

**Savings Estimates for American Clean Energy Leadership Act of 2009 Discussion Draft**

ACEEE's preliminary assessment of the potential energy, carbon, and economic savings

18-Jun-09 [Revised 23-June-09]

Annual Energy Savings Estimates			2020													
Title	Subtitle	Section	Electricity (TWh)	Avoided Peak Demand (MW)	Direct Natural Gas (BCF) (1)	Indirect Natural Gas (BCF) (2)	Oil Savings (Million barrels per day)	Primary Energy Savings (Quads)	Carbon Dioxide (MMT)	Carbon (MMT)	Cumulative Federal Investments (billion 2007 \$)	Cumulative State/Utility Investments (billion 2007 \$)	Cumulative Consumer Investments (billion 2007 \$)	Annualized Consumer Costs (billion 2007 \$)	Gross Annual Consumer Savings (billion 2007\$)	Net Annual Consumer Savings (Billion 2007\$)
Title II - Enhanced Energy Efficiency	Subtitle A - Manufacturing Efficiency	Sec. 201 Industrial EE Revolving Loan Program	4.52	1,219	45.16	22.87	0.017	0.12	6	1.56	1.50	0	3.00	0.28	1.77	1.49
		Sec. 204 Future of Industry Program	savings already credited under EISA													
		Sec. 204c Industrial Research and Assessment Centers	7.1	1,924	44.5	36.10	0.017	0.15	8	2.07	0.42	0	2.74	0.35	2.00	1.65
	Subtitle B - Improved Efficiency in Appliances and Equipment	Sec. 206 Innovation and Industry Grants	3.6	979	10.1	18.37	0.004	0.06	3	0.87	0.14	0	0.70	0.07	0.64	0.58
		Sec. 222 Reforms to Energy Star	10.4	2,816	63.8	52.83	0	0.17	11	3.02	0.00	0	7.81	0.99	1.56	0.58
		Sec. 224 Portable light fixtures	3.9	1,041	40.2	19.53	0	0.08	5	1.36	0.00	0	0.21	0.05	0.73	0.68
	Part I - Building Codes	Sec. 227 Commercial furnace standards	N/A	N/A	21.3	N/A	0	0.02	1	0.31	0.00	0	0.05	0.01	0.19	0.18
		Sec. 228 Motor efficiency rebate program	8.8	2,370	N/A	N/A	N/A	0.09	6	1.75	0.35	0	0.94	0.08	0.83	0.75
		Sec. 241 Building Codes	21.0	5,664	149.3	106	0	0.37	23	6.4	2.56	0	32.49	2.50	3.33	0.84
	Part II - Weatherization for low-income	Sec. 242 Multifamily and Manuf. Housing	6.8	1,842	61.2	35	0.023	0.18	8	2.3	4.20	0	4.20	0.53	2.46	1.93
		Sec. 243 Building Training and Assessment Centers	0.4	104	0.8	2	0.0003	0.005	0.3	0.1	0.40	0	0.09	0.01	0.04	0.03
		Sec. 251 Weatherization assistance for low-income persons	5.2	1,415	49.3	27	0.018	0.14	6	1.8	6.80	0	0.00	0.00	1.96	1.96
Part IV - State Energy Efficiency Grants Programs	53.6	14,477	75.3	272	0.028	0.71	43	11.8	3.30	0	30.02	3.79	7.29	3.49		
Part VI - Energy Efficiency Information on Homes and Buildings	13.2	3,572	34.5	67	0.013	0.20	12	3.3	0.67	0	5.57	1.27	2.27	1.00		
<b>Total</b>			<b>139</b>	<b>37,422</b>	<b>596</b>	<b>658</b>	<b>0.12</b>	<b>2.3</b>	<b>134</b>	<b>37</b>	<b>\$20</b>	<b>\$0</b>	<b>\$88</b>	<b>\$10</b>	<b>\$25</b>	<b>\$15</b>

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Annual Energy Savings Estimates			2030													
Title	Subtitle	Section	Electricity (TWh)	Avoided Peak Demand (MW)	Direct Natural Gas (BCF) (1)	Indirect Natural Gas (BCF) (2)	Oil Savings (Million barrels per day)	Primary Energy Savings (Quads)	Carbon Dioxide (MMT)	Carbon (MMT)	Cumulative Federal Investments (billion 2007 \$)	Cumulative State/Utility Investments (billion 2007 \$)	Cumulative Consumer Investments (billion 2007 \$)	Annualized Consumer Costs (billion 2007 \$)	Gross Annual Consumer Savings (Billion 2007\$) (3)	Net Annual Consumer Savings (Billion 2007\$) (4)
Title II - Enhanced Energy Efficiency	Subtitle A - Manufacturing Efficiency	Sec. 201 Industrial EE Revolving Loan Program	-	0	-	0	0.000	-	0	0.0	0.00	0	0.00	0.00	\$ -	\$ 0
		Sec. 204 Future of Industry Program	savings already credited under EISA													
		Sec. 204c Industrial Research and Assessment Centers	14.3	3,868	90	70	0.026	0.29	15	4.2	0.82	0	5.52	0.39	\$ 3.61	\$ 3.22
	Subtitle B - Improved Efficiency in Appliances and Equipment	Sec. 206 Innovation and Industry Grants	3.6	979	10	18	0.007	0.06	3	0.9	0.29	0	1.84	0.15	\$ 0.80	\$ 0.65
		Sec. 222 Reforms to Energy Star	17.5	4,722	95	85	0	0.19	13	3.5	0.00	0	12.55	0.71	\$ 1.65	\$ 0.94
		Sec. 224 Portable light fixtures	3.9	1,041	39	19	0	0.08	5	1.3	0.00	0	0.53	0.12	\$ 0.72	\$ 0.59
	Part I - Building Codes	Sec. 227 Commercial furnace standards	N/A	N/A	160	N/A	0	0.16	9	2.4	0.00	0	6.08	1.38	\$ 1.46	\$ 0.75
		Sec. 228 Motor efficiency rebate program	8.8	2,370	N/A	43	N/A	0.09	6	1.7	0.35	0	0.94	0.08	\$ 0.83	\$ 0.75
		Sec. 241 Building Codes	70.2	18,947	376	343	0	1.13	72	19.5	6.25	0	75.66	5.82	\$ 10.03	\$ 4.21
	Part II - Weatherization for low-income	Sec. 242 Multifamily and Manuf. Housing	13.5	3,635	116	66	0.025	0.31	16	4.4	9.20	0	9.20	0.70	\$ 3.68	\$ 2.98
		Sec. 243 Building Training and Assessment Centers	0.5	131	1	2	0.001	0.01	0	0.1	0.79	0	0.19	0.01	\$ 0.05	\$ 0.04
		Sec. 251 Weatherization assistance for low-income persons	3.6	963	32	17	0.007	0.08	4	1.2	6.80	0	0.00	0.00	\$ 0.99	\$ 0.99
Part IV - State Energy Efficiency Grants Programs	91.8	24,786	115	449	0.168	1.42	73	20.0	3.30	0	34.83	2.94	\$ 18.95	\$ 16.00		
Part VI - Energy Efficiency Information on Homes and Buildings	25.6	6,925	67	130	0.049	0.44	22	6.1	1.17	0	10.93	0.63	\$ 5.71	\$ 5.07		
<b>Total</b>			<b>253</b>	<b>68,368</b>	<b>1,101</b>	<b>1,242</b>	<b>0.3</b>	<b>4.3</b>	<b>239</b>	<b>65</b>	<b>\$29</b>	<b>\$0</b>	<b>\$158</b>	<b>\$13</b>	<b>\$48</b>	<b>\$36</b>

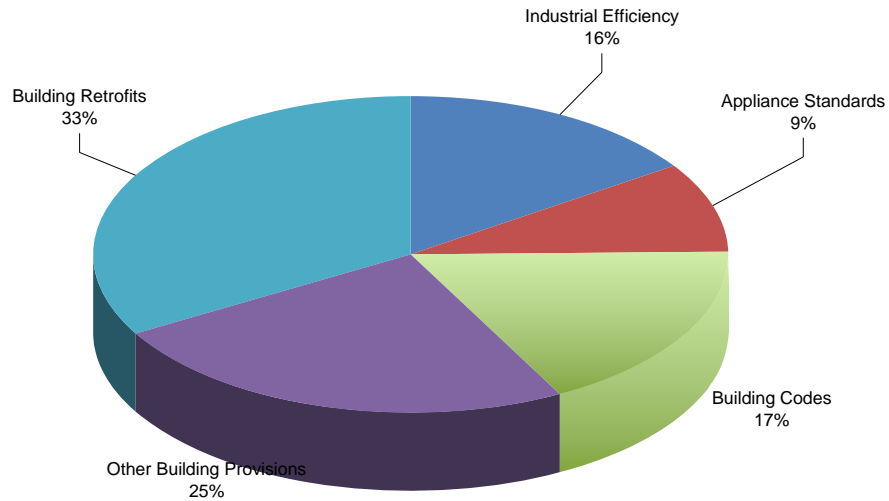
Notes:

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.

For more information, contact:  
Steven Nadel, 202-507-4011 snadel@aceee.org  
Rachel Gold, 202-507-4018, rgold@aceee.org

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**Quads saved from ACELA in 2020**



**Quads saved from ACELA in 2030**

