

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

Provision	Savings (quads, 2002-2020)	Notes
Appliance standards 6 products w/ stds. in leg. New rulemakings Standards subtotal	3.8 <u>5.1</u> 8.8	For torchieres, dry-type transformers, exit signs, traffic lights, unit heaters & cfls. For ceiling fans, "vampires", commercial refrigerators, vending machines and furnace fans.
High perform. public bldgs	0.1	Program could lead to 20% savings but due to limited funding reaches only 10% of local government buildings.
Federal facilities	0.1	Estimate changes will reduce federal energy use approximately 5%.
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
Real time pricing	0.7	Provision encourages RTP but largely depends on state actions. We estimate that provision could lead to RTP for ~5% of customers in 2010 and thereafter with 3% average energy savings.
Appliance rebates	0.0	Due to limited funding, savings likely to be less than 0.1 quads
Public housing	0.2	Based on 1/2 of maximum savings as estimated by proponents
Fleet adv. vehicle purchases	0.0	Limited purchases affected, so savings less than 0.1 quads
CAFÉ	-2.3	Lost savings for continuing dual-fuel credit which is due to expire
1 Million B/D oil savings	29.0	Based on Landriew amendment on floor
Tax incentives New homes Appliances Comm'l bldgs Fuel cells Combined heat & power Heat pump & gas water htrs Residential a/c and HP Hybrid and fuel cell vehicles Gas furnaces Real-time metering Existing homes Tax incentives subtotal	0.9 0.6 3.5 1.8 4.4 0.1 0.6 1.6 0.1 0.7 0.3 14.5	Based on estimates made in recent ACEEE report adjusted to reflect differences between Senate bill and incentives recommended by ACEEE. " " " " " " " " " Sources as above. Assumes no compensating reductions in the fuel economy of remaining vehicles. Based on ACEEE estimates of penetration rates for high-AFUE's. Estimate will lead to RTP for ~5% of customers in 2010 and thereafter with 3% avg energy savings. Savings based on experience with 1978-1985 tax credits which was similar to this provision.D74
Total in Bill	53.3	
Recommended Improvement	's	
Improve CHP tax credit	5.3	Provide more incentive for industrial systems by restoring depreciation to current levels; allow small systems to receive credit, containing costs by eliminating credit for very large systems
Improve furnace & water htg tax credit	0.7	Cut furnace credit in half, add \$50 credit for high-efficiency furnace fans and double water heating credits.
Volun. industrial commitments	1.3	Estimate 3% facilities participate, averaging 1% savings per year for 10 years
Add replacement tire stds	4.6	Based on analysis by Deleep 1995.
System benefit fund or Efficiency performance std.	35.1	ACEEE analysis of savings for a 2 mill system benefit fund, with half going to all states and half matching state funding.
Total missing	47.0	
TOTAL POSSIBLE	100.3	

Notes: A *quad* is a quadrillion (10 to 15th power) Btu's. By way of reference, according to DOE's Energy Information Administration, the U.S. is projected to use approximately 1975 quads over the 2004-2020 period.

Source: Analysis by American Council for an Energy-Efficient Economy, Washington, DC, 8/6/03. This analysis updates ACEEE's previous analyses on this subject.