residential Water Heaters	12	9.1
		ECS for Direct Heating Equipment	1.6	1.4
		ECS for Pool Heaters	0.12	0.11
DOE / 2010	1904-AB70	ECS for Small Electric Motors	15	13
DOE / 2010	1904-AB93	ECS for Commercial Clothes Washers	1.0	0.93
EPA / 2010	2060-AO15, 2060-AO42	NESHAP and NSPS for Portland Cement Plants	13	13

EPA / 2010	2060–AO38	Control of Emissions from New Marine Compression-Ignition Engines	85	85
DOT / 2010	2120–AI92	ADS-B Out Performance Requirements to Support Air Traffic Control Service	0.41	0.28
DOE / 2009	1904–AB58	ECS for Class A Beverage Vending Machines	0.66	0.49
		ECS for Class B Beverage Vending Machines	0.036	0.011
DOE / 2009	1904–AA92	ECS for General Service Fluorescent Lamps	51	39
		ECS for Incandescent Reflector Lamps	16	13
DOE / 2009	1904–AB49	ECS for Conventional Cooking Products	0.91	0.78
DOE / 2009	1904–AB59	ECS for Commercial Refrigeration Products	4.7	4.2
DOE / 2009	1904–AB74	ECS for Certain Consumer Products and Commercial and Industrial Equipment	130	110
DOE / 2008	1904–AB44	Packaged Terminal A/C and Heat Pump ECS	0.068	0.058
<i>Proposed Rules with no Final Rules in this data set</i>				
DOE / 2013	1904–AC00	ECS for Metal Halide Lamp Fixtures	4.0	2.5
EPA / 2013	2040–AF14	Effluent Limitations Standards for new Steam Electric Power Generators*	-0.79	-0.89
		Effluent Limitations Standards for existing Steam Electric Power Generators*	-0.27	-0.30
		ECS for Class B,C,D,E External Power Supplies	2.5	1.6
		ECS for Class X External Power Supplies	0.41	0.34
		ECS for Class H External Power Supplies	0.011	0.010
		ECS for Class 1 Battery Chargers	0.76	0.63
		ECS for Class 2,3,4 Battery Chargers	1.6	1.3
		ECS for Class 5,6 Battery Chargers	5.4	4.8
		ECS for Class 7 Battery Chargers	0.13	0.12
		ECS for Class 8 Battery Chargers	2.8	2.8
DOE / 2012	1904–AB57	ECS for Class 10 Battery Chargers	1.9	1.6
DOE / 2012	1904–AC07	ECS for Microwave Ovens	4.4	3.7
EPA / 2011	2060–AR15; 2050–AG44	Solid Waste Incinerators: Reconsideration and Proposed Amendments	0.31	0.31
EPA / 2011	2060–AN99	NESHAP for Mercury Cell Chlor-Alkali Plants	0.021	0.014
EPA / 2010	2060–AP90	Standards of Performance and Emission Guidelines for Sewage Sludge Incinerators	0.13	0.13

* These rules are not shown in the figures because they have negative net benefits with and without valuing CO₂.

^a Year of publication in the *Federal Register*.

^b For rules that contained a single central cost-benefit analysis, we report the subject of the rule. Otherwise, we report the subject of the relevant subpart.

^c All estimates are rounded to two significant digits, and use a 3% discount rate.

^d ECS: Energy Conservation Standards; NESHAP: National Emission Standards for Hazardous Air Pollutants; CAFE: Corporate Average Fuel Economy; and NSPS: New Source Performance Standards.