

Savings Estimates for American Clean Energy Leadership Act of 2009

ACEEE's assessment of the potential energy, carbon, and economic savings
18-Jun-09 [Revised 11-November-09]

Annual Energy Savings Estimates			2020									
Title	Subtitle	Section	Electricity (TWh)	Avoided Peak Demand (MW)	Direct Natural Gas (BCF) (1)	Oil Savings (Million barrels per day)	Primary Energy Savings (Quads)	Carbon Dioxide (MMT)	Cumulative Federal Investments (billion 2007 \$)	Annualized Consumer Costs (billion 2007 \$)	Gross Annual Consumer Savings (billion 2007\$)	Net Annual Consumer Savings (Billion 2007\$)
Title I - Clean Energy Technology Deployment	Subtitle C - Federal Renewable Electricity Standard	Sec. 132 Federal renewable electricity standard	negligible	savings beyond baseline								
		Sec. 201 Industrial EE Revolving Loan Program	4.52	1,219	40.66	0.0021	0.09	4.84	0.75	0.23	0.87	0.64
Title II - Enhanced Energy Efficiency	Subtitle A - Manufacturing Efficiency	Sec. 204 Future of Industry Program	savings credited under EISA									
		Sec. 204c Industrial Research and Assessment Centers	7.1	1,924	40.1	0.0021	0.12	6.37	0.42	0.35	1.15	0.81
		Sec. 206 Innovation and Industry Grants	5.5	1,483	16.9	0.0009	0.08	4.18	0.09	0.12	0.65	0.52
	Subtitle B - Improved Efficiency in Appliances and Equipment	Sec. 222 Reforms to Energy Star	10.3	2,775	62.6	0	0.17	9.44	0.00	0.87	1.56	0.69
		Sec. 224 Portable light fixtures	3.9	1,041	40.2	0	0.08	4.42	0.00	0.05	0.78	0.74
		Sec. 227 Commercial furnace standards	N/A	N/A	21.3	0	0.02	1.12	0.00	0.01	0.26	0.24
	Part I - Building Codes	Sec. 228 Motor efficiency rebate program	8.8	2,370	N/A	N/A	0.09	5.26	0.35	0.08	0.69	0.61
		Sec. 241 Building Codes	30.8	8,317	84.6	0	0.41	22.9	0.90	2.12	3.43	1.31
		Sec. 242 Multifamily and Manuf. Housing	2.8	746	65.8	0.0001	0.09	5.1	4.20	0.32	1.01	0.68
		Sec. 243 Building Training and Assessment Centers	0.4	104	0.7	0.00004	0.005	0.3	0.40	0.01	0.04	0.02
Part II - Weatherization for low-income persons	Sec. 251 Weatherization assistance for low-income persons	2.7	719	30.7	0.0016	0.06	3.2	6.80	0.21	0.60	0.39	
Part IV - State Energy Efficiency Grants Programs	Sec. 262 State Energy Efficiency Retrofit Programs	49.8	13,452	62.5	0.0033	0.60	33.2	1.25	0.74	4.70	3.97	
Part VI - Energy Efficiency Information on Homes and Buildings	Sec. 281 Building energy performance labeling program	13.5	3,637	31.9	0.0017	0.18	0.0	0.67	0.55	1.46	0.91	
Total			140	37,788	498	0.012	2.0	100	\$16	\$6	\$17	\$12

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Annual Energy Savings Estimates			2030									
Title	Subtitle	Section	Electricity (TWh)	Avoided Peak Demand (MW)	Direct Natural Gas (BCF) (1)	Oil Savings (Million barrels per day)	Primary Energy Savings (Quads)	Carbon Dioxide (MMT)	Cumulative Federal Investments (billion 2007 \$)	Annualized Consumer Costs (billion 2007 \$)	Gross Annual Consumer Savings (Billion 2007\$) (3)	Net Annual Consumer Savings (Billion 2007\$) (4)
Title I - Clean Energy Technology Deployment	Subtitle C - Federal Renewable Electricity Standard	Sec. 132 Federal renewable electricity standard	negligible	savings beyond baseline								
		Sec. 201 Industrial EE Revolving Loan Program	-	0	-	0.000	-	0.0	0.00	0.00	\$ -	0
Title II - Enhanced Energy Efficiency	Subtitle A - Manufacturing Efficiency	Sec. 204 Future of Industry Program	savings credited under EISA									
		Sec. 204c Industrial Research and Assessment Centers	14.3	3,868	82	0.004	0.24	12.8	0.82	0.39	\$ 2.36	\$ 1.97
		Sec. 206 Innovation and Industry Grants	5.5	1,483	17	0.001	0.08	4.1	0.19	0.37	\$ 0.77	\$ 0.40
	Subtitle B - Improved Efficiency in Appliances and Equipment	Sec. 222 Reforms to Energy Star	17.3	4,661	94	0	0.19	10.2	0.00	0.87	\$ 1.46	\$ 0.59
		Sec. 224 Portable light fixtures	3.9	1,041	39	0	0.08	4.3	0.00	0.12	\$ 0.85	\$ 0.72
		Sec. 227 Commercial furnace standards	N/A	N/A	160	0	0.16	8.4	0.00	1.38	\$ 2.14	\$ 0.75
	Part I - Building Codes	Sec. 228 Motor efficiency rebate program	8.8	2,370	N/A	N/A	0.09	5.2	0.35	0.05	\$ 0.74	\$ 0.70
		Sec. 241 Building Codes	83.9	22,654	182	0	1.08	59.2	1.90	5.51	\$ 9.54	\$ 4.03
		Sec. 242 Multifamily and Manuf. Housing	6.1	1,635	145	0.000	0.21	11.2	9.20	0.42	\$ 2.46	\$ 2.03
		Sec. 243 Building Training and Assessment Centers	0.5	131	1	0.00004	0.01	0.3	0.79	0.02	\$ 0.05	\$ 0.03
Part II - Weatherization for low-income persons	Sec. 251 Weatherization assistance for low-income persons	2.5	674	27	0.001	0.06	2.9	6.80	0.00	\$ 0.60	\$ 0.60	
Part IV - State Energy Efficiency Grants Programs	Sec. 262 State Energy Efficiency Retrofit Programs	95.9	25,881	109	0.005	1.15	62.5	1.25	0.78	\$ 9.66	\$ 8.88	
Part VI - Energy Efficiency Information on Homes and Buildings	Sec. 281 Building energy performance labeling program	26.1	7,039	66	0.003	0.35	18.9	1.17	0.44	\$ 3.15	\$ 2.70	
Total			265	71,437	921	0.01	3.7	200	\$22	\$10	\$34	\$23

Notes:

1. Direct gas represents the natural gas saved directly by the measures
2. Indirect gas is the gas avoided in electric power generation. Indirect gas and electric carbon emissions reductions are based on national average fuel mix and heat rate as projected in AEO 2009.
3. Gross consumer savings are preliminary estimates assuming AEO 2009 projected energy prices.
4. Where programs require substantial spending, we use funding authorizations, or in absence of a specific authorization, assume continuation of spending through 2030.

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