

Preliminary Estimate of Savings from Energy Efficiency Sections of Sen. Daschle's Energy Bill

Provision	Savings (quads, 2002-2020)	Notes:
Reauthorization of programs	0.0	While authorizations of R&D programs and additional funding for weatherization are important, energy 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	This program is not likely to result in new funding but rather to draw funding from existing programs resulting in no net savings.
Federal facilities	0.1	Estimate changes will reduce federal energy use approximately 5%.
Fuel economy of the federal vehicle fleet	0.1	Same as the House-passed bill.
Volun. industrial commitments	6.6	Estimate 10% facilities participate, averaging 1.5% savings per year for 10 years
Appliance standards		
SEER 13 res. a/c standard	0.8	For increment beyond SEER 12
3 products w/ stds. in leg.	2.8	For torchieres, dry-type transformers and exit signs. Savings est. from Kubo et al. 2001.
New rulemakings	9.8	For ceiling fans, "vampires", and commercial refrigerators, vending machines & unit heaters
Energy Star program	0.0	Energy Star is saving a lot, but savings attributable to this provision will be determined by appropriations.
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	0.3	Includes FERC authority for wholesale interconnection standards and for small systems of 500kW or less. CHP impacts are modest because only small systems are addressed, so provision contributes to only 1,000 MW of new CHP systems by 2020
Generation efficiency/diversity	0.0	State studies of opportunities will lead to modest efficiency improvements at existing plants but could modestly slow growth of the most-efficient plants which are fired by gas
Real time pricing	1.9	Provision encourages RTP but largely depends on state actions. We estimate that provision could lead to RTP for ~10% of customers in 2010 and thereafter with 3-5% average energy savings.
Subtotal	25.3	
<i>Reserved sections</i>		
CAFE	52.0	ACEEE analysis of savings from Sen. Hollings proposal -- 39 mpg by 2012
Subtotal	52.0	
<i>Missing provisions</i>		
System benefit fund or Efficiency performance std.	66.1	Savings are shown for a 2 mill system benefit fund as in the Jeffords bill; analysis of efficiency performance standard now underway
State consideration of SBF	0.9	A few new states will consider SBFs due to this provision. Savings shown are for adoption of a 1 mill SBF in one medium-sized state accounting for 2.5% of U.S. population.
Tax incentives	24.0	For new homes, appliances, comm'l buildings, fuel cells, vehicles, and CHP based on Bingaman and CLEAR bills
Interconnection	2.8	The inclusion of interconnection provisions similar to those introduced by Sen. Jeffords (S.933) or under consideration by Rep. Barton covering distribution level interconnection and supplemental and backup power would significantly increase energy savings from CHP. Provision would contribute 9,900 additional MW of CHP above provisions in Senate bill.
Replacement tire standards	3.3	Based on analysis by Duleep 1995.
Standards for traffic lights	0.2	Assumes standard at Energy Star level. Savings based on Kubo et al. 2001.
Subtotal	97.3	
TOTAL POSSIBLE	174.6	

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	Savings (quadrillion Btu's, 2002-2020)			300 MW Powerplants Saved In ~2020	Cumulative Fuel Savings (Mill. 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
Fuel economy of the federal vehicle fleet	0.1	0	0.1	0	19
Volun. industrial commitments	6.6	2.0	4.6	26	857
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	0.3	Saves peak & fuel		3	0
Generation efficiency/diversity	0.0	0.0	0.0	0	0
Real time pricing	1.9	1.9	0.0	74	0
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Subtotal	25.3	18.9	6.0	332	1123
<i>Reserved sections</i>					
CAFE	52.0	0.0	52.0	0	9703
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Subtotal	52.0	0.0	52.0	0	9,703
<i>Missing provisions</i>					
System benefit fund or Efficiency performance std.	66.1	66.1	0.0	878	0
State consideration of SBF	0.9	0.9	0.0	11	0
Tax incentives	24.0	6.4	17.6	85	3285
Interconnection	2.8	Saves peak & fuel		30	0
Replacement tire standards	3.3	0.0	3.3	0	616
Standards for traffic lights	0.2	0.2	0.0	1	0
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Subtotal	97.3	73.6	20.9	1006	3901
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TOTAL POSSIBLE	174.6	92.5	78.9	1,338	14,727

ACEEE 12/06/01