

Estimate of Savings from Energy-Efficiency Sections of Senate Energy Bill

Return to ACEEE

Provision	Savings (quads, 2002-2020)	Notes
Reauthorization of programs	0.0	While authorizations are useful, savings will be determined by appropriations
Efficient schools	0.8	Estimate program leads to 20% savings in 10% of new schools
Low income community pilot	0.0	existing programs resulting in no net savings.
Federal facilities	0.1	Estimate changes will reduce federal energy use approximately 5%.
Volun. industrial commitments	6.6	Estimate 10% facilities participate, averaging 1.5% savings per year for 10 years
Coalitions for basic manuf.	0.0	dependent on additional appropriations
Appliance standards		
SEER 13 res. a/c standard	0.8	For increment beyond SEER 12
3 products w/ stds. in leg.	2.8	
New rulemakings	9.8	For ceiling fans, "vampires", commercial refrigerators, vending machines & unit heaters
Energy Star program	0.0	additional money for the program.
Labeling of appliances	2.0	Savings from improving current "Energy Guide" label
A/C maintenance education	0.2	Estimate 10% air conditioning energy savings in 10% of homes
Interconnection	0.8	to 2,500 MW of new CHP systems by 2020.
Generation efficiency/diversity	0.0	could modestly slow growth of the most efficient plants that are fired by gas.
Real time pricing	0.9	
Tax incentives		
New homes	0.9	Based on estimates made in recent ACEEE report adjusted to reflect differences between
Appliances	0.6	Senate bill & incentives recommended by ACEEE.
Comm'l bldgs	3.5	"
Fuel cells	1.6	"
Hybrid and fuel cell vehicles	1.7	"
Combined heat & power	4.8	"
Heat pump & gas water htrs	0.3	"
Residential a/c and HP	0.6	"
Real-time metering	0.9	Estimate will lead to RTP for ~5% of customers in 2010 and thereafter, with 3-5% avg. energy savings.
Existing homes	<u>0.2</u>	
Tax incentives subtotal	15.3	
CAFE	31.9	ACEEE analysis of savings from Hollings/Kerry proposal -- 35 mpg by 2013
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Total in Bill	71.9	

Notes: A *quad* is a quadrillion (10 to the 15th power) Btus. By way of reference, DOE's Energy Information Administration has projected that the United States will use approximately 2,150 quads over the 2002-2020 period.

Source: Analysis by the American Council for an Energy-Efficient Economy, Washington, DC, 2/14/02. This analysis updates ACEEE's previous Dec. 2001 analysis.

Preliminary Estimate of Savings from Energy-Efficiency Sections of Senate Energy Bill

	Savings (quadrillion Btu's, 2002-2020)			300 MW Powerplants Saved In ~2020	Cumulative Fuel Savings (Million Barrels of Oil Equivalent, 2002-2020)
	Total	Electric	Fuels		
Reauthorization of programs	0.0	0.0	0.0	0	0
Efficient schools	0.8	0.6	0.2	8	36
Low-income community pilot	0.0	0.0	0.0	0	0
Federal facilities	0.1	0.1	0.0	1	6
Volun. industrial commitments	6.6	2.0	4.6	26	857
Coalitions for basic manuf.	0.0	0.0	0.0	0	0
Appliance standards					
SEER 13 res. a/c standard	0.8	0.8	0.0	43	0
3 products w/ stds. in leg.	2.8	2.8	0.0	25	0
New rulemakings	9.8	8.9	0.9	118	168
Energy Star program	0.0	0.0	0.0	0	0
Labeling of appliances	2.0	1.8	0.2	23	36
A/C maintenance education	0.2	0.2	0.0	10	0
Interconnection	0.8 Saves peak & fuel			17	0
Generation efficiency/diversity	0.0	0.0	0.0	0	0
Real time pricing	0.9	0.9	0.0	37	0
Tax incentives					
New homes	0.9	0.5	0.4	7	74
Appliances	0.6	0.4	0.2	6	30
Comm'l bldgs	3.5	2.6	0.9	35	164
Fuel cells	1.6	1.3	0.3	17	60
Hybrid and fuel cell vehicles	1.7	0.0	1.7	0	323
Combined heat & power	4.8	3.9	1.0	51	181
Heat pump & gas water htrs	0.3	0.3	0.01	4	3
Residential a/c and HP	0.6	0.6	0.0	8	0
Real-time metering	0.9	0.9	0.0	37	0
Existing homes	<u>0.2</u>	<u>0.1</u>	<u>0.1</u>	<u>4</u>	<u>16</u>
Tax incentives subtotal	15.1	10.6	4.5	165	834
CAFE	31.9	0.0	31.9	0	5,952
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Total in Bill	71.9	28.7	42.4	477	7907

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