

State-Level Benefits from Potential State Appliance Standards

Rhode Island

	Electricity	Summer Peak Capacity	Natural Gas	Water	CO ₂ Emissions	Value of Bill Savings
	<i>GWh</i>	<i>MW</i>	<i>BBtu</i>	<i>Billion Gallons</i>	<i>1000 MT</i>	<i>\$Million</i>
Annual Savings in 2025	272	30	38	0.3	136	46
Annual Savings in 2035	325	34	71	0.6	163	56

Net Present Value (\$Million (2010\$))	\$ 425
Cumulative Energy Savings Through 2035 (TBtu)	54.1

Products	Effective Date		Annual Savings per Unit	Incremental Cost per Unit	Annual Savings in 2025						Annual Savings in 2035						Economics				
	Year	Amount			Unit	Electricity	Summer Peak Capacity	Natural Gas	Water	CO ₂ Emissions	Value of Bill Savings	Electricity	Summer Peak Capacity	Natural Gas	Water	CO ₂ Emissions	Value of Bill Savings	Pay Back Period	Benefit/Cost Ratio	Net Present Value	Cumulative Energy Savings Through 2035
						\$	GWh	MW	BBtu	Billion Gallons	1000 MT	\$Million	GWh	MW	BBtu	Billion Gallons	1000 MT	\$Million	Years		\$Million (2010\$)
Residential:																					
Battery chargers	2014	12	kWh	\$ 3.72	22	3	-	-	11	\$ 3.5	22	3	-	-	11	\$ 3.5	2.0	1.6	\$ 13.2	4.5	
Computer equipment and components	2014	-		\$ -	42	6	-	-	21	\$ 6.6	42	6	-	-	20	\$ 6.6	-	no cost	\$ 63.4	8.2	
<i>Desktops</i>	2014	87	kWh	\$ -	30	4	-	-	15	\$ 4.9	30	4	-	-	15	\$ 4.9	-	no cost	\$ 46.1	6.0	
<i>Laptops</i>	2014	27	kWh	\$ -	4	1	-	-	2	\$ 0.7	4	1	-	-	2	\$ 0.7	-	no cost	\$ 7.1	0.9	
<i>Monitors</i>	2014	58	kWh	\$ -	7	1	-	-	3	\$ 1.0	7	1	-	-	3	\$ 1.0	-	no cost	\$ 10.1	1.3	
Faucets (residential lavatory)	2014	-		\$ 4.00	6	1	38	0.1	5	\$ 2.2	10	1	71	0.2	9	\$ 4.0	0.6	21.0	\$ 27.2	2.0	
<i>Water</i>	2014	292	gallons	\$ -	-	-	-	0.1	-	\$ 0.7	-	-	-	0.2	-	\$ 1.3	-	20.6	\$ 8.9	0.0	
<i>Water heating - gas</i>	2014	1	therms	\$ -	-	-	38	-	2	\$ 0.6	-	-	71	-	4	\$ 1.1	-	16.5	\$ 7.1	0.8	
<i>Water heating - electricity</i>	2014	16	kWh	\$ -	6	1	-	-	3	\$ 0.9	10	1	-	-	5	\$ 1.6	-	25.7	\$ 11.2	1.2	
Game consoles	2014	77	kWh	\$ -	28	4	-	-	14	\$ 4.5	28	4	-	-	14	\$ 4.5	-	no cost	\$ 42.4	5.5	
Set-top boxes	2014	83	kWh	\$ -	52	7	-	-	26	\$ 8.2	52	7	-	-	25	\$ 8.2	-	no cost	\$ 78.2	10.1	
Televisions	2014	61	kWh	\$ -	35	1	-	-	17	\$ 5.6	35	1	-	-	17	\$ 5.6	-	no cost	\$ 47.3	6.0	
Toilets	2014	795	gallons	\$ -	-	-	-	0.2	-	\$ 1.3	-	-	-	0.4	-	\$ 2.5	-	no cost	\$ 17.7	0.0	
<i>Residential subtotal:</i>					184	21	38	0.3	93	\$ 31.9	189	22	71	0.5	97	\$ 35.0	2.6	22.6	\$ 289	36.3	
Commercial:																					
Fans, blowers & ventilation equipment	2015	9,474	kWh	\$ 1,410.00	6	1	-	-	3	\$ 0.8	9	1	-	-	5	\$ 1.2	1.2	8.7	\$ 7.4	1.3	
Pumps	2014	1,424	kWh	\$ 791.00	11	2	-	-	6	\$ 1.5	15	2	-	-	7	\$ 1.9	4.3	2.3	\$ 8.3	2.2	
Urinals	2014	2,340	gallons	\$ -	-	-	-	0.0	-	\$ 0.2	-	-	-	0.0	-	\$ 0.3	-	no cost	\$ 2.1	0.0	
<i>Commercial subtotal:</i>					18	3	-	0.0	9	\$ 2.5	24	4	-	0.0	12	\$ 3.4	5.5	11.0	\$ 18	3.4	
Lighting:																					
Luminaires (portable light fixtures)	2014	22	kWh	\$ 1.50	6	1	-	-	3	\$ 0.9	-	-	-	-	\$ -	-	0.4	7.7	\$ 6.8	0.9	
Outdoor lighting fixtures	2014	241	kWh	\$ 40.00	64	4	-	-	32	\$ 10.2	112	8	-	-	55	\$ 17.8	1.0	11.5	\$ 111.1	13.5	
<i>Lighting subtotal:</i>					70	5	-	-	35	\$ 11.2	112	8	-	-	55	\$ 17.8	1.5	19.3	\$ 118	14.4	
TOTAL					272	30	38	0.3	136	\$ 45.6	325	34	71	0.6	163	\$ 56			\$ 425	54.1	