

State-Level Benefits from Potential State Appliance Standards

Minnesota

Products	Annual Savings per Unit		Incremental Cost per Unit	Annual Savings in 2025					Annual Savings in 2035					Economics			Cumulative Energy Savings Through 2035
				Electricity	Natural Gas	Water	CO ₂ Emissions	Value of Bill Savings	Electricity	Natural Gas	Water	CO ₂ Emissions	Value of Bill Savings	Pay Back Period	Benefit/Cost Ratio	Net Present Value	
	Amount	Unit	\$	GWh	BBtu	Million Gallons	1000 MT	Million 2012\$	GWh	BBtu	Million Gallons	1000 MT	Million 2012\$	Years		Million 2012\$	TBtu
Battery Chargers	-	-	-	216.9	-	-	144.0	24.4	221.0	-	-	141.0	24.8	-	-	154.3	37.4
<i>Small Consumer Chargers</i>	10	kWh	\$1.53	209.5	-	-	139.1	23.8	209.5	-	-	133.6	23.8	1.3	2.6	147.9	36.0
<i>Small Non-Consumer Chargers</i>	9	kWh	\$2.93	2.6	-	-	1.7	0.2	3.1	-	-	2.0	0.3	3.8	2.1	1.2	0.4
<i>Large Chargers</i>	3,294	kWh	\$343	4.8	-	-	3.2	0.4	8.5	-	-	5.4	0.7	1.2	9.0	5.2	1.0
Commercial Dishwashers	-	-	\$357	7.4	37.0	82.4	6.9	1.5	11.5	57.3	127.6	10.4	2.3	0.6	16.9	17.5	2.1
<i>electricity</i>	3,109	kWh	-	7.4	-	-	4.9	0.7	11.5	-	-	7.3	1.0	-	-	-	1.4
<i>natural gas</i>	156	therms	-	-	37.0	-	2.0	0.2	-	57.3	-	3.0	0.4	-	-	-	0.7
<i>water</i>	34,643	gallons	-	-	-	82.4	-	0.6	-	-	127.6	-	0.9	-	-	-	-
Double-Ended Quartz Halogen Lamps	329	kWh	\$34	16.3	-	-	10.8	1.4	0.0	-	-	0.0	0.0	1.2	1.5	5.8	2.8
Faucets (lavatory)	-	-	\$0	15.2	104.2	299.1	15.6	4.7	17.8	122.6	351.9	17.9	5.5	no cost	no cost	48.0	4.2
<i>electricity</i>	14	kWh	-	15.2	-	-	10.1	1.7	17.8	-	-	11.4	2.0	-	-	-	2.5
<i>natural gas</i>	1	therms	-	-	104.2	-	5.5	0.8	-	122.6	-	6.5	1.0	-	-	-	1.7
<i>water</i>	285	gallons	-	-	-	299.1	-	2.2	-	-	351.9	-	2.5	-	-	-	-
Hot Food Holding Cabinets	2,197	kWh	\$609	4.5	-	-	3.0	0.4	6.4	-	-	4.1	0.6	3.1	2.9	3.1	0.8
Portable Electric Spas	743	kWh	\$346	4.0	-	-	2.6	0.4	4.7	-	-	3.0	0.5	4.1	1.5	1.5	0.7
Room Air Cleaners	340	kWh	\$0	102.0	-	-	67.7	11.6	108.0	-	-	68.9	12.3	no cost	no cost	108.8	15.7
Toilets	745	gallons	\$0	-	-	645.4	-	4.6	-	-	1,404.8	-	10.1	no cost	no cost	73.0	-
Urinals	4,095	gallons	\$0	-	-	368.3	-	2.6	-	-	541.6	-	3.9	no cost	no cost	32.0	-
Water Dispensers	236	kWh	\$12	8.8	-	-	5.8	0.8	10.3	-	-	6.6	0.9	0.6	14.0	7.4	1.5
Total	-	-	-	375	141	1,395	257	53	380	180	2,426	252	61	-	-	451	65

*Assuming an effective date of 2017 for all standards.