

## Assessment of Selected Energy Efficiency Policies

**Table 1. Calculated Changes in Energy Consumption for Policies Based on Assumed Impacts Provided to EIA as Part of the Study Request**  
 (Quadrillion Btu of Primary Energy)

Policy Assumption	2010	2015	2020	2025	Cumulative 2006-2025
<b>Policies Included in Case 1</b>					
Five-State EEPS, Electricity	-0.08	-0.27	-0.45	-0.63	-5.73
Five-State EEPS, Natural Gas	-0.03	-0.10	-0.16	-0.23	-2.10
Industrial Voluntary Agreements	-0.10	-0.26	-0.43	-0.50	-5.46
<b>Total of Individual Policy Impacts</b>	<b>-0.21</b>	<b>-0.62</b>	<b>-1.04</b>	<b>-1.36</b>	<b>-13.29</b>
<b>Policies Included in Case 2</b>					
National EEPS, Electricity	-0.53	-1.81	-3.04	-4.27	-38.94
National EEPS, Natural Gas	-0.19	-0.65	-1.12	-1.59	-14.28
Industrial Voluntary Agreements	-0.10	-0.26	-0.43	-0.50	-5.46
Electricity Voluntary Agreements	-0.36	-0.84	-0.94	-0.91	-13.40
Natural Gas Voluntary Agreements	-0.01	-0.02	-0.01	-0.02	-0.29
<b>Total of Individual Policy Impacts</b>	<b>-1.18</b>	<b>-3.58</b>	<b>-5.55</b>	<b>-7.28</b>	<b>-72.38</b>

**Table 2. Summary of Policies and Modeling Treatment**

Policy	Description	Multi-Policy Case	Modeling Treatment
<b>Residential Appliance Standards</b>			
Furnaces/Furnace Fans .....	An 81/90 AFUE standard and a 20-percent increase in furnace fan efficiency, in 2011.	1, 2	Specific assumptions by equipment or end use
Torchiere Lamps .....	190 watt standard in 2007.	1, 2	
Ceiling Fan Light Kits .....	123 kWh/year savings per unit in 2009.	1, 2	
<b>Commercial Appliance Standards</b>			
Air Conditioners, air-cooled.....	10.6-11.2 EER Standard in 2010.	1, 2	Specific assumptions by equipment or end use
Reach-in Refrigerators .....	26/39-percent efficiency improvement in 2010.		
Pre-rinse Spray Valves .....	336 therms/year per unit savings in 2008.		
Distribution Transformers.....	22/25 kilowatt-hours per year per unit savings in 2010.		
<b>Tax Credits</b>			
New Homes.....	Tax credits to builders, 2006-2008.	1, 2	Cost-based equipment choice simulation
Existing Homes .....	Tax credits to homeowners, 2006-2008.	1, 2	
Residential Equipment .....	Tax credits to homeowners, 2006-2010.	1, 2	
Commercial Equipment.....	Tax deductions for businesses, 2006-2010.	1, 2	
Combined Heat and Power .....	10-percent tax credit for businesses, 2006-2008.	1, 2	
<b>Building Codes</b>			
HUD Homes.....	All States adopt new code in 2007.	1, 2	Specific assumptions by end use
Non-HUD Homes .....	Updates to IECC in 2009, 2012, 2015.	2	
Commercial Building Shell Components and Lighting Systems .....	Updates to ASHRAE 90.1 adopted by all States in 2007, 2010, and 2013.	2	
<b>CAFE Reform</b>			
Testing Procedures .....	Requires a 20-percent increase in fuel economy to comply with more stringent fuel economy test procedures, phased-in from 2008 to 2012. The revised test procedures eliminate the discrepancy with on-road fuel economy.	1, 2	Technology adoption simulation
<b>Energy Efficiency Performance Standards</b>			
5-State Program.....	Assumes 5 "average States" require electricity and natural gas suppliers to achieve an incremental 0.75-percent reduction in demand annually from 2009 through 2025.	1	Assumed impacts across all end uses
National Program .....	Assumes all States require electricity and natural gas suppliers to achieve an incremental 0.50-percent reduction in demand annually from 2009 to 2025.	2	
<b>Voluntary Programs</b>			
Industrial .....	Target based on goal to reduce energy intensity by 2.5 percent annually, 2007-2016, with 10 percent participation.	1,2	Assumed impacts to meet aggregate targets
Electricity Industry .....	Industry target to reduce energy intensity by 5 percent cumulatively (about 0.5 percent annually) from 2007 through 2016. Applies to fossil and biomass plants.	2	
Natural Gas Industry .....	Industry target to reduce energy intensity by 5 percent cumulatively (about 0.5 percent annually) from 2007 through 2016, with 25 percent participation. Applies to pipeline and lease and plant fuel.	2	