

**EXHIBIT NO. ____ (AF-5HC)
DOCKETS UE-151871/UG-151872
PSE EQUIPMENT LEASING SERVICE
WITNESS: AHMAD FARUQUI, PhD**

**BEFORE THE
WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION**

**WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,**

Complainant,

v.

PUGET SOUND ENERGY,

Respondent.

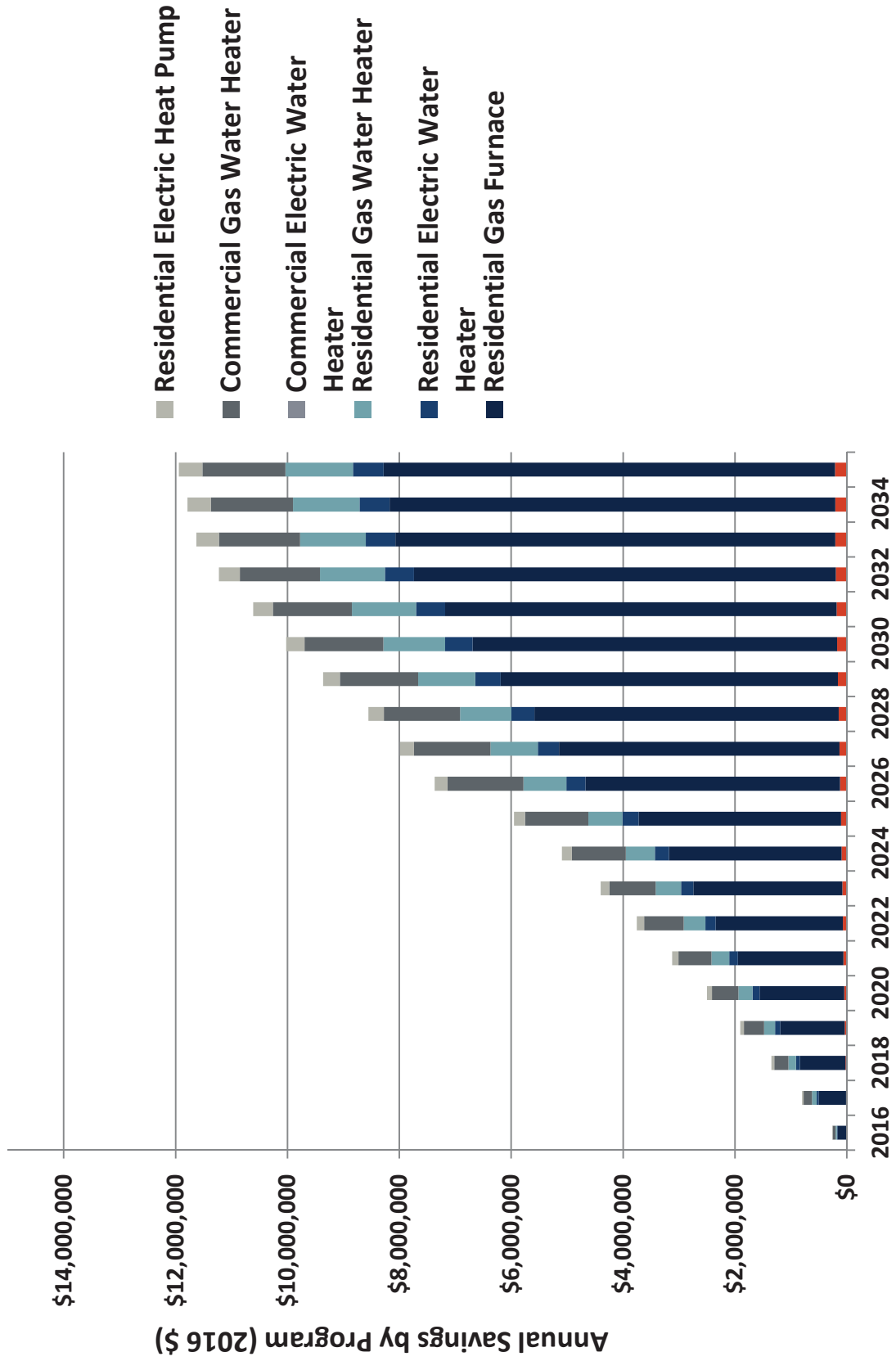
**Dockets UE-151871
UG-151872**

**FIRST EXHIBIT (HIGHLY CONFIDENTIAL) TO THE
PREFILED REBUTTAL TESTIMONY OF
AHMAD FARUQUI, Ph.D.
ON BEHALF OF PUGET SOUND ENERGY**

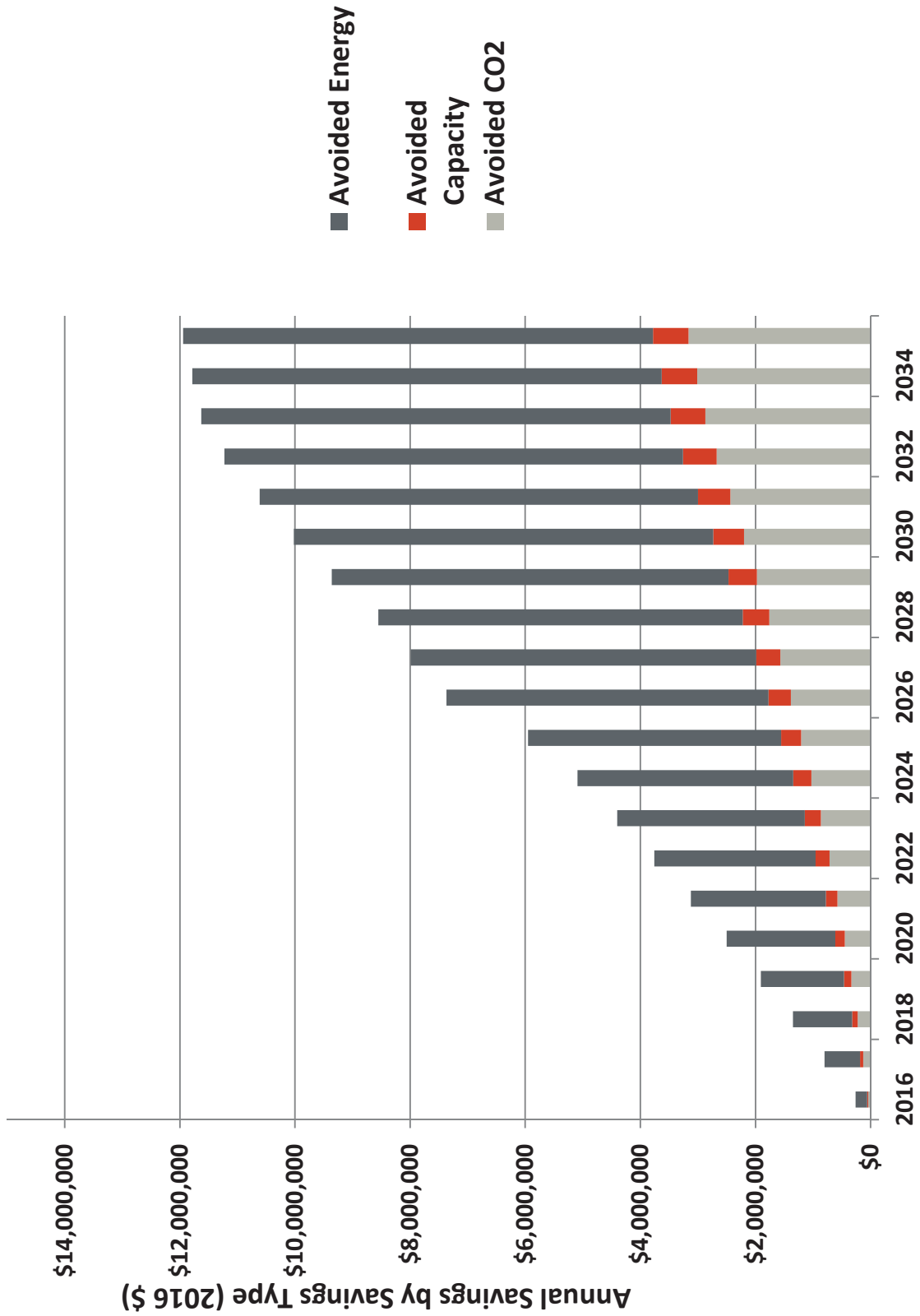
**PUBLIC
VERSION**

JULY 1, 2016

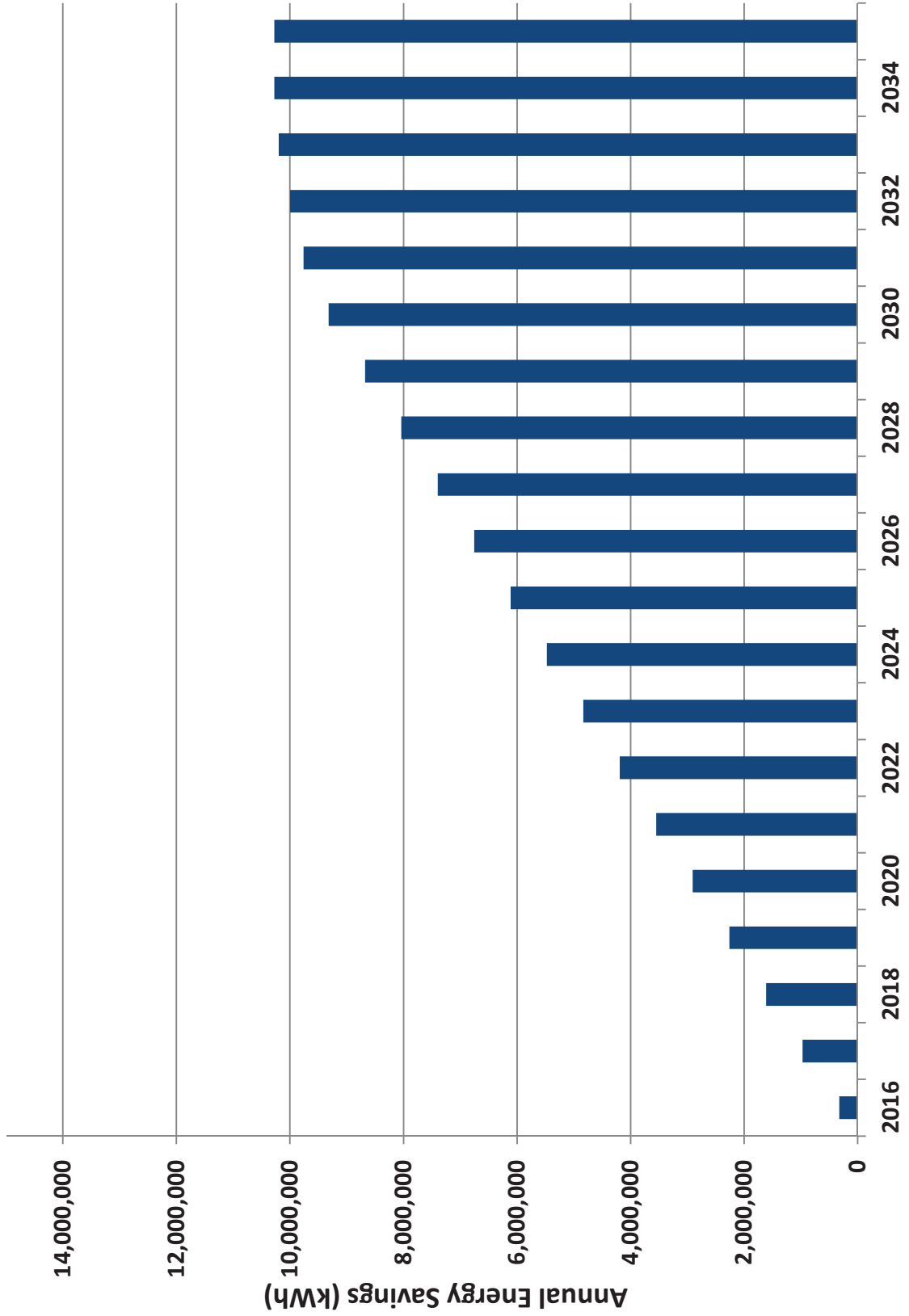
Annual Savings by Program (2016 \$)

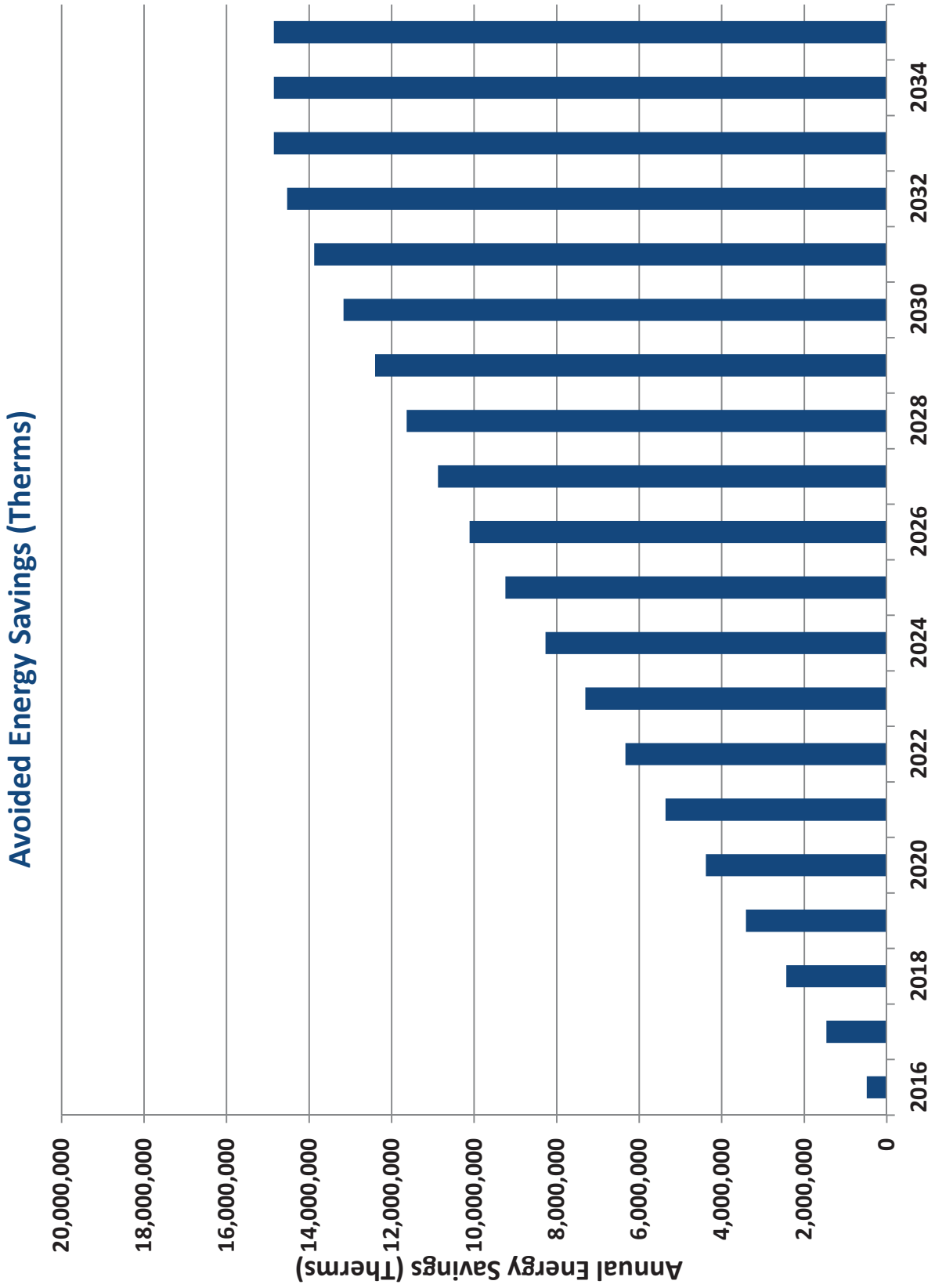


Annual Savings By Avoided Cost Category (2016 \$)

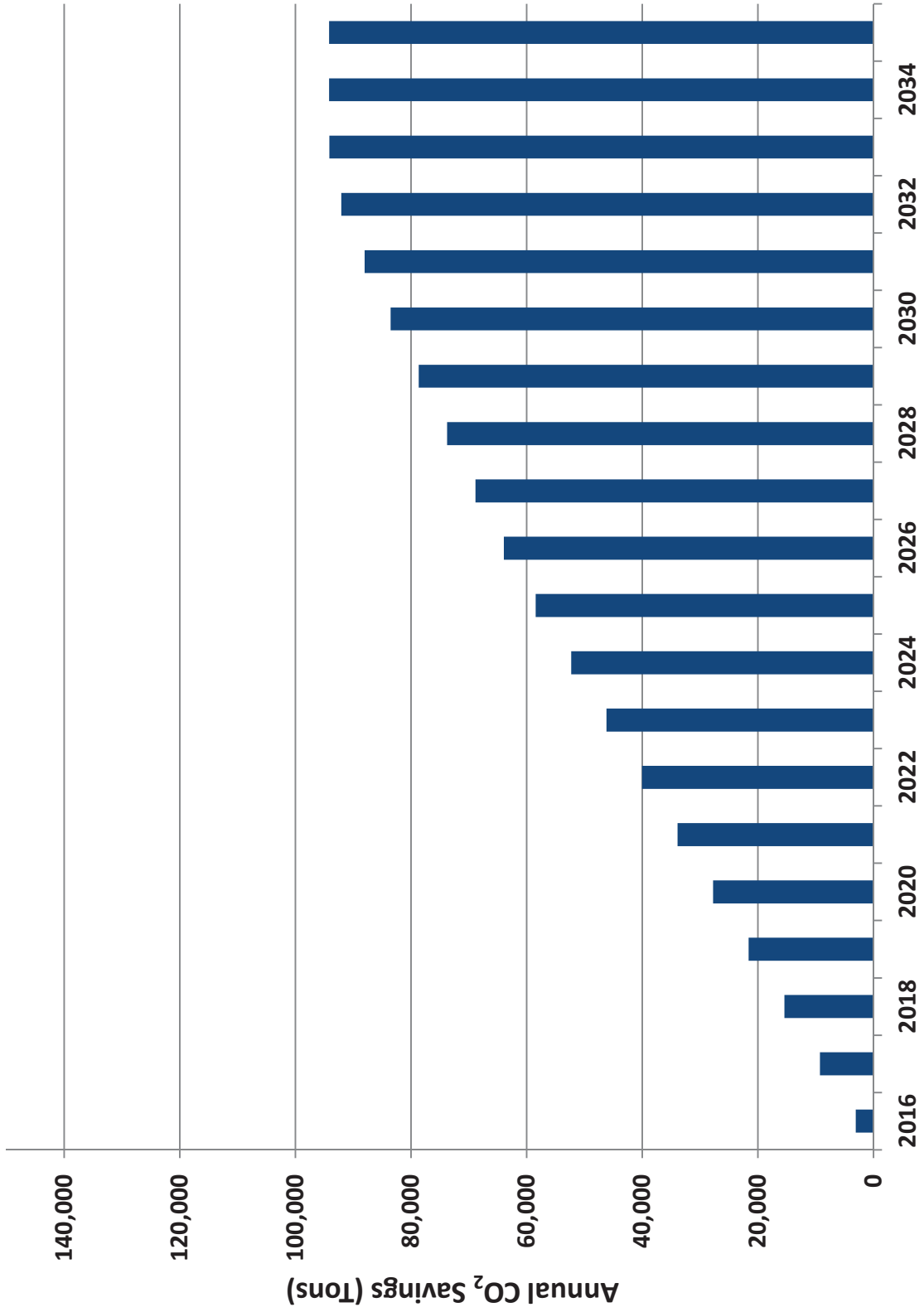


Avoided Energy Savings (kWh)

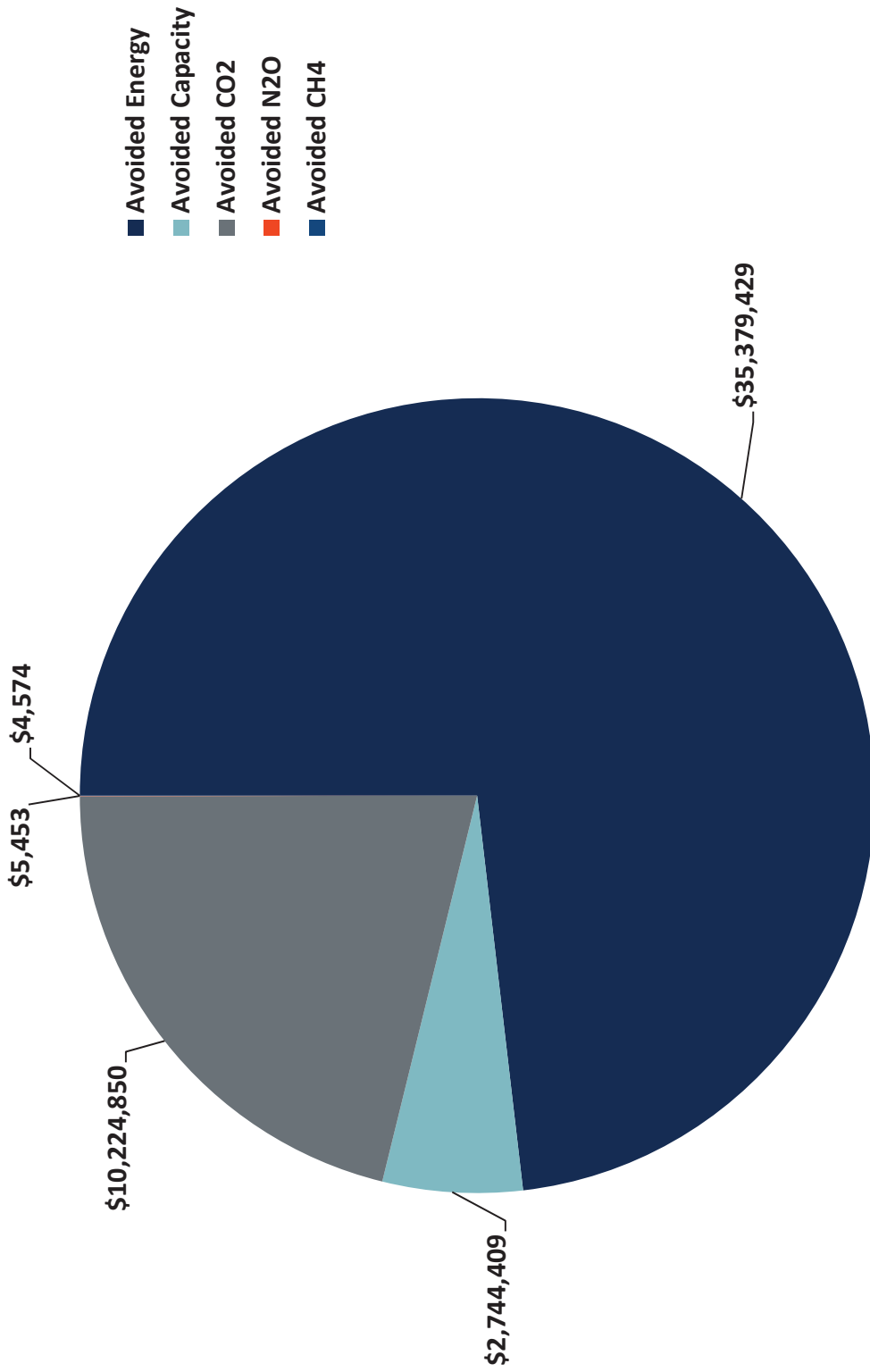




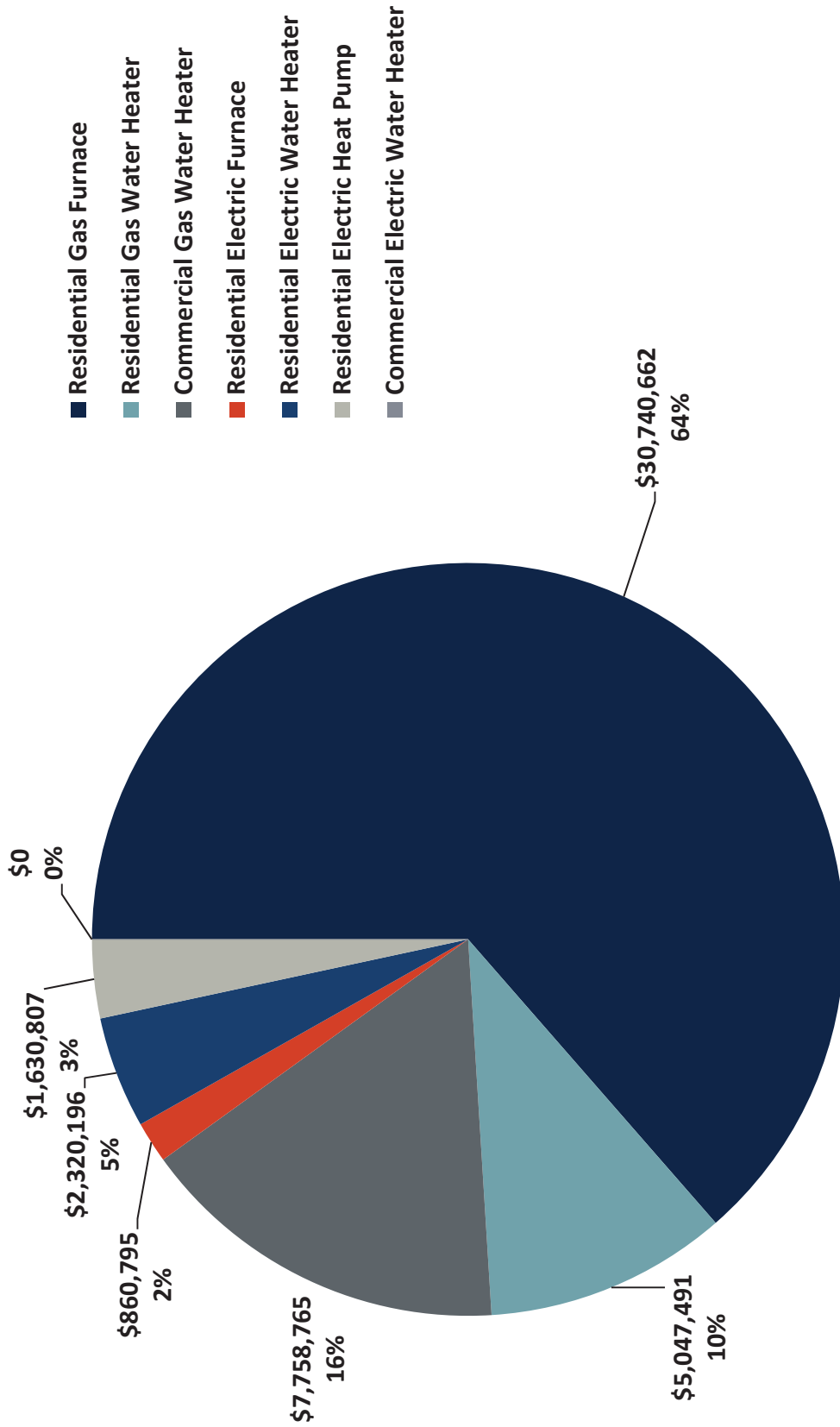
Avoided Emissions Savings (Tons of Carbon Equivalents)



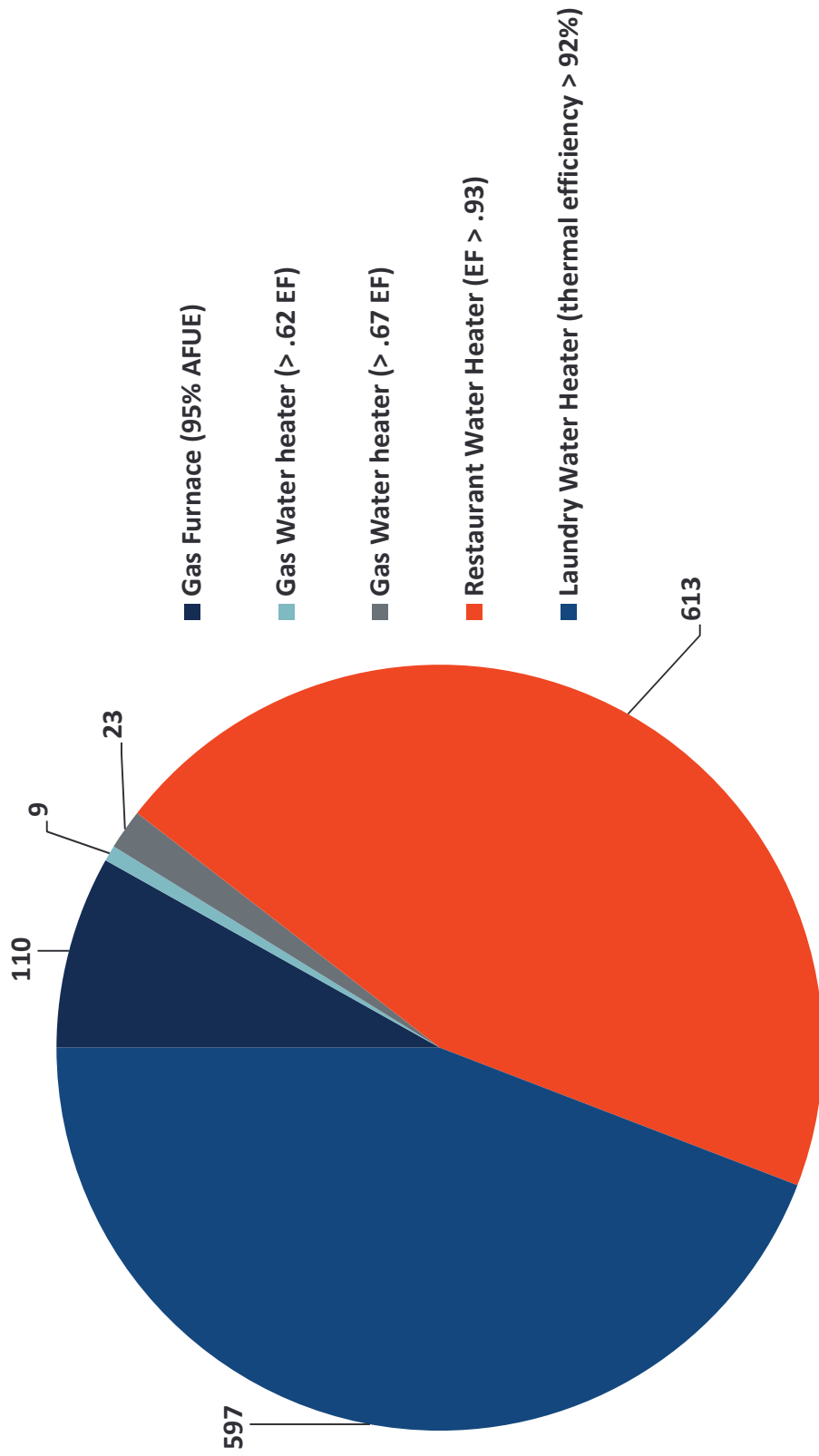
Net Present Value for First 20 Years of the Program



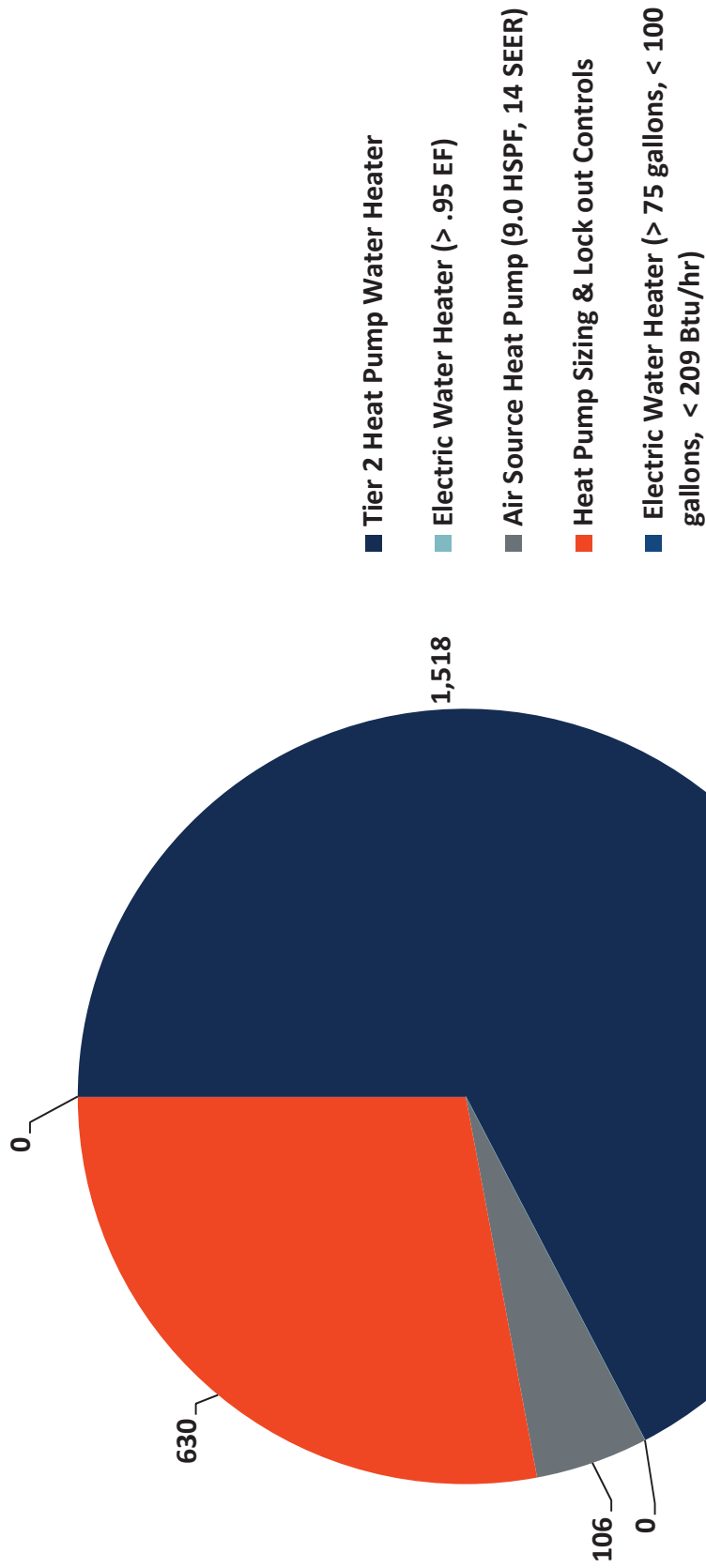
Net Present Value for First 20 Years of the Program

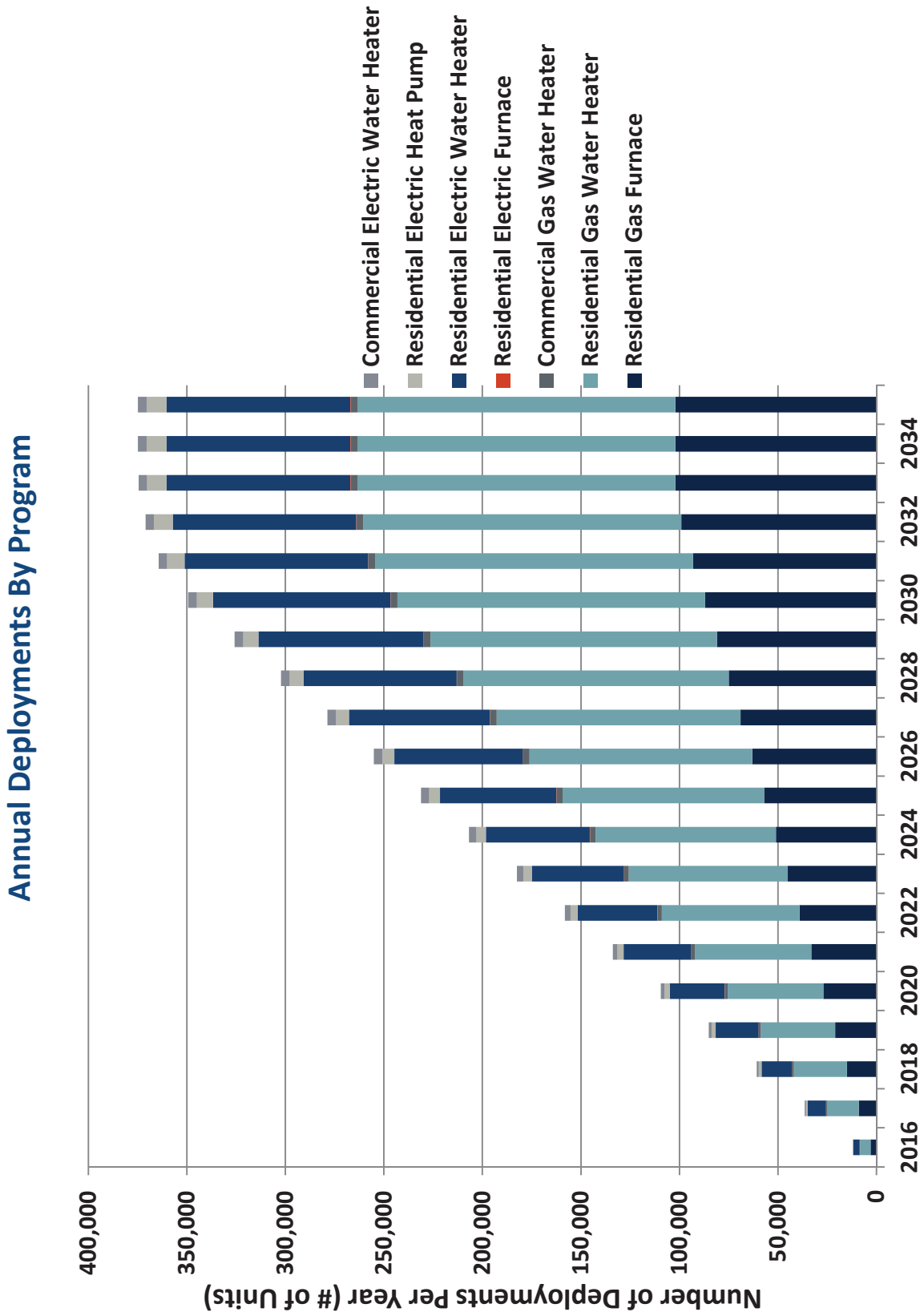


Per Unit Savings By Product (Therms)



Per Unit Savings By Product (kWh)





Total Savings by Program (\$)

Note	Fuel	Customer Class	Program	Total Savings - NPV for First 20 Years of the Program	Bill Savings - NPV for First 20 Years of the Program
[1]	Gas	Residential	Furnace	REDACTED	REDACTED
[2]	Gas	Residential	Water Heater	REDACTED	REDACTED
[3]	Gas	Commercial	Water Heater	REDACTED	REDACTED
[4]	Electric	Residential	Furnace	REDACTED	REDACTED
[5]	Electric	Residential	Water Heater	REDACTED	REDACTED
[6]	Electric	Residential	Heat Pump	REDACTED	REDACTED
[7]	Electric	Commercial	Water Heater	REDACTED	REDACTED
Total				REDACTED	REDACTED

Total Savings by Source (\$)

Note	Savings Type	NPV for First 20 Years of the Program
[1]	Avoided Energy	REDACTED
[2]	Avoided Capacity	
[3]	Avoided CO ₂	
[4]	Avoided N ₂ O	
[5]	Avoided CH ₄	
	Total	

Total Savings by Program (\$)

Note	Fuel	Customer Class	Program	2016	2017	2018
[1]	Gas	Residential	Furnace	REDACTED		
[2]	Gas	Residential	Water Heater			
[3]	Gas	Commercial	Water Heater			
[4]	Electric	Residential	Furnace			
[5]	Electric	Residential	Water Heater			
[6]	Electric	Residential	Heat Pump			
[7]	Electric	Commercial	Water Heater			

Total Savings by Program (\$)

Note	Fuel	Customer Class	Program	2019	2020	2021
[1]	Gas	Residential	Furnace	REDACTED		
[2]	Gas	Residential	Water Heater			
[3]	Gas	Commercial	Water Heater			
[4]	Electric	Residential	Furnace			
[5]	Electric	Residential	Water Heater			
[6]	Electric	Residential	Heat Pump			
[7]	Electric	Commercial	Water Heater			

Total Savings by Program (\$)

Note	Fuel	Customer Class	Program	2022	2023	2024
[1]	Gas	Residential	Furnace	REDACTED		
[2]	Gas	Residential	Water Heater			
[3]	Gas	Commercial	Water Heater			
[4]	Electric	Residential	Furnace			
[5]	Electric	Residential	Water Heater			
[6]	Electric	Residential	Heat Pump			
[7]	Electric	Commercial	Water Heater			

Total Savings by Program (\$)

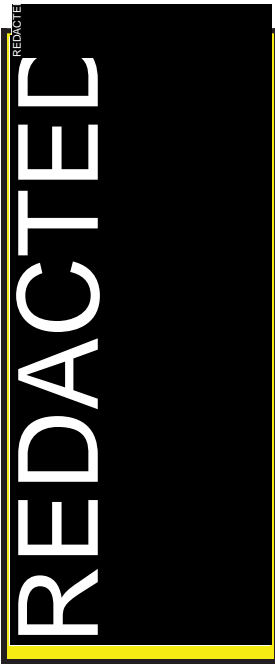
Note	Fuel	Customer Class	Program	2025	2026	2027
[1]	Gas	Residential	Furnace	REDACTED		
[2]	Gas	Residential	Water Heater			
[3]	Gas	Commercial	Water Heater			
[4]	Electric	Residential	Furnace			
[5]	Electric	Residential	Water Heater			
[6]	Electric	Residential	Heat Pump			
[7]	Electric	Commercial	Water Heater			

Total Savings by Program (\$)

Note	Fuel	Customer Class	Program	2028	2029	2030
[1]	Gas	Residential	Furnace	REDACTED		
[2]	Gas	Residential	Water Heater			
[3]	Gas	Commercial	Water Heater			
[4]	Electric	Residential	Furnace			
[5]	Electric	Residential	Water Heater			
[6]	Electric	Residential	Heat Pump			
[7]	Electric	Commercial	Water Heater			

Total Savings by Program (\$)

Note	Fuel	Customer Class	Program	2031	2032	2033
[1]	Gas	Residential	Furnace			
[2]	Gas	Residential	Water Heater			
[3]	Gas	Commercial	Water Heater			
[4]	Electric	Residential	Furnace			
[5]	Electric	Residential	Water Heater			
[6]	Electric	Residential	Heat Pump			
[7]	Electric	Commercial	Water Heater			



Total Savings by Program (\$)

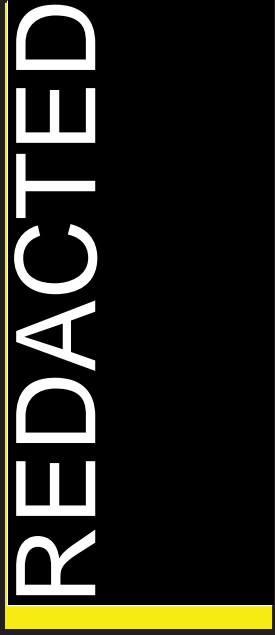
Note	Fuel	Customer Class	Program	2034	2035	2036
[1]	Gas	Residential	Furnace			
[2]	Gas	Residential	Water Heater			
[3]	Gas	Commercial	Water Heater			
[4]	Electric	Residential	Furnace			
[5]	Electric	Residential	Water Heater			
[6]	Electric	Residential	Heat Pump			
[7]	Electric	Commercial	Water Heater			



Total Savings by Program (\$)

Note	Fuel	Customer Class	Program	2016	2017	2018
[1]	Gas	Residential	Furnace	<div style="background-color: black; color: white; padding: 10px; text-align: center; font-size: 2em; font-weight: bold;"> REDACTED </div>		
[2]	Gas	Residential	Water Heater			
[3]	Gas	Commercial	Water Heater			
[4]	Electric	Residential	Furnace			
[5]	Electric	Residential	Water Heater			
[6]	Electric	Residential	Heat Pump			
[7]	Electric	Commercial	Water Heater			

Total Savings by Program (\$)

Note	Fuel	Customer Class	Program	2019	2020	2021
[1]	Gas	Residential	Furnace			
[2]	Gas	Residential	Water Heater			
[3]	Gas	Commercial	Water Heater			
[4]	Electric	Residential	Furnace			
[5]	Electric	Residential	Water Heater			
[6]	Electric	Residential	Heat Pump			
[7]	Electric	Commercial	Water Heater			

Total Savings by Program (\$)

Note	Fuel	Customer Class	Program	2022	2023	2024
[1]	Gas	Residential	Furnace	REDACTED		
[2]	Gas	Residential	Water Heater			
[3]	Gas	Commercial	Water Heater			
[4]	Electric	Residential	Furnace			
[5]	Electric	Residential	Water Heater			
[6]	Electric	Residential	Heat Pump			
[7]	Electric	Commercial	Water Heater			

Total Savings by Program (\$)

Note	Fuel	Customer Class	Program	2025	2026	2027
[1]	Gas	Residential	Furnace	REDACTED		
[2]	Gas	Residential	Water Heater			
[3]	Gas	Commercial	Water Heater			
[4]	Electric	Residential	Furnace			
[5]	Electric	Residential	Water Heater			
[6]	Electric	Residential	Heat Pump			
[7]	Electric	Commercial	Water Heater			

Total Savings by Program (\$)

Note	Fuel	Customer Class	Program	2028	2029	2030
[1]	Gas	Residential	Furnace	<div style="background-color: black; color: white; padding: 10px; text-align: center;"> REDACTED </div>		
[2]	Gas	Residential	Water Heater			
[3]	Gas	Commercial	Water Heater			
[4]	Electric	Residential	Furnace			
[5]	Electric	Residential	Water Heater			
[6]	Electric	Residential	Heat Pump			
[7]	Electric	Commercial	Water Heater			

Total Savings by Program (\$)

Note	Fuel	Customer Class	Program	2031	2032	2033
[1]	Gas	Residential	Furnace	REDACTED		
[2]	Gas	Residential	Water Heater			
[3]	Gas	Commercial	Water Heater			
[4]	Electric	Residential	Furnace			
[5]	Electric	Residential	Water Heater			
[6]	Electric	Residential	Heat Pump			
[7]	Electric	Commercial	Water Heater			

Total Savings by Program (\$)

Note	Fuel	Customer Class	Program	2034	2035	2036
[1]	Gas	Residential	Furnace	REDACTED		
[2]	Gas	Residential	Water Heater			
[3]	Gas	Commercial	Water Heater			
[4]	Electric	Residential	Furnace			
[5]	Electric	Residential	Water Heater			
[6]	Electric	Residential	Heat Pump			
[7]	Electric	Commercial	Water Heater			

Total Savings by Source (\$)

Note	Savings Type	2016	2017	2018	2019	2020
[1]	Avoided Energy	REDACTED				
[2]	Avoided Capacity					
[3]	Avoided CO ₂					
[4]	Avoided N ₂ O					
[5]	Avoided CH ₄					

Total Savings by Source (\$)

Note	Savings Type	2021	2022	2023	2024	2025
[1]	Avoided Energy	REDACTED				
[2]	Avoided Capacity					
[3]	Avoided CO ₂					
[4]	Avoided N ₂ O					
[5]	Avoided CH ₄					

Total Savings by Source (\$)

Note	Savings Type	2026	2027	2028	2029	2030
[1]	Avoided Energy	REDACTED				
[2]	Avoided Capacity					
[3]	Avoided CO ₂					
[4]	Avoided N ₂ O					
[5]	Avoided CH ₄					

Total Savings by Source (\$)

Note	Savings Type	2031	2032	2033	2034
[1]	Avoided Energy	REDACTED			
[2]	Avoided Capacity				
[3]	Avoided CO ₂				
[4]	Avoided N ₂ O				
[5]	Avoided CH ₄				

Total Savings by Source (\$)

Note	Savings Type	2035	2036
[1]	Avoided Energy	REDACTED	REDACTED
[2]	Avoided Capacity		
[3]	Avoided CO ₂		
[4]	Avoided N ₂ O		
[5]	Avoided CH ₄		

Total Savings (\$)

Note	Price Series	Class	Unit	2016	2017	2018
[1]	Wholesale Electricity Prices -->	All	\$/kWh	REDACTED		
[2]	Wholesale Natural Gas Prices -->	All	\$/Therm			
[3]	Retail Electricity Prices -->	Residential	\$/kWh			
[4]	Retail Natural Gas Prices -->	Residential	\$/Therm			
[5]	Retail Electricity Prices -->	Commercial	\$/kWh			
[6]	Retail Natural Gas Prices -->	Commercial	\$/Therm			
[7]	CO ₂ Prices -->	All	\$/Ton			
[8]	CH ₄ Prices -->	All	\$/Ton			
[9]	N ₂ O Prices -->	All	\$/Ton			

Note	Savings Type	Fuel	Customer Class	Program	Physical Units
[10]	Avoided Energy	Gas	Residential	Furnace	Therms
[11]	Avoided Energy	Gas	Residential	Water Heater	Therms
[12]	Avoided Energy	Gas	Commercial	Water Heater	Therms
[13]	Avoided Energy	Electric	Residential	Furnace	kWh
[14]	Avoided Energy	Electric	Residential	Water Heater	kWh
[15]	Avoided Energy	Electric	Residential	Heat Pump	kWh
[16]	Avoided Energy	Electric	Commercial	Water Heater	kWh
[17]	Bill Savings	Gas	Residential	Furnace	Therms
[18]	Bill Savings	Gas	Residential	Water Heater	Therms
[19]	Bill Savings	Gas	Commercial	Water Heater	Therms
[20]	Bill Savings	Electric	Residential	Furnace	kWh
[21]	Bill Savings	Electric	Residential	Water Heater	kWh
[22]	Bill Savings	Electric	Residential	Heat Pump	kWh
[23]	Bill Savings	Electric	Commercial	Water Heater	kWh
[24]	Avoided Distribution Capacity	Gas	Residential	Furnace	Therms
[25]	Avoided Distribution Capacity	Gas	Residential	Water Heater	Therms
[26]	Avoided Distribution Capacity	Gas	Commercial	Water Heater	Therms
[27]	Avoided Distribution Capacity	Electric	Residential	Furnace	kW
[28]	Avoided Distribution Capacity	Electric	Residential	Water Heater	kW
[29]	Avoided Distribution Capacity	Electric	Residential	Heat Pump	kW
[30]	Avoided Distribution Capacity	Electric	Commercial	Water Heater	kW
[31]	Avoided Generation Capacity	Gas	Residential	Furnace	Therms
[32]	Avoided Generation Capacity	Gas	Residential	Water Heater	Therms
[33]	Avoided Generation Capacity	Gas	Commercial	Water Heater	Therms
[34]	Avoided Generation Capacity	Electric	Residential	Furnace	kW
[35]	Avoided Generation Capacity	Electric	Residential	Water Heater	kW
[36]	Avoided Generation Capacity	Electric	Residential	Heat Pump	kW
[37]	Avoided Generation Capacity	Electric	Commercial	Water Heater	kW
[38]	Avoided CO ₂	Gas	Residential	Furnace	Tons
[39]	Avoided CO ₂	Gas	Residential	Water Heater	Tons
[40]	Avoided CO ₂	Gas	Commercial	Water Heater	Tons
[41]	Avoided CO ₂	Electric	Residential	Furnace	Tons
[42]	Avoided CO ₂	Electric	Residential	Water Heater	Tons
[43]	Avoided CO ₂	Electric	Residential	Heat Pump	Tons
[44]	Avoided CO ₂	Electric	Commercial	Water Heater	Tons
[45]	Avoided N ₂ O	Gas	Residential	Furnace	Tons
[46]	Avoided N ₂ O	Gas	Residential	Water Heater	Tons
[47]	Avoided N ₂ O	Gas	Commercial	Water Heater	Tons
[48]	Avoided N ₂ O	Electric	Residential	Furnace	Tons
[49]	Avoided N ₂ O	Electric	Residential	Water Heater	Tons
[50]	Avoided N ₂ O	Electric	Residential	Heat Pump	Tons
[51]	Avoided N ₂ O	Electric	Commercial	Water Heater	Tons
[52]	Avoided CH ₄	Gas	Residential	Furnace	Tons
[53]	Avoided CH ₄	Gas	Residential	Water Heater	Tons
[54]	Avoided CH ₄	Gas	Commercial	Water Heater	Tons
[55]	Avoided CH ₄	Electric	Residential	Furnace	Tons
[56]	Avoided CH ₄	Electric	Residential	Water Heater	Tons
[57]	Avoided CH ₄	Electric	Residential	Heat Pump	Tons
[58]	Avoided CH ₄	Electric	Commercial	Water Heater	Tons

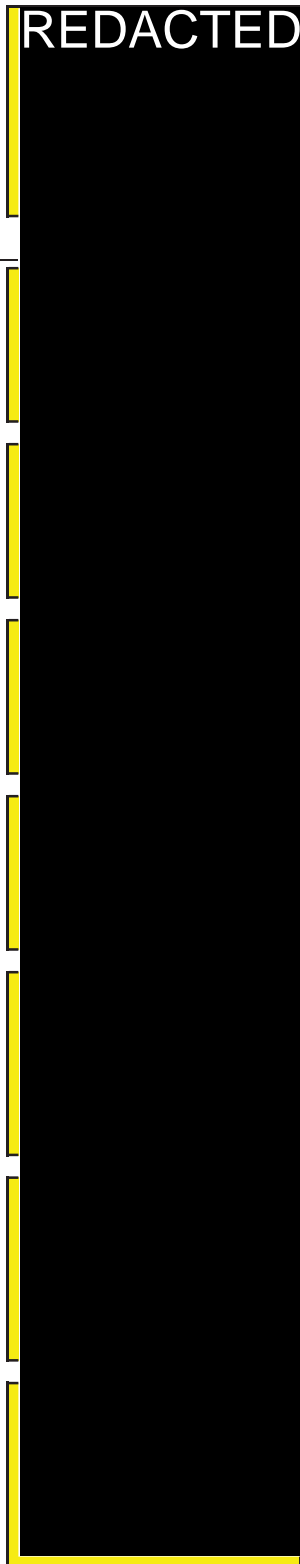
Total Savings (\$)

Note	Price Series	Class	Unit	2019	2020	2021
[1]	Wholesale Electricity Prices -->	All	\$/kWh	REDACTED		
[2]	Wholesale Natural Gas Prices -->	All	\$/Therm			
[3]	Retail Electricity Prices -->	Residential	\$/kWh			
[4]	Retail Natural Gas Prices -->	Residential	\$/Therm			
[5]	Retail Electricity Prices -->	Commercial	\$/kWh			
[6]	Retail Natural Gas Prices -->	Commercial	\$/Therm			
[7]	CO ₂ Prices -->	All	\$/Ton			
[8]	CH ₄ Prices -->	All	\$/Ton			
[9]	N ₂ O Prices -->	All	\$/Ton			
Note	Savings Type	Fuel	Customer Class	Program	Physical Units	
[10]	Avoided Energy	Gas	Residential	Furnace	Therms	
[11]	Avoided Energy	Gas	Residential	Water Heater	Therms	
[12]	Avoided Energy	Gas	Commercial	Water Heater	Therms	
[13]	Avoided Energy	Electric	Residential	Furnace	kWh	
[14]	Avoided Energy	Electric	Residential	Water Heater	kWh	
[15]	Avoided Energy	Electric	Residential	Heat Pump	kWh	
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[26]	Avoided Distribution Capacity	Gas	Commercial	Water Heater	Therms	
[27]	Avoided Distribution Capacity	Electric	Residential	Furnace	kW	
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[34]	Avoided Generation Capacity	Electric	Residential	Furnace	kW	
[35]	Avoided Generation Capacity	Electric	Residential	Water Heater	kW	
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Total Savings (\$)

Note	Price Series	Class	Unit	2022	2023	2024
[1]	Wholesale Electricity Prices -->	All	\$/kWh			
[2]	Wholesale Natural Gas Prices -->	All	\$/Therm			
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Note	Savings Type	Fuel	Customer Class	Program	Physical Units
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[43]	Avoided CO ₂	Electric	Residential	Heat Pump	Tons
[44]	Avoided CO ₂	Electric	Commercial	Water Heater	Tons
[45]	Avoided N ₂ O	Gas	Residential	Furnace	Tons
[46]	Avoided N ₂ O	Gas	Residential	Water Heater	Tons
[47]	Avoided N ₂ O	Gas	Commercial	Water Heater	Tons
[48]	Avoided N ₂ O	Electric	Residential	Furnace	Tons
[49]	Avoided N ₂ O	Electric	Residential	Water Heater	Tons
[50]	Avoided N ₂ O	Electric	Residential	Heat Pump	Tons
[51]	Avoided N ₂ O	Electric	Commercial	Water Heater	Tons
[52]	Avoided CH ₄	Gas	Residential	Furnace	Tons
[53]	Avoided CH ₄	Gas	Residential	Water Heater	Tons
[54]	Avoided CH ₄	Gas	Commercial	Water Heater	Tons
[55]	Avoided CH ₄	Electric	Residential	Furnace	Tons
[56]	Avoided CH ₄	Electric	Residential	Water Heater	Tons
[57]	Avoided CH ₄	Electric	Residential	Heat Pump	Tons
[58]	Avoided CH ₄	Electric	Commercial	Water Heater	Tons



Total Savings (\$)

Note	Price Series	Class	Unit	2025	2026	2027
[1]	Wholesale Electricity Prices -->	All	\$/kWh			
[2]	Wholesale Natural Gas Prices -->	All	\$/Therm			
[3]	Retail Electricity Prices -->	Residential	\$/kWh			
[4]	Retail Natural Gas Prices -->	Residential	\$/Therm			
[5]	Retail Electricity Prices -->	Commercial	\$/kWh			
[6]	Retail Natural Gas Prices -->	Commercial	\$/Therm			
[7]	CO ₂ Prices -->	All	\$/Ton			
[8]	CH ₄ Prices -->	All	\$/Ton			
[9]	N ₂ O Prices -->	All	\$/Ton			

Note	Savings Type	Fuel	Customer Class	Program	Physical Units
[10]	Avoided Energy	Gas	Residential	Furnace	Therms
[11]	Avoided Energy	Gas	Residential	Water Heater	Therms
[12]	Avoided Energy	Gas	Commercial	Water Heater	Therms
[13]	Avoided Energy	Electric	Residential	Furnace	kWh
[14]	Avoided Energy	Electric	Residential	Water Heater	kWh
[15]	Avoided Energy	Electric	Residential	Heat Pump	kWh
[16]	Avoided Energy	Electric	Commercial	Water Heater	kWh
[17]	Bill Savings	Gas	Residential	Furnace	Therms
[18]	Bill Savings	Gas	Residential	Water Heater	Therms
[19]	Bill Savings	Gas	Commercial	Water Heater	Therms
[20]	Bill Savings	Electric	Residential	Furnace	kWh
[21]	Bill Savings	Electric	Residential	Water Heater	kWh
[22]	Bill Savings	Electric	Residential	Heat Pump	kWh
[23]	Bill Savings	Electric	Commercial	Water Heater	kWh
[24]	Avoided Distribution Capacity	Gas	Residential	Furnace	Therms
[25]	Avoided Distribution Capacity	Gas	Residential	Water Heater	Therms
[26]	Avoided Distribution Capacity	Gas	Commercial	Water Heater	Therms
[27]	Avoided Distribution Capacity	Electric	Residential	Furnace	kW
[28]	Avoided Distribution Capacity	Electric	Residential	Water Heater	kW
[29]	Avoided Distribution Capacity	Electric	Residential	Heat Pump	kW
[30]	Avoided Distribution Capacity	Electric	Commercial	Water Heater	kW
[31]	Avoided Generation Capacity	Gas	Residential	Furnace	Therms
[32]	Avoided Generation Capacity	Gas	Residential	Water Heater	Therms
[33]	Avoided Generation Capacity	Gas	Commercial	Water Heater	Therms
[34]	Avoided Generation Capacity	Electric	Residential	Furnace	kW
[35]	Avoided Generation Capacity	Electric	Residential	Water Heater	kW
[36]	Avoided Generation Capacity	Electric	Residential	Heat Pump	kW
[37]	Avoided Generation Capacity	Electric	Commercial	Water Heater	kW
[38]	Avoided CO ₂	Gas	Residential	Furnace	Tons
[39]	Avoided CO ₂	Gas	Residential	Water Heater	Tons
[40]	Avoided CO ₂	Gas	Commercial	Water Heater	Tons
[41]	Avoided CO ₂	Electric	Residential	Furnace	Tons
[42]	Avoided CO ₂	Electric	Residential	Water Heater	Tons
[43]	Avoided CO ₂	Electric	Residential	Heat Pump	Tons
[44]	Avoided CO ₂	Electric	Commercial	Water Heater	Tons
[45]	Avoided N ₂ O	Gas	Residential	Furnace	Tons
[46]	Avoided N ₂ O	Gas	Residential	Water Heater	Tons
[47]	Avoided N ₂ O	Gas	Commercial	Water Heater	Tons
[48]	Avoided N ₂ O	Electric	Residential	Furnace	Tons
[49]	Avoided N ₂ O	Electric	Residential	Water Heater	Tons
[50]	Avoided N ₂ O	Electric	Residential	Heat Pump	Tons
[51]	Avoided N ₂ O	Electric	Commercial	Water Heater	Tons
[52]	Avoided CH ₄	Gas	Residential	Furnace	Tons
[53]	Avoided CH ₄	Gas	Residential	Water Heater	Tons
[54]	Avoided CH ₄	Gas	Commercial	Water Heater	Tons
[55]	Avoided CH ₄	Electric	Residential	Furnace	Tons
[56]	Avoided CH ₄	Electric	Residential	Water Heater	Tons
[57]	Avoided CH ₄	Electric	Residential	Heat Pump	Tons
[58]	Avoided CH ₄	Electric	Commercial	Water Heater	Tons

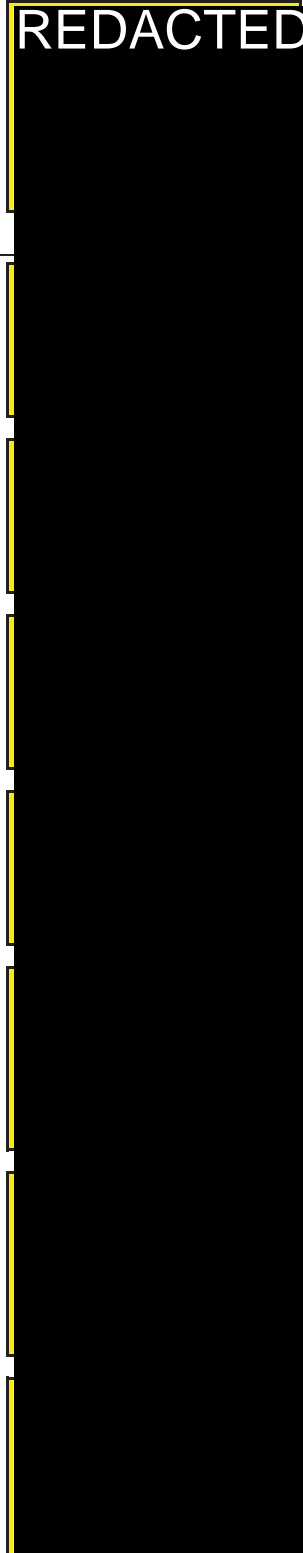
REDACTED

REDACTED

Total Savings (\$)

Note	Price Series	Class	Unit	2028	2029	2030
[1]	Wholesale Electricity Prices -->	All	\$/kWh			
[2]	Wholesale Natural Gas Prices -->	All	\$/Therm			
[3]	Retail Electricity Prices -->	Residential	\$/kWh			
[4]	Retail Natural Gas Prices -->	Residential	\$/Therm			
[5]	Retail Electricity Prices -->	Commercial	\$/kWh			
[6]	Retail Natural Gas Prices -->	Commercial	\$/Therm			
[7]	CO ₂ Prices -->	All	\$/Ton			
[8]	CH ₄ Prices -->	All	\$/Ton			
[9]	N ₂ O Prices -->	All	\$/Ton			

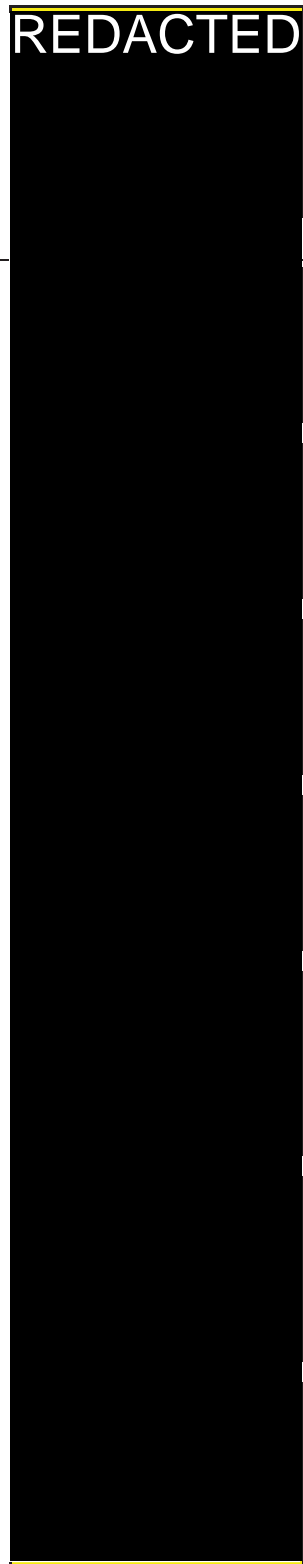
Note	Savings Type	Fuel	Customer Class	Program	Physical Units
[10]	Avoided Energy	Gas	Residential	Furnace	Therms
[11]	Avoided Energy	Gas	Residential	Water Heater	Therms
[12]	Avoided Energy	Gas	Commercial	Water Heater	Therms
[13]	Avoided Energy	Electric	Residential	Furnace	kWh
[14]	Avoided Energy	Electric	Residential	Water Heater	kWh
[15]	Avoided Energy	Electric	Residential	Heat Pump	kWh
[16]	Avoided Energy	Electric	Commercial	Water Heater	kWh
[17]	Bill Savings	Gas	Residential	Furnace	Therms
[18]	Bill Savings	Gas	Residential	Water Heater	Therms
[19]	Bill Savings	Gas	Commercial	Water Heater	Therms
[20]	Bill Savings	Electric	Residential	Furnace	kWh
[21]	Bill Savings	Electric	Residential	Water Heater	kWh
[22]	Bill Savings	Electric	Residential	Heat Pump	kWh
[23]	Bill Savings	Electric	Commercial	Water Heater	kWh
[24]	Avoided Distribution Capacity	Gas	Residential	Furnace	Therms
[25]	Avoided Distribution Capacity	Gas	Residential	Water Heater	Therms
[26]	Avoided Distribution Capacity	Gas	Commercial	Water Heater	Therms
[27]	Avoided Distribution Capacity	Electric	Residential	Furnace	kW
[28]	Avoided Distribution Capacity	Electric	Residential	Water Heater	kW
[29]	Avoided Distribution Capacity	Electric	Residential	Heat Pump	kW
[30]	Avoided Distribution Capacity	Electric	Commercial	Water Heater	kW
[31]	Avoided Generation Capacity	Gas	Residential	Furnace	Therms
[32]	Avoided Generation Capacity	Gas	Residential	Water Heater	Therms
[33]	Avoided Generation Capacity	Gas	Commercial	Water Heater	Therms
[34]	Avoided Generation Capacity	Electric	Residential	Furnace	kW
[35]	Avoided Generation Capacity	Electric	Residential	Water Heater	kW
[36]	Avoided Generation Capacity	Electric	Residential	Heat Pump	kW
[37]	Avoided Generation Capacity	Electric	Commercial	Water Heater	kW
[38]	Avoided CO ₂	Gas	Residential	Furnace	Tons
[39]	Avoided CO ₂	Gas	Residential	Water Heater	Tons
[40]	Avoided CO ₂	Gas	Commercial	Water Heater	Tons
[41]	Avoided CO ₂	Electric	Residential	Furnace	Tons
[42]	Avoided CO ₂	Electric	Residential	Water Heater	Tons
[43]	Avoided CO ₂	Electric	Residential	Heat Pump	Tons
[44]	Avoided CO ₂	Electric	Commercial	Water Heater	Tons
[45]	Avoided N ₂ O	Gas	Residential	Furnace	Tons
[46]	Avoided N ₂ O	Gas	Residential	Water Heater	Tons
[47]	Avoided N ₂ O	Gas	Commercial	Water Heater	Tons
[48]	Avoided N ₂ O	Electric	Residential	Furnace	Tons
[49]	Avoided N ₂ O	Electric	Residential	Water Heater	Tons
[50]	Avoided N ₂ O	Electric	Residential	Heat Pump	Tons
[51]	Avoided N ₂ O	Electric	Commercial	Water Heater	Tons
[52]	Avoided CH ₄	Gas	Residential	Furnace	Tons
[53]	Avoided CH ₄	Gas	Residential	Water Heater	Tons
[54]	Avoided CH ₄	Gas	Commercial	Water Heater	Tons
[55]	Avoided CH ₄	Electric	Residential	Furnace	Tons
[56]	Avoided CH ₄	Electric	Residential	Water Heater	Tons
[57]	Avoided CH ₄	Electric	Residential	Heat Pump	Tons
[58]	Avoided CH ₄	Electric	Commercial	Water Heater	Tons



Total Savings (\$)

Note	Price Series	Class	Unit	2031	2032	2033
[1]	Wholesale Electricity Prices -->	All	\$/kWh			
[2]	Wholesale Natural Gas Prices -->	All	\$/Therm			
[3]	Retail Electricity Prices -->	Residential	\$/kWh			
[4]	Retail Natural Gas Prices -->	Residential	\$/Therm			
[5]	Retail Electricity Prices -->	Commercial	\$/kWh			
[6]	Retail Natural Gas Prices -->	Commercial	\$/Therm			
[7]	CO ₂ Prices -->	All	\$/Ton			
[8]	CH ₄ Prices -->	All	\$/Ton			
[9]	N ₂ O Prices -->	All	\$/Ton			

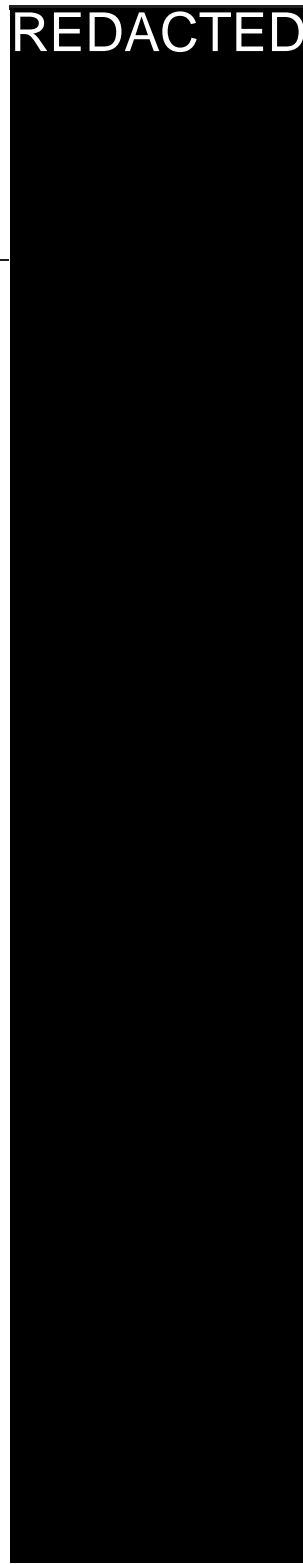
Note	Savings Type	Fuel	Customer Class	Program	Physical Units
[10]	Avoided Energy	Gas	Residential	Furnace	Therms
[11]	Avoided Energy	Gas	Residential	Water Heater	Therms
[12]	Avoided Energy	Gas	Commercial	Water Heater	Therms
[13]	Avoided Energy	Electric	Residential	Furnace	kWh
[14]	Avoided Energy	Electric	Residential	Water Heater	kWh
[15]	Avoided Energy	Electric	Residential	Heat Pump	kWh
[16]	Avoided Energy	Electric	Commercial	Water Heater	kWh
[17]	Bill Savings	Gas	Residential	Furnace	Therms
[18]	Bill Savings	Gas	Residential	Water Heater	Therms
[19]	Bill Savings	Gas	Commercial	Water Heater	Therms
[20]	Bill Savings	Electric	Residential	Furnace	kWh
[21]	Bill Savings	Electric	Residential	Water Heater	kWh
[22]	Bill Savings	Electric	Residential	Heat Pump	kWh
[23]	Bill Savings	Electric	Commercial	Water Heater	kWh
[24]	Avoided Distribution Capacity	Gas	Residential	Furnace	Therms
[25]	Avoided Distribution Capacity	Gas	Residential	Water Heater	Therms
[26]	Avoided Distribution Capacity	Gas	Commercial	Water Heater	Therms
[27]	Avoided Distribution Capacity	Electric	Residential	Furnace	kW
[28]	Avoided Distribution Capacity	Electric	Residential	Water Heater	kW
[29]	Avoided Distribution Capacity	Electric	Residential	Heat Pump	kW
[30]	Avoided Distribution Capacity	Electric	Commercial	Water Heater	kW
[31]	Avoided Generation Capacity	Gas	Residential	Furnace	Therms
[32]	Avoided Generation Capacity	Gas	Residential	Water Heater	Therms
[33]	Avoided Generation Capacity	Gas	Commercial	Water Heater	Therms
[34]	Avoided Generation Capacity	Electric	Residential	Furnace	kW
[35]	Avoided Generation Capacity	Electric	Residential	Water Heater	kW
[36]	Avoided Generation Capacity	Electric	Residential	Heat Pump	kW
[37]	Avoided Generation Capacity	Electric	Commercial	Water Heater	kW
[38]	Avoided CO ₂	Gas	Residential	Furnace	Tons
[39]	Avoided CO ₂	Gas	Residential	Water Heater	Tons
[40]	Avoided CO ₂	Gas	Commercial	Water Heater	Tons
[41]	Avoided CO ₂	Electric	Residential	Furnace	Tons
[42]	Avoided CO ₂	Electric	Residential	Water Heater	Tons
[43]	Avoided CO ₂	Electric	Residential	Heat Pump	Tons
[44]	Avoided CO ₂	Electric	Commercial	Water Heater	Tons
[45]	Avoided N ₂ O	Gas	Residential	Furnace	Tons
[46]	Avoided N ₂ O	Gas	Residential	Water Heater	Tons
[47]	Avoided N ₂ O	Gas	Commercial	Water Heater	Tons
[48]	Avoided N ₂ O	Electric	Residential	Furnace	Tons
[49]	Avoided N ₂ O	Electric	Residential	Water Heater	Tons
[50]	Avoided N ₂ O	Electric	Residential	Heat Pump	Tons
[51]	Avoided N ₂ O	Electric	Commercial	Water Heater	Tons
[52]	Avoided CH ₄	Gas	Residential	Furnace	Tons
[53]	Avoided CH ₄	Gas	Residential	Water Heater	Tons
[54]	Avoided CH ₄	Gas	Commercial	Water Heater	Tons
[55]	Avoided CH ₄	Electric	Residential	Furnace	Tons
[56]	Avoided CH ₄	Electric	Residential	Water Heater	Tons
[57]	Avoided CH ₄	Electric	Residential	Heat Pump	Tons
[58]	Avoided CH ₄	Electric	Commercial	Water Heater	Tons



Total Savings (\$)

Note	Price Series	Class	Unit	2034	2035	2036
[1]	Wholesale Electricity Prices -->	All	\$/kWh			
[2]	Wholesale Natural Gas Prices -->	All	\$/Therm			
[3]	Retail Electricity Prices -->	Residential	\$/kWh			
[4]	Retail Natural Gas Prices -->	Residential	\$/Therm			
[5]	Retail Electricity Prices -->	Commercial	\$/kWh			
[6]	Retail Natural Gas Prices -->	Commercial	\$/Therm			
[7]	CO ₂ Prices -->	All	\$/Ton			
[8]	CH ₄ Prices -->	All	\$/Ton			
[9]	N ₂ O Prices -->	All	\$/Ton			

Note	Savings Type	Fuel	Customer Class	Program	Physical Units
[10]	Avoided Energy	Gas	Residential	Furnace	Therms
[11]	Avoided Energy	Gas	Residential	Water Heater	Therms
[12]	Avoided Energy	Gas	Commercial	Water Heater	Therms
[13]	Avoided Energy	Electric	Residential	Furnace	kWh
[14]	Avoided Energy	Electric	Residential	Water Heater	kWh
[15]	Avoided Energy	Electric	Residential	Heat Pump	kWh
[16]	Avoided Energy	Electric	Commercial	Water Heater	kWh
[17]	Bill Savings	Gas	Residential	Furnace	Therms
[18]	Bill Savings	Gas	Residential	Water Heater	Therms
[19]	Bill Savings	Gas	Commercial	Water Heater	Therms
[20]	Bill Savings	Electric	Residential	Furnace	kWh
[21]	Bill Savings	Electric	Residential	Water Heater	kWh
[22]	Bill Savings	Electric	Residential	Heat Pump	kWh
[23]	Bill Savings	Electric	Commercial	Water Heater	kWh
[24]	Avoided Distribution Capacity	Gas	Residential	Furnace	Therms
[25]	Avoided Distribution Capacity	Gas	Residential	Water Heater	Therms
[26]	Avoided Distribution Capacity	Gas	Commercial	Water Heater	Therms
[27]	Avoided Distribution Capacity	Electric	Residential	Furnace	kW
[28]	Avoided Distribution Capacity	Electric	Residential	Water Heater	kW
[29]	Avoided Distribution Capacity	Electric	Residential	Heat Pump	kW
[30]	Avoided Distribution Capacity	Electric	Commercial	Water Heater	kW
[31]	Avoided Generation Capacity	Gas	Residential	Furnace	Therms
[32]	Avoided Generation Capacity	Gas	Residential	Water Heater	Therms
[33]	Avoided Generation Capacity	Gas	Commercial	Water Heater	Therms
[34]	Avoided Generation Capacity	Electric	Residential	Furnace	kW
[35]	Avoided Generation Capacity	Electric	Residential	Water Heater	kW
[36]	Avoided Generation Capacity	Electric	Residential	Heat Pump	kW
[37]	Avoided Generation Capacity	Electric	Commercial	Water Heater	kW
[38]	Avoided CO ₂	Gas	Residential	Furnace	Tons
[39]	Avoided CO ₂	Gas	Residential	Water Heater	Tons
[40]	Avoided CO ₂	Gas	Commercial	Water Heater	Tons
[41]	Avoided CO ₂	Electric	Residential	Furnace	Tons
[42]	Avoided CO ₂	Electric	Residential	Water Heater	Tons
[43]	Avoided CO ₂	Electric	Residential	Heat Pump	Tons
[44]	Avoided CO ₂	Electric	Commercial	Water Heater	Tons
[45]	Avoided N ₂ O	Gas	Residential	Furnace	Tons
[46]	Avoided N ₂ O	Gas	Residential	Water Heater	Tons
[47]	Avoided N ₂ O	Gas	Commercial	Water Heater	Tons
[48]	Avoided N ₂ O	Electric	Residential	Furnace	Tons
[49]	Avoided N ₂ O	Electric	Residential	Water Heater	Tons
[50]	Avoided N ₂ O	Electric	Residential	Heat Pump	Tons
[51]	Avoided N ₂ O	Electric	Commercial	Water Heater	Tons
[52]	Avoided CH ₄	Gas	Residential	Furnace	Tons
[53]	Avoided CH ₄	Gas	Residential	Water Heater	Tons
[54]	Avoided CH ₄	Gas	Commercial	Water Heater	Tons
[55]	Avoided CH ₄	Electric	Residential	Furnace	Tons
[56]	Avoided CH ₄	Electric	Residential	Water Heater	Tons
[57]	Avoided CH ₄	Electric	Residential	Heat Pump	Tons
[58]	Avoided CH ₄	Electric	Commercial	Water Heater	Tons



Total Savings by Source (units)

Note	Savings Type	Units	2016	2017	2018	2019	2020
[1]	Avoided Energy	kWh	REDACTED				
[2]	Avoided Energy	Therms					
[3]	Avoided Distribution Capacity	kWh					
[4]	Avoided Distribution Capacity	Therms					
[5]	Avoided Generation Capacity	kWh					
[6]	Avoided Generation Capacity	Therms					
[7]	Avoided CO ₂	Tons					
[8]	Avoided N ₂ O	Tons					
[9]	Avoided CH ₄	Tons					
[10]	Avoided N ₂ O (Carbon equivalent)	Tons					
[11]	Avoided CH ₄ (Carbon equivalent)	Tons					
[12]	Total Carbon Equivalents	Tons					

Total Savings by Source (units)

Note	Savings Type	2021	2022	2023	2024	2025	2026
[1]	Avoided Energy	REDACTED					
[2]	Avoided Energy						
[3]	Avoided Distribution Capacity						
[4]	Avoided Distribution Capacity						
[5]	Avoided Generation Capacity						
[6]	Avoided Generation Capacity						
[7]	Avoided CO ₂						
[8]	Avoided N ₂ O						
[9]	Avoided CH ₄						
[10]	Avoided N ₂ O (Carbon equivalent)						
[11]	Avoided CH ₄ (Carbon equivalent)						
[12]	Total Carbon Equivalents						

Total Savings by Source (units)

Note	Savings Type	2027	2028	2029	2030	2031	2032
[1]	Avoided Energy	<div style="background-color: black; color: white; text-align: center; padding: 50px;"> REDACTED </div>					
[2]	Avoided Energy						
[3]	Avoided Distribution Capacity						
[4]	Avoided Distribution Capacity						
[5]	Avoided Generation Capacity						
[6]	Avoided Generation Capacity						
[7]	Avoided CO ₂						
[8]	Avoided N ₂ O						
[9]	Avoided CH ₄						
[10]	Avoided N ₂ O (Carbon equivalent)						
[11]	Avoided CH ₄ (Carbon equivalent)						
[12]	Total Carbon Equivalents						

Total Savings by Source (units)

Note	Savings Type	2033	2034	2035	2036
[1]	Avoided Energy	REDACTED			
[2]	Avoided Energy				
[3]	Avoided Distribution Capacity				
[4]	Avoided Distribution Capacity				
[5]	Avoided Generation Capacity				
[6]	Avoided Generation Capacity				
[7]	Avoided CO ₂				
[8]	Avoided N ₂ O				
[9]	Avoided CH ₄				
[10]	Avoided N ₂ O (Carbon equivalent)				
[11]	Avoided CH ₄ (Carbon equivalent)				
[12]	Total Carbon Equivalents				

Total Savings (units)

Note	Savings Type	Fuel	Customer Class	Program	Units	2016	2017
[1]	Avoided Energy	Gas	Residential	Furnace	Therms	REDACTED	REDACTED
[2]	Avoided Energy	Gas	Residential	Water Heater	Therms		
[3]	Avoided Energy	Gas	Commercial	Water Heater	Therms		
[4]	Avoided Energy	Electric	Residential	Furnace	kWh		
[5]	Avoided Energy	Electric	Residential	Water Heater	kWh		
[6]	Avoided Energy	Electric	Residential	Heat Pump	kWh		
[7]	Avoided Energy	Electric	Commercial	Water Heater	kWh		
[8]	Avoided Distribution Capacity	Gas	Residential	Furnace	Therms		
[9]	Avoided Distribution Capacity	Gas	Residential	Water Heater	Therms		
[10]	Avoided Distribution Capacity	Gas	Commercial	Water Heater	Therms		
[11]	Avoided Distribution Capacity	Electric	Residential	Furnace	kW		
[12]	Avoided Distribution Capacity	Electric	Residential	Water Heater	kW		
[13]	Avoided Distribution Capacity	Electric	Residential	Heat Pump	kW		
[14]	Avoided Distribution Capacity	Electric	Commercial	Water Heater	kW		
[15]	Avoided Generation Capacity	Gas	Residential	Furnace	Therms	REDACTED	REDACTED
[16]	Avoided Generation Capacity	Gas	Residential	Water Heater	Therms		
[17]	Avoided Generation Capacity	Gas	Commercial	Water Heater	Therms		
[18]	Avoided Generation Capacity	Electric	Residential	Furnace	kW		
[19]	Avoided Generation Capacity	Electric	Residential	Water Heater	kW		
[20]	Avoided Generation Capacity	Electric	Residential	Heat Pump	kW		
[21]	Avoided Generation Capacity	Electric	Commercial	Water Heater	kW		
[22]	Avoided CO ₂	Gas	Residential	Furnace	Tons	REDACTED	REDACTED
[23]	Avoided CO ₂	Gas	Residential	Water Heater	Tons		
[24]	Avoided CO ₂	Gas	Commercial	Water Heater	Tons		
[25]	Avoided CO ₂	Electric	Residential	Furnace	Tons		
[26]	Avoided CO ₂	Electric	Residential	Water Heater	Tons		
[27]	Avoided CO ₂	Electric	Residential	Heat Pump	Tons		
[28]	Avoided CO ₂	Electric	Commercial	Water Heater	Tons		
[29]	Avoided N ₂ O	Gas	Residential	Furnace	Tons	REDACTED	REDACTED
[30]	Avoided N ₂ O	Gas	Residential	Water Heater	Tons		
[31]	Avoided N ₂ O	Gas	Commercial	Water Heater	Tons		
[32]	Avoided N ₂ O	Electric	Residential	Furnace	Tons		
[33]	Avoided N ₂ O	Electric	Residential	Water Heater	Tons		
[34]	Avoided N ₂ O	Electric	Residential	Heat Pump	Tons		
[35]	Avoided N ₂ O	Electric	Commercial	Water Heater	Tons		
[36]	Avoided CH ₄	Gas	Residential	Furnace	Tons	REDACTED	REDACTED
[37]	Avoided CH ₄	Gas	Residential	Water Heater	Tons		
[38]	Avoided CH ₄	Gas	Commercial	Water Heater	Tons		
[39]	Avoided CH ₄	Electric	Residential	Furnace	Tons		
[40]	Avoided CH ₄	Electric	Residential	Water Heater	Tons		
[41]	Avoided CH ₄	Electric	Residential	Heat Pump	Tons		
[42]	Avoided CH ₄	Electric	Commercial	Water Heater	Tons		

Total Savings (units)

Note	Savings Type	Fuel	Customer Class	Program	Units	2018	2019
[1]	Avoided Energy	Gas	Residential	Furnace	Therms		
[2]	Avoided Energy	Gas	Residential	Water Heater	Therms		
[3]	Avoided Energy	Gas	Commercial	Water Heater	Therms		
[4]	Avoided Energy	Electric	Residential	Furnace	kWh		
[5]	Avoided Energy	Electric	Residential	Water Heater	kWh		
[6]	Avoided Energy	Electric	Residential	Heat Pump	kWh		
[7]	Avoided Energy	Electric	Commercial	Water Heater	kWh		
[8]	Avoided Distribution Capacity	Gas	Residential	Furnace	Therms		
[9]	Avoided Distribution Capacity	Gas	Residential	Water Heater	Therms		
[10]	Avoided Distribution Capacity	Gas	Commercial	Water Heater	Therms		
[11]	Avoided Distribution Capacity	Electric	Residential	Furnace	kW		
[12]	Avoided Distribution Capacity	Electric	Residential	Water Heater	kW		
[13]	Avoided Distribution Capacity	Electric	Residential	Heat Pump	kW		
[14]	Avoided Distribution Capacity	Electric	Commercial	Water Heater	kW		
[15]	Avoided Generation Capacity	Gas	Residential	Furnace	Therms		
[16]	Avoided Generation Capacity	Gas	Residential	Water Heater	Therms		
[17]	Avoided Generation Capacity	Gas	Commercial	Water Heater	Therms		
[18]	Avoided Generation Capacity	Electric	Residential	Furnace	kW		
[19]	Avoided Generation Capacity	Electric	Residential	Water Heater	kW		
[20]	Avoided Generation Capacity	Electric	Residential	Heat Pump	kW		
[21]	Avoided Generation Capacity	Electric	Commercial	Water Heater	kW		
[22]	Avoided CO ₂	Gas	Residential	Furnace	Tons		
[23]	Avoided CO ₂	Gas	Residential	Water Heater	Tons		
[24]	Avoided CO ₂	Gas	Commercial	Water Heater	Tons		
[25]	Avoided CO ₂	Electric	Residential	Furnace	Tons		
[26]	Avoided CO ₂	Electric	Residential	Water Heater	Tons		
[27]	Avoided CO ₂	Electric	Residential	Heat Pump	Tons		
[28]	Avoided CO ₂	Electric	Commercial	Water Heater	Tons		
[29]	Avoided N ₂ O	Gas	Residential	Furnace	Tons		
[30]	Avoided N ₂ O	Gas	Residential	Water Heater	Tons		
[31]	Avoided N ₂ O	Gas	Commercial	Water Heater	Tons		
[32]	Avoided N ₂ O	Electric	Residential	Furnace	Tons		
[33]	Avoided N ₂ O	Electric	Residential	Water Heater	Tons		
[34]	Avoided N ₂ O	Electric	Residential	Heat Pump	Tons		
[35]	Avoided N ₂ O	Electric	Commercial	Water Heater	Tons		
[36]	Avoided CH ₄	Gas	Residential	Furnace	Tons		
[37]	Avoided CH ₄	Gas	Residential	Water Heater	Tons		
[38]	Avoided CH ₄	Gas	Commercial	Water Heater	Tons		
[39]	Avoided CH ₄	Electric	Residential	Furnace	Tons		
[40]	Avoided CH ₄	Electric	Residential	Water Heater	Tons		
[41]	Avoided CH ₄	Electric	Residential	Heat Pump	Tons		
[42]	Avoided CH ₄	Electric	Commercial	Water Heater	Tons		

REDACTED

REDACTED

Total Savings (units)

Note	Savings Type	Fuel	Customer Class	Program	Units	2020	2021
[1]	Avoided Energy	Gas	Residential	Furnace	Therms		
[2]	Avoided Energy	Gas	Residential	Water Heater	Therms		
[3]	Avoided Energy	Gas	Commercial	Water Heater	Therms		
[4]	Avoided Energy	Electric	Residential	Furnace	kWh		
[5]	Avoided Energy	Electric	Residential	Water Heater	kWh		
[6]	Avoided Energy	Electric	Residential	Heat Pump	kWh		
[7]	Avoided Energy	Electric	Commercial	Water Heater	kWh		
[8]	Avoided Distribution Capacity	Gas	Residential	Furnace	Therms		
[9]	Avoided Distribution Capacity	Gas	Residential	Water Heater	Therms		
[10]	Avoided Distribution Capacity	Gas	Commercial	Water Heater	Therms		
[11]	Avoided Distribution Capacity	Electric	Residential	Furnace	kW		
[12]	Avoided Distribution Capacity	Electric	Residential	Water Heater	kW		
[13]	Avoided Distribution Capacity	Electric	Residential	Heat Pump	kW		
[14]	Avoided Distribution Capacity	Electric	Commercial	Water Heater	kW		
[15]	Avoided Generation Capacity	Gas	Residential	Furnace	Therms		
[16]	Avoided Generation Capacity	Gas	Residential	Water Heater	Therms		
[17]	Avoided Generation Capacity	Gas	Commercial	Water Heater	Therms		
[18]	Avoided Generation Capacity	Electric	Residential	Furnace	kW		
[19]	Avoided Generation Capacity	Electric	Residential	Water Heater	kW		
[20]	Avoided Generation Capacity	Electric	Residential	Heat Pump	kW		
[21]	Avoided Generation Capacity	Electric	Commercial	Water Heater	kW		
[22]	Avoided CO ₂	Gas	Residential	Furnace	Tons		
[23]	Avoided CO ₂	Gas	Residential	Water Heater	Tons		
[24]	Avoided CO ₂	Gas	Commercial	Water Heater	Tons		
[25]	Avoided CO ₂	Electric	Residential	Furnace	Tons		
[26]	Avoided CO ₂	Electric	Residential	Water Heater	Tons		
[27]	Avoided CO ₂	Electric	Residential	Heat Pump	Tons		
[28]	Avoided CO ₂	Electric	Commercial	Water Heater	Tons		
[29]	Avoided N ₂ O	Gas	Residential	Furnace	Tons		
[30]	Avoided N ₂ O	Gas	Residential	Water Heater	Tons		
[31]	Avoided N ₂ O	Gas	Commercial	Water Heater	Tons		
[32]	Avoided N ₂ O	Electric	Residential	Furnace	Tons		
[33]	Avoided N ₂ O	Electric	Residential	Water Heater	Tons		
[34]	Avoided N ₂ O	Electric	Residential	Heat Pump	Tons		
[35]	Avoided N ₂ O	Electric	Commercial	Water Heater	Tons		
[36]	Avoided CH ₄	Gas	Residential	Furnace	Tons		
[37]	Avoided CH ₄	Gas	Residential	Water Heater	Tons		
[38]	Avoided CH ₄	Gas	Commercial	Water Heater	Tons		
[39]	Avoided CH ₄	Electric	Residential	Furnace	Tons		
[40]	Avoided CH ₄	Electric	Residential	Water Heater	Tons		
[41]	Avoided CH ₄	Electric	Residential	Heat Pump	Tons		
[42]	Avoided CH ₄	Electric	Commercial	Water Heater	Tons		

REDACTED

REDACTED

Total Savings (units)

Note	Savings Type	Fuel	Customer Class	Program	Units	2022	2023
[1]	Avoided Energy	Gas	Residential	Furnace	Therms	REDACTED	
[2]	Avoided Energy	Gas	Residential	Water Heater	Therms		
[3]	Avoided Energy	Gas	Commercial	Water Heater	Therms		
[4]	Avoided Energy	Electric	Residential	Furnace	kWh		
[5]	Avoided Energy	Electric	Residential	Water Heater	kWh		
[6]	Avoided Energy	Electric	Residential	Heat Pump	kWh		
[7]	Avoided Energy	Electric	Commercial	Water Heater	kWh		
[8]	Avoided Distribution Capacity	Gas	Residential	Furnace	Therms	REDACTED	
[9]	Avoided Distribution Capacity	Gas	Residential	Water Heater	Therms		
[10]	Avoided Distribution Capacity	Gas	Commercial	Water Heater	Therms		
[11]	Avoided Distribution Capacity	Electric	Residential	Furnace	kW		
[12]	Avoided Distribution Capacity	Electric	Residential	Water Heater	kW		
[13]	Avoided Distribution Capacity	Electric	Residential	Heat Pump	kW		
[14]	Avoided Distribution Capacity	Electric	Commercial	Water Heater	kW		
[15]	Avoided Generation Capacity	Gas	Residential	Furnace	Therms	REDACTED	
[16]	Avoided Generation Capacity	Gas	Residential	Water Heater	Therms		
[17]	Avoided Generation Capacity	Gas	Commercial	Water Heater	Therms		
[18]	Avoided Generation Capacity	Electric	Residential	Furnace	kW		
[19]	Avoided Generation Capacity	Electric	Residential	Water Heater	kW		
[20]	Avoided Generation Capacity	Electric	Residential	Heat Pump	kW		
[21]	Avoided Generation Capacity	Electric	Commercial	Water Heater	kW		
[22]	Avoided CO ₂	Gas	Residential	Furnace	Tons	REDACTED	
[23]	Avoided CO ₂	Gas	Residential	Water Heater	Tons		
[24]	Avoided CO ₂	Gas	Commercial	Water Heater	Tons		
[25]	Avoided CO ₂	Electric	Residential	Furnace	Tons		
[26]	Avoided CO ₂	Electric	Residential	Water Heater	Tons		
[27]	Avoided CO ₂	Electric	Residential	Heat Pump	Tons		
[28]	Avoided CO ₂	Electric	Commercial	Water Heater	Tons		
[29]	Avoided N ₂ O	Gas	Residential	Furnace	Tons	REDACTED	
[30]	Avoided N ₂ O	Gas	Residential	Water Heater	Tons		
[31]	Avoided N ₂ O	Gas	Commercial	Water Heater	Tons		
[32]	Avoided N ₂ O	Electric	Residential	Furnace	Tons		
[33]	Avoided N ₂ O	Electric	Residential	Water Heater	Tons		
[34]	Avoided N ₂ O	Electric	Residential	Heat Pump	Tons		
[35]	Avoided N ₂ O	Electric	Commercial	Water Heater	Tons		
[36]	Avoided CH ₄	Gas	Residential	Furnace	Tons	REDACTED	
[37]	Avoided CH ₄	Gas	Residential	Water Heater	Tons		
[38]	Avoided CH ₄	Gas	Commercial	Water Heater	Tons		
[39]	Avoided CH ₄	Electric	Residential	Furnace	Tons		
[40]	Avoided CH ₄	Electric	Residential	Water Heater	Tons		
[41]	Avoided CH ₄	Electric	Residential	Heat Pump	Tons		
[42]	Avoided CH ₄	Electric	Commercial	Water Heater	Tons		

Total Savings (units)

Note	Savings Type	Fuel	Customer Class	Program	Units	2024	2025
[1]	Avoided Energy	Gas	Residential	Furnace	Therms	REDACTED	REDACTED
[2]	Avoided Energy	Gas	Residential	Water Heater	Therms		
[3]	Avoided Energy	Gas	Commercial	Water Heater	Therms		
[4]	Avoided Energy	Electric	Residential	Furnace	kWh		
[5]	Avoided Energy	Electric	Residential	Water Heater	kWh		
[6]	Avoided Energy	Electric	Residential	Heat Pump	kWh		
[7]	Avoided Energy	Electric	Commercial	Water Heater	kWh		
[8]	Avoided Distribution Capacity	Gas	Residential	Furnace	Therms	REDACTED	REDACTED
[9]	Avoided Distribution Capacity	Gas	Residential	Water Heater	Therms		
[10]	Avoided Distribution Capacity	Gas	Commercial	Water Heater	Therms		
[11]	Avoided Distribution Capacity	Electric	Residential	Furnace	kW		
[12]	Avoided Distribution Capacity	Electric	Residential	Water Heater	kW		
[13]	Avoided Distribution Capacity	Electric	Residential	Heat Pump	kW		
[14]	Avoided Distribution Capacity	Electric	Commercial	Water Heater	kW		
[15]	Avoided Generation Capacity	Gas	Residential	Furnace	Therms		
[16]	Avoided Generation Capacity	Gas	Residential	Water Heater	Therms		
[17]	Avoided Generation Capacity	Gas	Commercial	Water Heater	Therms		
[18]	Avoided Generation Capacity	Electric	Residential	Furnace	kW		
[19]	Avoided Generation Capacity	Electric	Residential	Water Heater	kW		
[20]	Avoided Generation Capacity	Electric	Residential	Heat Pump	kW		
[21]	Avoided Generation Capacity	Electric	Commercial	Water Heater	kW		
[22]	Avoided CO ₂	Gas	Residential	Furnace	Tons	REDACTED	REDACTED
[23]	Avoided CO ₂	Gas	Residential	Water Heater	Tons		
[24]	Avoided CO ₂	Gas	Commercial	Water Heater	Tons		
[25]	Avoided CO ₂	Electric	Residential	Furnace	Tons		
[26]	Avoided CO ₂	Electric	Residential	Water Heater	Tons		
[27]	Avoided CO ₂	Electric	Residential	Heat Pump	Tons		
[28]	Avoided CO ₂	Electric	Commercial	Water Heater	Tons		
[29]	Avoided N ₂ O	Gas	Residential	Furnace	Tons	REDACTED	REDACTED
[30]	Avoided N ₂ O	Gas	Residential	Water Heater	Tons		
[31]	Avoided N ₂ O	Gas	Commercial	Water Heater	Tons		
[32]	Avoided N ₂ O	Electric	Residential	Furnace	Tons		
[33]	Avoided N ₂ O	Electric	Residential	Water Heater	Tons		
[34]	Avoided N ₂ O	Electric	Residential	Heat Pump	Tons		
[35]	Avoided N ₂ O	Electric	Commercial	Water Heater	Tons		
[36]	Avoided CH ₄	Gas	Residential	Furnace	Tons	REDACTED	REDACTED
[37]	Avoided CH ₄	Gas	Residential	Water Heater	Tons		
[38]	Avoided CH ₄	Gas	Commercial	Water Heater	Tons		
[39]	Avoided CH ₄	Electric	Residential	Furnace	Tons		
[40]	Avoided CH ₄	Electric	Residential	Water Heater	Tons		
[41]	Avoided CH ₄	Electric	Residential	Heat Pump	Tons		
[42]	Avoided CH ₄	Electric	Commercial	Water Heater	Tons		

Total Savings (units)

Note	Savings Type	Fuel	Customer Class	Program	Units	2026	2027
[1]	Avoided Energy	Gas	Residential	Furnace	Therms	REDACTED	
[2]	Avoided Energy	Gas	Residential	Water Heater	Therms		
[3]	Avoided Energy	Gas	Commercial	Water Heater	Therms		
[4]	Avoided Energy	Electric	Residential	Furnace	kWh		
[5]	Avoided Energy	Electric	Residential	Water Heater	kWh		
[6]	Avoided Energy	Electric	Residential	Heat Pump	kWh		
[7]	Avoided Energy	Electric	Commercial	Water Heater	kWh		
[8]	Avoided Distribution Capacity	Gas	Residential	Furnace	Therms		
[9]	Avoided Distribution Capacity	Gas	Residential	Water Heater	Therms		
[10]	Avoided Distribution Capacity	Gas	Commercial	Water Heater	Therms		
[11]	Avoided Distribution Capacity	Electric	Residential	Furnace	kW		
[12]	Avoided Distribution Capacity	Electric	Residential	Water Heater	kW		
[13]	Avoided Distribution Capacity	Electric	Residential	Heat Pump	kW		
[14]	Avoided Distribution Capacity	Electric	Commercial	Water Heater	kW		
[15]	Avoided Generation Capacity	Gas	Residential	Furnace	Therms		
[16]	Avoided Generation Capacity	Gas	Residential	Water Heater	Therms		
[17]	Avoided Generation Capacity	Gas	Commercial	Water Heater	Therms		
[18]	Avoided Generation Capacity	Electric	Residential	Furnace	kW		
[19]	Avoided Generation Capacity	Electric	Residential	Water Heater	kW		
[20]	Avoided Generation Capacity	Electric	Residential	Heat Pump	kW		
[21]	Avoided Generation Capacity	Electric	Commercial	Water Heater	kW		
[22]	Avoided CO ₂	Gas	Residential	Furnace	Tons		
[23]	Avoided CO ₂	Gas	Residential	Water Heater	Tons		
[24]	Avoided CO ₂	Gas	Commercial	Water Heater	Tons		
[25]	Avoided CO ₂	Electric	Residential	Furnace	Tons		
[26]	Avoided CO ₂	Electric	Residential	Water Heater	Tons		
[27]	Avoided CO ₂	Electric	Residential	Heat Pump	Tons		
[28]	Avoided CO ₂	Electric	Commercial	Water Heater	Tons		
[29]	Avoided N ₂ O	Gas	Residential	Furnace	Tons		
[30]	Avoided N ₂ O	Gas	Residential	Water Heater	Tons		
[31]	Avoided N ₂ O	Gas	Commercial	Water Heater	Tons		
[32]	Avoided N ₂ O	Electric	Residential	Furnace	Tons		
[33]	Avoided N ₂ O	Electric	Residential	Water Heater	Tons		
[34]	Avoided N ₂ O	Electric	Residential	Heat Pump	Tons		
[35]	Avoided N ₂ O	Electric	Commercial	Water Heater	Tons		
[36]	Avoided CH ₄	Gas	Residential	Furnace	Tons		
[37]	Avoided CH ₄	Gas	Residential	Water Heater	Tons		
[38]	Avoided CH ₄	Gas	Commercial	Water Heater	Tons		
[39]	Avoided CH ₄	Electric	Residential	Furnace	Tons		
[40]	Avoided CH ₄	Electric	Residential	Water Heater	Tons		
[41]	Avoided CH ₄	Electric	Residential	Heat Pump	Tons		
[42]	Avoided CH ₄	Electric	Commercial	Water Heater	Tons		

Total Savings (units)

Note	Savings Type	Fuel	Customer Class	Program	Units	2028	2029
[1]	Avoided Energy	Gas	Residential	Furnace	Therms	REDACTED	REDACTED
[2]	Avoided Energy	Gas	Residential	Water Heater	Therms		
[3]	Avoided Energy	Gas	Commercial	Water Heater	Therms		
[4]	Avoided Energy	Electric	Residential	Furnace	kWh		
[5]	Avoided Energy	Electric	Residential	Water Heater	kWh		
[6]	Avoided Energy	Electric	Residential	Heat Pump	kWh		
[7]	Avoided Energy	Electric	Commercial	Water Heater	kWh		
[8]	Avoided Distribution Capacity	Gas	Residential	Furnace	Therms	REDACTED	REDACTED
[9]	Avoided Distribution Capacity	Gas	Residential	Water Heater	Therms		
[10]	Avoided Distribution Capacity	Gas	Commercial	Water Heater	Therms		
[11]	Avoided Distribution Capacity	Electric	Residential	Furnace	kW		
[12]	Avoided Distribution Capacity	Electric	Residential	Water Heater	kW		
[13]	Avoided Distribution Capacity	Electric	Residential	Heat Pump	kW		
[14]	Avoided Distribution Capacity	Electric	Commercial	Water Heater	kW		
[15]	Avoided Generation Capacity	Gas	Residential	Furnace	Therms		
[16]	Avoided Generation Capacity	Gas	Residential	Water Heater	Therms		
[17]	Avoided Generation Capacity	Gas	Commercial	Water Heater	Therms		
[18]	Avoided Generation Capacity	Electric	Residential	Furnace	kW		
[19]	Avoided Generation Capacity	Electric	Residential	Water Heater	kW		
[20]	Avoided Generation Capacity	Electric	Residential	Heat Pump	kW		
[21]	Avoided Generation Capacity	Electric	Commercial	Water Heater	kW		
[22]	Avoided CO ₂	Gas	Residential	Furnace	Tons	REDACTED	REDACTED
[23]	Avoided CO ₂	Gas	Residential	Water Heater	Tons		
[24]	Avoided CO ₂	Gas	Commercial	Water Heater	Tons		
[25]	Avoided CO ₂	Electric	Residential	Furnace	Tons		
[26]	Avoided CO ₂	Electric	Residential	Water Heater	Tons		
[27]	Avoided CO ₂	Electric	Residential	Heat Pump	Tons		
[28]	Avoided CO ₂	Electric	Commercial	Water Heater	Tons		
[29]	Avoided N ₂ O	Gas	Residential	Furnace	Tons		
[30]	Avoided N ₂ O	Gas	Residential	Water Heater	Tons		
[31]	Avoided N ₂ O	Gas	Commercial	Water Heater	Tons		
[32]	Avoided N ₂ O	Electric	Residential	Furnace	Tons		
[33]	Avoided N ₂ O	Electric	Residential	Water Heater	Tons		
[34]	Avoided N ₂ O	Electric	Residential	Heat Pump	Tons		
[35]	Avoided N ₂ O	Electric	Commercial	Water Heater	Tons		
[36]	Avoided CH ₄	Gas	Residential	Furnace	Tons	REDACTED	REDACTED
[37]	Avoided CH ₄	Gas	Residential	Water Heater	Tons		
[38]	Avoided CH ₄	Gas	Commercial	Water Heater	Tons		
[39]	Avoided CH ₄	Electric	Residential	Furnace	Tons		
[40]	Avoided CH ₄	Electric	Residential	Water Heater	Tons		
[41]	Avoided CH ₄	Electric	Residential	Heat Pump	Tons		
[42]	Avoided CH ₄	Electric	Commercial	Water Heater	Tons		

Total Savings (units)

Note	Savings Type	Fuel	Customer Class	Program	Units	2030	2031
[1]	Avoided Energy	Gas	Residential	Furnace	Therms	REDACTED	
[2]	Avoided Energy	Gas	Residential	Water Heater	Therms		
[3]	Avoided Energy	Gas	Commercial	Water Heater	Therms		
[4]	Avoided Energy	Electric	Residential	Furnace	kWh		
[5]	Avoided Energy	Electric	Residential	Water Heater	kWh		
[6]	Avoided Energy	Electric	Residential	Heat Pump	kWh		
[7]	Avoided Energy	Electric	Commercial	Water Heater	kWh		
[8]	Avoided Distribution Capacity	Gas	Residential	Furnace	Therms		
[9]	Avoided Distribution Capacity	Gas	Residential	Water Heater	Therms		
[10]	Avoided Distribution Capacity	Gas	Commercial	Water Heater	Therms		
[11]	Avoided Distribution Capacity	Electric	Residential	Furnace	kW		
[12]	Avoided Distribution Capacity	Electric	Residential	Water Heater	kW		
[13]	Avoided Distribution Capacity	Electric	Residential	Heat Pump	kW		
[14]	Avoided Distribution Capacity	Electric	Commercial	Water Heater	kW		
[15]	Avoided Generation Capacity	Gas	Residential	Furnace	Therms		
[16]	Avoided Generation Capacity	Gas	Residential	Water Heater	Therms		
[17]	Avoided Generation Capacity	Gas	Commercial	Water Heater	Therms		
[18]	Avoided Generation Capacity	Electric	Residential	Furnace	kW		
[19]	Avoided Generation Capacity	Electric	Residential	Water Heater	kW		
[20]	Avoided Generation Capacity	Electric	Residential	Heat Pump	kW		
[21]	Avoided Generation Capacity	Electric	Commercial	Water Heater	kW		
[22]	Avoided CO ₂	Gas	Residential	Furnace	Tons		
[23]	Avoided CO ₂	Gas	Residential	Water Heater	Tons		
[24]	Avoided CO ₂	Gas	Commercial	Water Heater	Tons		
[25]	Avoided CO ₂	Electric	Residential	Furnace	Tons		
[26]	Avoided CO ₂	Electric	Residential	Water Heater	Tons		
[27]	Avoided CO ₂	Electric	Residential	Heat Pump	Tons		
[28]	Avoided CO ₂	Electric	Commercial	Water Heater	Tons		
[29]	Avoided N ₂ O	Gas	Residential	Furnace	Tons		
[30]	Avoided N ₂ O	Gas	Residential	Water Heater	Tons		
[31]	Avoided N ₂ O	Gas	Commercial	Water Heater	Tons		
[32]	Avoided N ₂ O	Electric	Residential	Furnace	Tons		
[33]	Avoided N ₂ O	Electric	Residential	Water Heater	Tons		
[34]	Avoided N ₂ O	Electric	Residential	Heat Pump	Tons		
[35]	Avoided N ₂ O	Electric	Commercial	Water Heater	Tons		
[36]	Avoided CH ₄	Gas	Residential	Furnace	Tons		
[37]	Avoided CH ₄	Gas	Residential	Water Heater	Tons		
[38]	Avoided CH ₄	Gas	Commercial	Water Heater	Tons		
[39]	Avoided CH ₄	Electric	Residential	Furnace	Tons		
[40]	Avoided CH ₄	Electric	Residential	Water Heater	Tons		
[41]	Avoided CH ₄	Electric	Residential	Heat Pump	Tons		
[42]	Avoided CH ₄	Electric	Commercial	Water Heater	Tons		

Total Savings (units)

Note	Savings Type	Fuel	Customer Class	Program	Units	2032	2033
[1]	Avoided Energy	Gas	Residential	Furnace	Therms	REDACTED	
[2]	Avoided Energy	Gas	Residential	Water Heater	Therms		
[3]	Avoided Energy	Gas	Commercial	Water Heater	Therms		
[4]	Avoided Energy	Electric	Residential	Furnace	kWh		
[5]	Avoided Energy	Electric	Residential	Water Heater	kWh		
[6]	Avoided Energy	Electric	Residential	Heat Pump	kWh		
[7]	Avoided Energy	Electric	Commercial	Water Heater	kWh		
[8]	Avoided Distribution Capacity	Gas	Residential	Furnace	Therms		
[9]	Avoided Distribution Capacity	Gas	Residential	Water Heater	Therms		
[10]	Avoided Distribution Capacity	Gas	Commercial	Water Heater	Therms		
[11]	Avoided Distribution Capacity	Electric	Residential	Furnace	kW		
[12]	Avoided Distribution Capacity	Electric	Residential	Water Heater	kW		
[13]	Avoided Distribution Capacity	Electric	Residential	Heat Pump	kW		
[14]	Avoided Distribution Capacity	Electric	Commercial	Water Heater	kW		
[15]	Avoided Generation Capacity	Gas	Residential	Furnace	Therms		
[16]	Avoided Generation Capacity	Gas	Residential	Water Heater	Therms		
[17]	Avoided Generation Capacity	Gas	Commercial	Water Heater	Therms		
[18]	Avoided Generation Capacity	Electric	Residential	Furnace	kW		
[19]	Avoided Generation Capacity	Electric	Residential	Water Heater	kW		
[20]	Avoided Generation Capacity	Electric	Residential	Heat Pump	kW		
[21]	Avoided Generation Capacity	Electric	Commercial	Water Heater	kW		
[22]	Avoided CO ₂	Gas	Residential	Furnace	Tons		
[23]	Avoided CO ₂	Gas	Residential	Water Heater	Tons		
[24]	Avoided CO ₂	Gas	Commercial	Water Heater	Tons		
[25]	Avoided CO ₂	Electric	Residential	Furnace	Tons		
[26]	Avoided CO ₂	Electric	Residential	Water Heater	Tons		
[27]	Avoided CO ₂	Electric	Residential	Heat Pump	Tons		
[28]	Avoided CO ₂	Electric	Commercial	Water Heater	Tons		
[29]	Avoided N ₂ O	Gas	Residential	Furnace	Tons		
[30]	Avoided N ₂ O	Gas	Residential	Water Heater	Tons		
[31]	Avoided N ₂ O	Gas	Commercial	Water Heater	Tons		
[32]	Avoided N ₂ O	Electric	Residential	Furnace	Tons		
[33]	Avoided N ₂ O	Electric	Residential	Water Heater	Tons		
[34]	Avoided N ₂ O	Electric	Residential	Heat Pump	Tons		
[35]	Avoided N ₂ O	Electric	Commercial	Water Heater	Tons		
[36]	Avoided CH ₄	Gas	Residential	Furnace	Tons		
[37]	Avoided CH ₄	Gas	Residential	Water Heater	Tons		
[38]	Avoided CH ₄	Gas	Commercial	Water Heater	Tons		
[39]	Avoided CH ₄	Electric	Residential	Furnace	Tons		
[40]	Avoided CH ₄	Electric	Residential	Water Heater	Tons		
[41]	Avoided CH ₄	Electric	Residential	Heat Pump	Tons		
[42]	Avoided CH ₄	Electric	Commercial	Water Heater	Tons		

Total Savings (units)

Note	Savings Type	Fuel	Customer Class	Program	Units	2034	2035
[1]	Avoided Energy	Gas	Residential	Furnace	Therms	REDACTED	
[2]	Avoided Energy	Gas	Residential	Water Heater	Therms		
[3]	Avoided Energy	Gas	Commercial	Water Heater	Therms		
[4]	Avoided Energy	Electric	Residential	Furnace	kWh		
[5]	Avoided Energy	Electric	Residential	Water Heater	kWh		
[6]	Avoided Energy	Electric	Residential	Heat Pump	kWh		
[7]	Avoided Energy	Electric	Commercial	Water Heater	kWh		
[8]	Avoided Distribution Capacity	Gas	Residential	Furnace	Therms		
[9]	Avoided Distribution Capacity	Gas	Residential	Water Heater	Therms		
[10]	Avoided Distribution Capacity	Gas	Commercial	Water Heater	Therms		
[11]	Avoided Distribution Capacity	Electric	Residential	Furnace	kW		
[12]	Avoided Distribution Capacity	Electric	Residential	Water Heater	kW		
[13]	Avoided Distribution Capacity	Electric	Residential	Heat Pump	kW		
[14]	Avoided Distribution Capacity	Electric	Commercial	Water Heater	kW		
[15]	Avoided Generation Capacity	Gas	Residential	Furnace	Therms		
[16]	Avoided Generation Capacity	Gas	Residential	Water Heater	Therms		
[17]	Avoided Generation Capacity	Gas	Commercial	Water Heater	Therms		
[18]	Avoided Generation Capacity	Electric	Residential	Furnace	kW		
[19]	Avoided Generation Capacity	Electric	Residential	Water Heater	kW		
[20]	Avoided Generation Capacity	Electric	Residential	Heat Pump	kW		
[21]	Avoided Generation Capacity	Electric	Commercial	Water Heater	kW		
[22]	Avoided CO ₂	Gas	Residential	Furnace	Tons		
[23]	Avoided CO ₂	Gas	Residential	Water Heater	Tons		
[24]	Avoided CO ₂	Gas	Commercial	Water Heater	Tons		
[25]	Avoided CO ₂	Electric	Residential	Furnace	Tons		
[26]	Avoided CO ₂	Electric	Residential	Water Heater	Tons		
[27]	Avoided CO ₂	Electric	Residential	Heat Pump	Tons		
[28]	Avoided CO ₂	Electric	Commercial	Water Heater	Tons		
[29]	Avoided N ₂ O	Gas	Residential	Furnace	Tons		
[30]	Avoided N ₂ O	Gas	Residential	Water Heater	Tons		
[31]	Avoided N ₂ O	Gas	Commercial	Water Heater	Tons		
[32]	Avoided N ₂ O	Electric	Residential	Furnace	Tons		
[33]	Avoided N ₂ O	Electric	Residential	Water Heater	Tons		
[34]	Avoided N ₂ O	Electric	Residential	Heat Pump	Tons		
[35]	Avoided N ₂ O	Electric	Commercial	Water Heater	Tons		
[36]	Avoided CH ₄	Gas	Residential	Furnace	Tons		
[37]	Avoided CH ₄	Gas	Residential	Water Heater	Tons		
[38]	Avoided CH ₄	Gas	Commercial	Water Heater	Tons		
[39]	Avoided CH ₄	Electric	Residential	Furnace	Tons		
[40]	Avoided CH ₄	Electric	Residential	Water Heater	Tons		
[41]	Avoided CH ₄	Electric	Residential	Heat Pump	Tons		
[42]	Avoided CH ₄	Electric	Commercial	Water Heater	Tons		

Total Savings (units)

Note	Savings Type	Fuel	Customer Class	Program	Units	2036
[1]	Avoided Energy	Gas	Residential	Furnace	Therms	REDACTED
[2]	Avoided Energy	Gas	Residential	Water Heater	Therms	
[3]	Avoided Energy	Gas	Commercial	Water Heater	Therms	
[4]	Avoided Energy	Electric	Residential	Furnace	kWh	
[5]	Avoided Energy	Electric	Residential	Water Heater	kWh	
[6]	Avoided Energy	Electric	Residential	Heat Pump	kWh	
[7]	Avoided Energy	Electric	Commercial	Water Heater	kWh	
[8]	Avoided Distribution Capacity	Gas	Residential	Furnace	Therms	
[9]	Avoided Distribution Capacity	Gas	Residential	Water Heater	Therms	
[10]	Avoided Distribution Capacity	Gas	Commercial	Water Heater	Therms	
[11]	Avoided Distribution Capacity	Electric	Residential	Furnace	kW	
[12]	Avoided Distribution Capacity	Electric	Residential	Water Heater	kW	
[13]	Avoided Distribution Capacity	Electric	Residential	Heat Pump	kW	
[14]	Avoided Distribution Capacity	Electric	Commercial	Water Heater	kW	
[15]	Avoided Generation Capacity	Gas	Residential	Furnace	Therms	
[16]	Avoided Generation Capacity	Gas	Residential	Water Heater	Therms	
[17]	Avoided Generation Capacity	Gas	Commercial	Water Heater	Therms	
[18]	Avoided Generation Capacity	Electric	Residential	Furnace	kW	
[19]	Avoided Generation Capacity	Electric	Residential	Water Heater	kW	
[20]	Avoided Generation Capacity	Electric	Residential	Heat Pump	kW	
[21]	Avoided Generation Capacity	Electric	Commercial	Water Heater	kW	
[22]	Avoided CO ₂	Gas	Residential	Furnace	Tons	
[23]	Avoided CO ₂	Gas	Residential	Water Heater	Tons	
[24]	Avoided CO ₂	Gas	Commercial	Water Heater	Tons	
[25]	Avoided CO ₂	Electric	Residential	Furnace	Tons	
[26]	Avoided CO ₂	Electric	Residential	Water Heater	Tons	
[27]	Avoided CO ₂	Electric	Residential	Heat Pump	Tons	
[28]	Avoided CO ₂	Electric	Commercial	Water Heater	Tons	
[29]	Avoided N ₂ O	Gas	Residential	Furnace	Tons	
[30]	Avoided N ₂ O	Gas	Residential	Water Heater	Tons	
[31]	Avoided N ₂ O	Gas	Commercial	Water Heater	Tons	
[32]	Avoided N ₂ O	Electric	Residential	Furnace	Tons	
[33]	Avoided N ₂ O	Electric	Residential	Water Heater	Tons	
[34]	Avoided N ₂ O	Electric	Residential	Heat Pump	Tons	
[35]	Avoided N ₂ O	Electric	Commercial	Water Heater	Tons	
[36]	Avoided CH ₄	Gas	Residential	Furnace	Tons	
[37]	Avoided CH ₄	Gas	Residential	Water Heater	Tons	
[38]	Avoided CH ₄	Gas	Commercial	Water Heater	Tons	
[39]	Avoided CH ₄	Electric	Residential	Furnace	Tons	
[40]	Avoided CH ₄	Electric	Residential	Water Heater	Tons	
[41]	Avoided CH ₄	Electric	Residential	Heat Pump	Tons	
[42]	Avoided CH ₄	Electric	Commercial	Water Heater	Tons	

CH₄ Reduction Forecast

Note	Fuel	Customer Class	Program	Energy Savings Unit	CH ₄ Savings Unit	2016	2017	2018	2019
[1]	Gas	Residential	Furnace	Therms	Tons	<div style="background-color: black; color: white; text-align: center; padding: 10px;"> REDACTED </div>			
[2]	Gas	Residential	Water Heater	Therms	Tons				
[3]	Gas	Commercial	Water Heater	Therms	Tons				
[4]	Electric	Residential	Furnace	kWh	Tons				
[5]	Electric	Residential	Water Heater	kWh	Tons				
[6]	Electric	Residential	Heat Pump	kWh	Tons				
[7]	Electric	Commercial	Water Heater	kWh	Tons				

CH₄ Reduction Forecast

Note	Fuel	Customer Class	Program	Energy Savings Unit	CH ₄ Savings Unit	2020	2021	2022	2023
[1]	Gas	Residential	Furnace	Therms	Tons	REDACTED			
[2]	Gas	Residential	Water Heater	Therms	Tons				
[3]	Gas	Commercial	Water Heater	Therms	Tons				
[4]	Electric	Residential	Furnace	kWh	Tons				
[5]	Electric	Residential	Water Heater	kWh	Tons				
[6]	Electric	Residential	Heat Pump	kWh	Tons				
[7]	Electric	Commercial	Water Heater	kWh	Tons				

CH₄ Reduction Forecast

Note	Fuel	Customer Class	Program	Energy Savings Unit	CH ₄ Savings Unit	2024	2025	2026	2027
[1]	Gas	Residential	Furnace	Therms	Tons	REDACTED			
[2]	Gas	Residential	Water Heater	Therms	Tons				
[3]	Gas	Commercial	Water Heater	Therms	Tons				
[4]	Electric	Residential	Furnace	kWh	Tons				
[5]	Electric	Residential	Water Heater	kWh	Tons				
[6]	Electric	Residential	Heat Pump	kWh	Tons				
[7]	Electric	Commercial	Water Heater	kWh	Tons				

CH₄ Reduction Forecast

Note	Fuel	Customer Class	Program	Energy Savings Unit	CH ₄ Savings Unit	2028	2029	2030	2031
[1]	Gas	Residential	Furnace	Therms	Tons	<div style="background-color: black; color: white; text-align: center; padding: 10px; font-weight: bold;">REDACTED</div>			
[2]	Gas	Residential	Water Heater	Therms	Tons				
[3]	Gas	Commercial	Water Heater	Therms	Tons				
[4]	Electric	Residential	Furnace	kWh	Tons				
[5]	Electric	Residential	Water Heater	kWh	Tons				
[6]	Electric	Residential	Heat Pump	kWh	Tons				
[7]	Electric	Commercial	Water Heater	kWh	Tons				

CH₄ Reduction Forecast

Note	Fuel	Customer Class	Program	Energy Savings Unit	CH ₄ Savings Unit	2032	2033	2034	2035
[1]	Gas	Residential	Furnace	Therms	Tons	REDACTED			
[2]	Gas	Residential	Water Heater	Therms	Tons				
[3]	Gas	Commercial	Water Heater	Therms	Tons				
[4]	Electric	Residential	Furnace	kWh	Tons				
[5]	Electric	Residential	Water Heater	kWh	Tons				
[6]	Electric	Residential	Heat Pump	kWh	Tons				
[7]	Electric	Commercial	Water Heater	kWh	Tons				

CH₄ Reduction Forecast

Note	Fuel	Customer Class	Program	Energy Savings Unit	CH ₄ Savings Unit	2036
[1]	Gas	Residential	Furnace	Therms	Tons	REDACTED
[2]	Gas	Residential	Water Heater	Therms	Tons	REDACTED
[3]	Gas	Commercial	Water Heater	Therms	Tons	REDACTED
[4]	Electric	Residential	Furnace	kWh	Tons	REDACTED
[5]	Electric	Residential	Water Heater	kWh	Tons	REDACTED
[6]	Electric	Residential	Heat Pump	kWh	Tons	REDACTED
[7]	Electric	Commercial	Water Heater	kWh	Tons	REDACTED

N₂O Reduction Forecast

Note	Fuel	Customer Class	Program	Energy Savings Unit	N ₂ O Savings Unit	2016	2017	2018	2019
[1]	Gas	Residential	Furnace	Therms	Tons				
[2]	Gas	Residential	Water Heater	Therms	Tons				
[3]	Gas	Commercial	Water Heater	Therms	Tons				
[4]	Electric	Residential	Furnace	kWh	Tons				
[5]	Electric	Residential	Water Heater	kWh	Tons				
[6]	Electric	Residential	Heat Pump	kWh	Tons				
[7]	Electric	Commercial	Water Heater	kWh	Tons				

REDACTED

N₂O Reduction Forecast

Note	Fuel	Customer Class	Program	Energy Savings Unit	N ₂ O Savings Unit	2020	2021	2022	2023	2024
[1]	Gas	Residential	Furnace	Therms	Tons					
[2]	Gas	Residential	Water Heater	Therms	Tons					
[3]	Gas	Commercial	Water Heater	Therms	Tons					
[4]	Electric	Residential	Furnace	kWh	Tons					
[5]	Electric	Residential	Water Heater	kWh	Tons					
[6]	Electric	Residential	Heat Pump	kWh	Tons					
[7]	Electric	Commercial	Water Heater	kWh	Tons					

REDACTED

N₂O Reduction Forecast

Note	Fuel	Customer Class	Program	Energy Savings Unit	N ₂ O Savings Unit	2025	2026	2027	2028	2029
[1]	Gas	Residential	Furnace	Therms	Tons	REDACTED				
[2]	Gas	Residential	Water Heater	Therms	Tons					
[3]	Gas	Commercial	Water Heater	Therms	Tons					
[4]	Electric	Residential	Furnace	kWh	Tons					
[5]	Electric	Residential	Water Heater	kWh	Tons					
[6]	Electric	Residential	Heat Pump	kWh	Tons					
[7]	Electric	Commercial	Water Heater	kWh	Tons					

N₂O Reduction Forecast

Note	Fuel	Customer Class	Program	Energy Savings Unit	N ₂ O Savings Unit	2030	2031	2032	2033	2034
[1]	Gas	Residential	Furnace	Therms	Tons	REDACTED				
[2]	Gas	Residential	Water Heater	Therms	Tons					
[3]	Gas	Commercial	Water Heater	Therms	Tons					
[4]	Electric	Residential	Furnace	kWh	Tons					
[5]	Electric	Residential	Water Heater	kWh	Tons					
[6]	Electric	Residential	Heat Pump	kWh	Tons					
[7]	Electric	Commercial	Water Heater	kWh	Tons					

N₂O Reduction Forecast

Note	Fuel	Customer Class	Program	Energy Savings Unit	N ₂ O Savings Unit	2035	2036
[1]	Gas	Residential	Furnace	Therms	Tons	REDACTED	REDACTED
[2]	Gas	Residential	Water Heater	Therms	Tons	REDACTED	REDACTED
[3]	Gas	Commercial	Water Heater	Therms	Tons	REDACTED	REDACTED
[4]	Electric	Residential	Furnace	kWh	Tons	REDACTED	REDACTED
[5]	Electric	Residential	Water Heater	kWh	Tons	REDACTED	REDACTED
[6]	Electric	Residential	Heat Pump	kWh	Tons	REDACTED	REDACTED
[7]	Electric	Commercial	Water Heater	kWh	Tons	REDACTED	REDACTED

CO₂ Reduction Forecast

Note	Fuel	Customer Class	Program	Energy Savings Unit	CO ₂ Savings Unit	2016	2017	2018	2019
[1]	Gas	Residential	Furnace	Therms	Tons	<div style="background-color: black; color: white; text-align: center; padding: 10px; font-weight: bold;">REDACTED</div>			
[2]	Gas	Residential	Water Heater	Therms	Tons				
[3]	Gas	Commercial	Water Heater	Therms	Tons				
[4]	Electric	Residential	Furnace	kWh	Tons				
[5]	Electric	Residential	Water Heater	kWh	Tons				
[6]	Electric	Residential	Heat Pump	kWh	Tons				
[7]	Electric	Commercial	Water Heater	kWh	To				

CO₂ Reduction Forecast

Note	Fuel	Customer Class	Program	Energy Savings		CO ₂ Savings	Unit	2020	2021	2022	2023	2024
				Unit	Unit							
[1]	Gas	Residential	Furnace	Therms	Tons							
[2]	Gas	Residential	Water Heater	Therms	Tons							
[3]	Gas	Commercial	Water Heater	Therms	Tons							
[4]	Electric	Residential	Furnace	kWh	Tons							
[5]	Electric	Residential	Water Heater	kWh	Tons							
[6]	Electric	Residential	Heat Pump	kWh	Tons							
[7]	Electric	Commercial	Water Heater	kWh	Tons							

REDACTED

CO₂ Reduction Forecast

Note	Fuel	Customer Class	Program	Energy Savings Unit	CO ₂ Savings Unit	2025	2026	2027	2028	2029
[1]	Gas	Residential	Furnace	Therms	Tons	REDACTED				
[2]	Gas	Residential	Water Heater	Therms	Tons					
[3]	Gas	Commercial	Water Heater	Therms	Tons					
[4]	Electric	Residential	Furnace	kWh	Tons					
[5]	Electric	Residential	Water Heater	kWh	Tons					
[6]	Electric	Residential	Heat Pump	kWh	Tons					
[7]	Electric	Commercial	Water Heater	kWh	Tons					

CO₂ Reduction Forecast

Note	Fuel	Customer Class	Program	Energy Savings Unit	CO ₂ Savings Unit	2030	2031	2032	2033	2034
[1]	Gas	Residential	Furnace	Therms	Tons	REDACTED				
[2]	Gas	Residential	Water Heater	Therms	Tons					
[3]	Gas	Commercial	Water Heater	Therms	Tons					
[4]	Electric	Residential	Furnace	kWh	Tons					
[5]	Electric	Residential	Water Heater	kWh	Tons					
[6]	Electric	Residential	Heat Pump	kWh	Tons					
[7]	Electric	Commercial	Water Heater	kWh	Tons					

CO₂ Reduction Forecast

Note	Fuel	Customer Class	Program	Energy Savings		CO ₂ Savings Unit
				Unit	Unit	
[1]	Gas	Residential	Furnace	Therms	Tons	<div style="background-color: black; color: white; text-align: center; padding: 10px; font-weight: bold;">REDACTED</div>
[2]	Gas	Residential	Water Heater	Therms	Tons	
[3]	Gas	Commercial	Water Heater	Therms	Tons	
[4]	Electric	Residential	Furnace	kWh	Tons	
[5]	Electric	Residential	Water Heater	kWh	Tons	
[6]	Electric	Residential	Heat Pump	kWh	Tons	
[7]	Electric	Commercial	Water Heater	kWh	Tons	

Generation Capacity Reduction Forecast

Note	Fuel	Customer Class	Program	Unit	2016	2017	2018	2019	2020	2021
[1]	Gas	Residential	Furnace	Therms	REDACTED					
[2]	Gas	Residential	Water Heater	Therms						
[3]	Gas	Commercial	Water Heater	Therms						
[4]	Electric	Residential	Furnace	kW						
[5]	Electric	Residential	Water Heater	kW						
[6]	Electric	Residential	Heat Pump	kW						
[7]	Electric	Commercial	Water Heater	kW						

Generation Capacity Reduction Forecast

Note	Fuel	Customer Class	Program	Unit	2022	2023	2024	2025	2026	2027
[1]	Gas	Residential	Furnace	Therms	REDACTED					
[2]	Gas	Residential	Water Heater	Therms						
[3]	Gas	Commercial	Water Heater	Therms						
[4]	Electric	Residential	Furnace	kW						
[5]	Electric	Residential	Water Heater	kW						
[6]	Electric	Residential	Heat Pump	kW						
[7]	Electric	Commercial	Water Heater	kW						

Generation Capacity Reduction Forecast

Note	Fuel	Customer Class	Program	Unit	2028	2029	2030	2031	2032	2033
[1]	Gas	Residential	Furnace	Therms	REDACTED					
[2]	Gas	Residential	Water Heater	Therms						
[3]	Gas	Commercial	Water Heater	Therms						
[4]	Electric	Residential	Furnace	kW						
[5]	Electric	Residential	Water Heater	kW						
[6]	Electric	Residential	Heat Pump	kW						
[7]	Electric	Commercial	Water Heater	kW						

Generation Capacity Reduction Forecast

Note	Fuel	Customer Class	Program	Unit	2034	2035	2036
[1]	Gas	Residential	Furnace	Therms	<div style="background-color: black; color: white; text-align: center; padding: 5px;"> REDACTED </div>		
[2]	Gas	Residential	Water Heater	Therms			
[3]	Gas	Commercial	Water Heater	Therms			
[4]	Electric	Residential	Furnace	kW			
[5]	Electric	Residential	Water Heater	kW			
[6]	Electric	Residential	Heat Pump	kW			
[7]	Electric	Commercial	Water Heater	kW			

Distribution Capacity Reduction Forecast

Note	Fuel	Customer Class	Program	Unit	2016	2017	2018	2019	2020	2021
[1]	Gas	Residential	Furnace	Therms						
[2]	Gas	Residential	Water Heater	Therms						
[3]	Gas	Commercial	Water Heater	Therms						
[4]	Electric	Residential	Furnace	kW						
[5]	Electric	Residential	Water Heater	kW						
[6]	Electric	Residential	Heat Pump	kW						
[7]	Electric	Commercial	Water Heater	kW						

REDACTED

Distribution Capacity Reduction Forecast

Note	Fuel	Customer Class	Program	Unit	2022	2023	2024	2025	2026	2027
[1]	Gas	Residential	Furnace	Therms	REDACTED					
[2]	Gas	Residential	Water Heater	Therms						
[3]	Gas	Commercial	Water Heater	Therms						
[4]	Electric	Residential	Furnace	kW						
[5]	Electric	Residential	Water Heater	kW						
[6]	Electric	Residential	Heat Pump	kW						
[7]	Electric	Commercial	Water Heater	kW						

Distribution Capacity Reduction Forecast

Note	Fuel	Customer Class	Program	Unit	2028	2029	2030	2031	2032	2033
[1]	Gas	Residential	Furnace	Therms	REDACTED					
[2]	Gas	Residential	Water Heater	Therms						
[3]	Gas	Commercial	Water Heater	Therms						
[4]	Electric	Residential	Furnace	kW						
[5]	Electric	Residential	Water Heater	kW						
[6]	Electric	Residential	Heat Pump	kW						
[7]	Electric	Commercial	Water Heater	kW						

Distribution Capacity Reduction Forecast

Note	Fuel	Customer Class	Program	Unit	2034	2035	2036
[1]	Gas	Residential	Furnace	Therms	REDACTED		
[2]	Gas	Residential	Water Heater	Therms			
[3]	Gas	Commercial	Water Heater	Therms			
[4]	Electric	Residential	Furnace	kW			
[5]	Electric	Residential	Water Heater	kW			
[6]	Electric	Residential	Heat Pump	kW			
[7]	Electric	Commercial	Water Heater	kW			

Energy Conservation Forecast, Summary

Note	Fuel	Customer Class	Program	Unit	2016	2017	2018	2019	2020	2021
[1]	Gas	Residential	Furnace	Therms	REDACTED					
[2]	Gas	Residential	Water Heater	Therms						
[3]	Gas	Commercial	Water Heater	Therms						
[4]	Electric	Residential	Furnace	kWh						
[5]	Electric	Residential	Water Heater	kWh						
[6]	Electric	Residential	Heat Pump	kWh						
[7]	Electric	Commercial	Water Heater	k						

Energy Conservation Forecast, Summary

Note	Fuel	Customer Class	Program	Unit	2022	2023	2024	2025	2026	2027
[1]	Gas	Residential	Furnace	Therms	REDACTED					
[2]	Gas	Residential	Water Heater	Therms						
[3]	Gas	Commercial	Water Heater	Therms						
[4]	Electric	Residential	Furnace	kWh						
[5]	Electric	Residential	Water Heater	kWh						
[6]	Electric	Residential	Heat Pump	kWh						
[7]	Electric	Commercial	Water Heater	kWh						

Energy Conservation Forecast, Summary

Note	Fuel	Customer Class	Program	Unit	2028	2029	2030	2031	2032	2033
[1]	Gas	Residential	Furnace	Therms	<div style="background-color: black; color: white; text-align: center; padding: 5px; font-weight: bold;"> REDACTED </div>					
[2]	Gas	Residential	Water Heater	Therms						
[3]	Gas	Commercial	Water Heater	Therms						
[4]	Electric	Residential	Furnace	kWh						
[5]	Electric	Residential	Water Heater	kWh						
[6]	Electric	Residential	Heat Pump	kWh						
[7]	Electric	Commercial	Water Heater	kWh						

Energy Conservation Forecast, Summary

Note	Fuel	Customer Class	Program	Unit	2034	2035	2036
[1]	Gas	Residential	Furnace	Therms			
[2]	Gas	Residential	Water Heater	Therms			
[3]	Gas	Commercial	Water Heater	Therms			
[4]	Electric	Residential	Furnace	kWh			
[5]	Electric	Residential	Water Heater	kWh			
[6]	Electric	Residential	Heat Pump	kWh			
[7]	Electric	Commercial	Water Heater	kWh			

REDACTED

Energy Increases from Conversions, Accounting for Conversions from Electric to Gas

Note	Fuel	Customer Class	Program	Product	Per Unit Energy Use of Unit		
					2016	2017	2018
					Converted Unit		
[1]	Gas	Residential	Furnace		697 Therms		REDACTED
[2]	Gas	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	253 Therms		REDACTED

Energy Increases from Conversions, Accounting for Conversions from Electric to Gas

Note	Fuel	Customer Class	Program	Product	Per Unit Energy Use of Unit			
					2019	2020	2021	Converted Unit
[1]	Gas	Residential	Furnace	Electric-to-Gas Fuel Conv - Water Heat Only	697 Therms			REDACTED
[2]	Gas	Residential	Water Heater		253 Therms			REDACTED

Energy Increases from Conversions, Accounting for Conversions from Electric to Gas

Note	Fuel	Customer Class	Program	Product	Per Unit Energy Use of Unit			
					2022	2023	2024	Converted Unit
[1]	Gas	Residential	Furnace	Electric-to-Gas Fuel Conv - Water Heat Only	697 Therms			REDACTED
[2]	Gas	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	253 Therms			REDACTED

Energy Increases from Conversions, Accounting for Conversions from Electric to Gas

Note	Fuel	Customer Class	Program	Product	Per Unit Energy Use of Unit		
					2025	2026	2027
							Converted Unit
[1]	Gas	Residential	Furnace				697 Therms
[2]	Gas	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only			253 Therms

REDACTED

Energy Increases from Conversions, Accounting for Conversions from Electric to Gas

Note	Fuel	Customer Class	Program	Product	Per Unit Energy Use of Unit			
					2028	2029	2030	Converted Unit
[1]	Gas	Residential	Furnace	Electric-to-Gas Fuel Conv - Water Heat Only	697 Therms			REDACTED
[2]	Gas	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	253 Therms			REDACTED

Energy Increases from Conversions, Accounting for Conversions from Electric to Gas

Note	Fuel	Customer Class	Program	Product	Per Unit Energy Use of Unit			
					2031	2032	2033	Converted Unit
[1]	Gas	Residential	Furnace				697 Therms	
[2]	Gas	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only			253 Therms	

REDACTED

Energy Increases from Conversions, Accounting for Conversions from Electric to Gas

Note	Fuel	Customer Class	Program	Product	Per Unit Energy Use of Unit		
					2034	2035	2036
[1]	Gas	Residential	Furnace				697 Therms
[2]	Gas	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only			253 Therms

REDACTED

Accelerated Energy Conservation Forecast by Product

Note	Fuel	Customer Class	Program	Product	Per Unit Energy Savings Over Code	Incremental Per Unit Expected Energy Savings from Acceleration	2016	2017	2018
[1]	Gas	Residential	Furnace	Gas Furnace (95% AFUE)	110	22 Therms			
[2]	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)	9	2 Therms			
[3]	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	23	5 Therms			
[4]	Gas	Commercial	Water Heater	Restaurant Water Heater (EF > .93)	613	123 Therms			
[5]	Gas	Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	597	119 Therms			
[6]	Electric	Residential	Furnace	E2G Fuel Conv - Space Heat Only - Forced Air	8,500	1,700 kWh			
[7]	Electric	Residential	Water Heater	Tier 2 Heat Pump Water Heater	1,518	304 kWh			
[8]	Electric	Residential	Water Heater	Electric Water Heater (> .95 EF)	0	0			
[9]	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	3,500	700 kWh			
[10]	Electric	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	106	21 kWh			
[11]	Electric	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	630	126 kWh			
[12]	Electric	Commercial	Water Heater	Electric Water Heater (> 75 gallons, < 209 Btu/hr)	0	0 kWh			

REDACTED

Accelerated Energy Conservation Forecast by Product

Note	Fuel	Customer Class	Program	Product	Per Unit Energy Savings Over Code	Incremental Per Unit Expected Energy Savings from Acceleration	2019	2020	2021
[1]	Gas	Residential	Furnace	Gas Furnace (95% AFUE)	110	22 Therms			
[2]	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)	9				
[3]	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	23	5 Therms			
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[5]	Gas	Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	597	119 Therms			
[6]	Electric	Residential	Furnace	E2G Fuel Conv - Space Heat Only - Forced Air	8,500	1,700 kWh			
[7]	Electric	Residential	Water Heater	Tier 2 Heat Pump Water Heater	1,518	304 kWh			
[8]	Electric	Residential	Water Heater	Electric Water Heater (> .95 EF)	0	0 kWh			
[9]	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	3,500	700 kWh			
[10]	Electric	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	106	21 kWh			
[11]	Electric	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	630	126 kWh			
[12]	Electric	Commercial	Water Heater	Electric Water Heater (> 75 gallons, < 100 gallons, < 209 Btu/hr)	0	0 kWh			

REDACTED

Accelerated Energy Conservation Forecast by Product

Note	Fuel	Customer Class	Program	Product	Per Unit Energy Savings Over Code	Incremental Per Unit Expected Energy Savings from Acceleration	2022	2023	2024
[1]	Gas	Residential	Furnace	Gas Furnace (95% AFUE)	110	22 Therms			
[2]	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)	9				
[3]	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	23	5 Therms			
[4]	Gas	Commercial	Water Heater	Restaurant Water Heater (EF > .93)	613	123 Therms			
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[8]	Electric	Residential	Water Heater	Electric Water Heater (> .95 EF)	0	0 kWh			
[9]	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	3,500	700 kWh			
[10]	Electric	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	106	21 kWh			
[11]	Electric	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	630	126 kWh			
[12]	Electric	Commercial	Water Heater	Electric Water Heater (> 75 gallons, < 100 gallons, < 209 Btu/hr)	0	0 kWh			

REDACTED

Accelerated Energy Conservation Forecast by Product

Note	Fuel	Customer Class	Program	Product	Per Unit Energy Savings Over Code	Incremental Per Unit Expected Energy Savings from Acceleration	2025	2026	2027
[1]	Gas	Residential	Furnace	Gas Furnace (95% AFUE)	110	22 Therms			
[2]	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)	9				
[3]	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	23	5 Therms			
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[10]	Electric	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	106	21 kWh			
[11]	Electric	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	630	126 kWh			
[12]	Electric	Commercial	Water Heater	Electric Water Heater (> 75 gallons, < 209 Btu/hr)	0	0 kWh			

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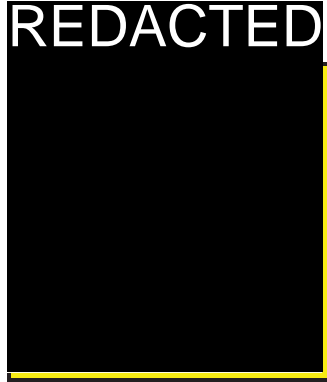
Accelerated Energy Conservation Forecast by Product

Note	Fuel	Customer Class	Program	Product	Per Unit Energy Savings Over Code	Incremental Per Unit Expected Energy Savings from Acceleration	2028	2029	2030
[1]	Gas	Residential	Furnace	Gas Furnace (95% AFUE)	110	22 Therms			
[2]	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)	9				
[3]	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	23	5 Therms			
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[8]	Electric	Residential	Water Heater	Electric Water Heater (> .95 EF)	0	0 kWh			
[9]	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	3,500	700 kWh			
[10]	Electric	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	106	21 kWh			
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Accelerated Energy Conservation Forecast by Product

Note	Fuel	Customer Class	Program	Product	Per Unit Energy Savings Over Code	Incremental Per Unit Expected Energy Savings from Acceleration	2031	2032	2033
[1]	Gas	Residential	Furnace	Gas Furnace (95% AFUE)	110	22 Therms			
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[9]	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	3,500	700 kWh			
[10]	Electric	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	106	21 kWh			
[11]	Electric	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	630	126 kWh			
[12]	Electric	Commercial	Water Heater	Electric Water Heater (> 75 gallons, < 100 gallons, < 209 Btu/hr)	0	0 kWh			



Accelerated Energy Conservation Forecast by Product

Note	Fuel	Customer Class	Program	Product	Per Unit Energy Savings Over Code	Incremental Per Unit Expected Energy Savings from Acceleration	2034	2035	2036
[1]	Gas	Residential	Furnace	Gas Furnace (95% AFUE)	110	22 Therms			
[2]	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)	9				
[3]	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	23	5 Therms			
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[5]	Gas	Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	597	119 Therms			
[6]	Electric	Residential	Furnace	E2G Fuel Conv - Space Heat Only - Forced Air	8,500	1,700 kWh			
[7]	Electric	Residential	Water Heater	Tier 2 Heat Pump Water Heater	1,518	304 kWh			
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[9]	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	3,500	700 kWh			
[10]	Electric	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	106	21 kWh			
[11]	Electric	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	630	126 kWh			
[12]	Electric	Commercial	Water Heater	Electric Water Heater (> 75 gallons, < 100 gallons, < 209 Btu/hr)	0	0 kWh			

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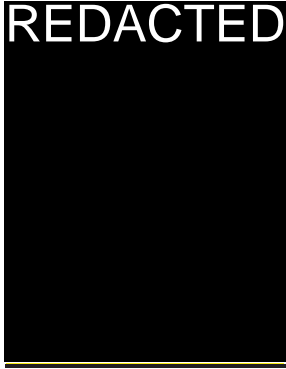
Energy Conservation Forecast by Product

Note	Fuel	Customer Class	Program	Product	Per Unit Energy Savings Over Code	Per Unit Expected Energy Savings	Unit	2016	2017	2018
[1]	Gas	Residential	Furnace	Gas Furnace (95% AFUE)	110	110	Therms			
[2]	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)	9	9	Therms			
[3]	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	23	23	Therms			
[4]	Gas	Commercial	Water Heater	Restaurant Water Heater (EF > .93)	613	613	Therms			
[5]	Gas	Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	597	597	Therms			
[6]	Electric	Residential	Furnace	E2G Fuel Conv - Space Heat Only - Forced Air	8,500	8,500	kWh			
[7]	Electric	Residential	Water Heater	Tier 2 Heat Pump Water Heater	1,518	1,518	kWh			
[8]	Electric	Residential	Water Heater	Electric Water Heater (> .95 EF)	0	0	kWh			
[9]	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	3,500	3,500	kWh			
[10]	Electric	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	106	106	kWh			
[11]	Electric	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	630	630	kWh			
[12]	Electric	Commercial	Water Heater	Electric Water Heater (> 75 gallons, < 100 gallons, < 209 Btu/hr)	0	0	kWh			

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Energy Conservation Forecast by Product

Note	Fuel	Customer Class	Program	Product	Per Unit Energy Savings Over Code	Per Unit Expected Energy Savings	Unit	2019	2020	2021
[1]	Gas	Residential	Furnace	Gas Furnace (95% AFUE)	110	110	Therms			
[2]	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)	9	9	Therms			
[3]	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	23	23	Therms			
[4]	Gas	Commercial	Water Heater	Restaurant Water Heater (EF > .93)	613	613	Therms			
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[8]	Electric	Residential	Water Heater	Electric Water Heater (> .95 EF)	0	0	kWh			
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[10]	Electric	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	106	106	kWh			
[11]	Electric	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	630	630	kWh			
[12]	Electric	Commercial	Water Heater	Electric Water Heater (> 75 gallons, < 100 gallons, < 209 Btu/hr)	0	0	kWh			



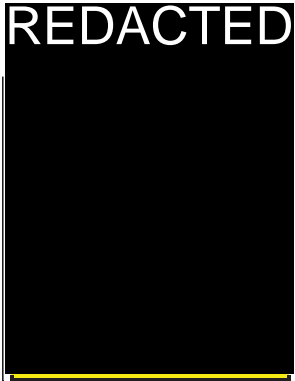
Energy Conservation Forecast by Product

Note	Fuel	Customer Class	Program	Product	Per Unit Energy Savings	Over Code	Per Unit Expected Energy Savings	Unit	2022	2023	2024
[1]	Gas	Residential	Furnace	Gas Furnace (95% AFUE)	110		110	Therms			
[2]	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)	9		9	Therms			
[3]	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	23		23	Therms			
[4]	Gas	Commercial	Water Heater	Restaurant Water Heater (EF > .93)	613		613	Therms			
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[6]	Electric	Residential	Furnace	E2G Fuel Conv - Space Heat Only - Forced Air	8,500		8,500	kWh			
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[8]	Electric	Residential	Water Heater	Electric Water Heater (> .95 EF)	0		0	kWh			
[9]	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	3,500		3,500	kWh			
[10]	Electric	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	106		106	kWh			
[11]	Electric	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	630		630	kWh			
[12]	Electric	Commercial	Water Heater	Electric Water Heater (> 75 gallons, < 100 gallons, < 209 Btu/hr)	0		0	kWh			

REDACTED

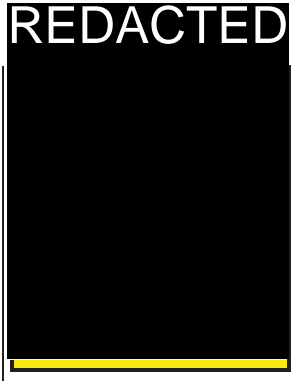
Energy Conservation Forecast by Product

Note	Fuel	Customer Class	Program	Product	Per Unit Energy Savings	Over Code	Per Unit Expected Energy Savings	Unit	2025	2026	2027
[1]	Gas	Residential	Furnace	Gas Furnace (95% AFUE)	110	110	110	Therms			
[2]	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)	9	9	9	Therms			
[3]	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	23	23	23	Therms			
[4]	Gas	Commercial	Water Heater	Restaurant Water Heater (EF > .93)	613	613	613	Therms			
[5]	Gas	Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	597	597	597	Therms			
[6]	Electric	Residential	Furnace	E2G Fuel Conv - Space Heat Only - Forced Air	8,500	8,500	8,500	kWh			
[7]	Electric	Residential	Water Heater	Tier 2 Heat Pump Water Heater	1,518	1,518	1,518	kWh			
[8]	Electric	Residential	Water Heater	Electric Water Heater (> .95 EF)	0	0	0	kWh			
[9]	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	3,500	3,500	3,500	kWh			
[10]	Electric	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	106	106	106	kWh			
[11]	Electric	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	630	630	630	kWh			
[12]	Electric	Commercial	Water Heater	Electric Water Heater (> 75 gallons, < 100 gallons, < 209 Btu/hr)	0	0	0	kWh			



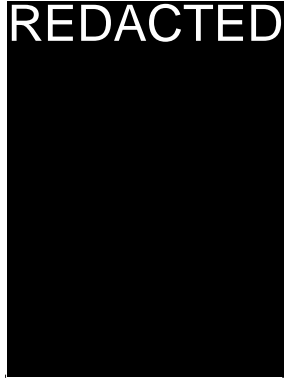
Energy Conservation Forecast by Product

Note	Fuel	Customer Class	Program	Product	Per Unit Energy Savings	Over Code	Per Unit Expected Energy Savings	Unit	2028	2029	2030
[1]	Gas	Residential	Furnace	Gas Furnace (95% AFUE)	110		110	Therms			
[2]	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)	9		9	Therms			
[3]	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	23		23	Therms			
[4]	Gas	Commercial	Water Heater	Restaurant Water Heater (EF > .93)	613		613	Therms			
[5]	Gas	Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	597		597	Therms			
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Energy Conservation Forecast by Product

Note	Fuel	Customer Class	Program	Product	Per Unit Energy Savings	Over Code	Per Unit Expected Energy Savings	Unit	2031	2032	2033
[1]	Gas	Residential	Furnace	Gas Furnace (95% AFUE)	110		110	Therms			
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[8]	Electric	Residential	Water Heater	Electric Water Heater (> .95 EF)	0		0	kWh			
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Energy Conservation Forecast by Product

Note	Fuel	Customer Class	Program	Product	Per Unit Energy Savings	Over Code	Per Unit Expected Energy Savings	Unit	2034	2035	2036
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[2]	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)	9		9	Therms			
[3]	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	23		23	Therms			
[4]	Gas	Commercial	Water Heater	Restaurant Water Heater (EF > .93)	613		613	Therms			
[5]	Gas	Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	597		597	Therms			
[6]	Electric	Residential	Furnace	E2G Fuel Conv - Space Heat Only - Forced Air	8,500		8,500	kWh			
[7]	Electric	Residential	Water Heater	Tier 2 Heat Pump Water Heater	1,518		1,518	kWh			
[8]	Electric	Residential	Water Heater	Electric Water Heater (> .95 EF)	0		0	kWh			
[9]	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	3,500		3,500	kWh			
[10]	Electric	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	106		106	kWh			
[11]	Electric	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	630		630	kWh			
[12]	Electric	Commercial	Water Heater	Electric Water Heater (> 75 gallons, < 100 gallons, < 209 Btu/hr)	0		0	kWh			

REDACTED

Cumulative Deployment Forecast (Acceleration)

Note	Fuel	Customer Class	Program	Product	Unit	Years Accelerated	2016	2017	2018	2019
[1]	Gas	Residential	Furnace		Number of Units	6				
[2]	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)	Number of Units	6				
[3]	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	Number of Units	6				
[4]	Gas	Commercial	Water Heater	Restaurant Water Heater (EF > .93)	Number of Units					
[5]	Gas	Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	Number of Units					
[6]	Electric	Residential	Furnace		Number of Units					
[7]	Electric	Residential	Water Heater	Tier 2 Heat Pump Water Heater	Number of Units					
[8]	Electric	Residential	Water Heater	Electric Water Heater (> .95 EF)	Number of Units	6				
[9]	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	Number of Units					
[10]	Electric	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	Number of Units	8				
[11]	Electric	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	Number of Units					
[12]	Electric	Commercial	Water Heater		Number of Units					

REDACTED

REDACTED

Cumulative Deployment Forecast (Acceleration)

Note	Fuel	Customer Class	Program	Product	Unit	Years Accelerated	2020	2021	2022	2023
[1]	Gas	Residential	Furnace		Number of Units	6				
[2]	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)	Number of Units	6				
[3]	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	Number of Units	6				
[4]	Gas	Commercial	Water Heater	Restaurant Water Heater (EF > .93)	Number of Units	0				
[5]	Gas	Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	Number of Units	0				
[6]	Electric	Residential	Furnace		Number of Units	6				
[7]	Electric	Residential	Water Heater	Tier 2 Heat Pump Water Heater	Number of Units	6				
[8]	Electric	Residential	Water Heater	Electric Water Heater (> .95 EF)	Number of Units	6				
[9]	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	Number of Units	6				
[10]	Electric	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	Number of Units	8				
[11]	Electric	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	Number of Units	8				
[12]	Electric	Commercial	Water Heater		Number of Units	0				

Cumulative Deployment Forecast (Acceleration)

Note	Fuel	Customer Class	Program	Product	Unit	Years Accelerated	2024	2025	2026	2027
[1]	Gas	Residential	Furnace		Number of Units	6				
[2]	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)	Number of Units	6				
[3]	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	Number of Units	6				
[4]	Gas	Commercial	Water Heater	Restaurant Water Heater (EF > .93)	Number of Units	0				
[5]	Gas	Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	Number of Units	0				
[6]	Electric	Residential	Furnace		Number of Units	6				
[7]	Electric	Residential	Water Heater	Tier 2 Heat Pump Water Heater	Number of Units	6				
[8]	Electric	Residential	Water Heater	Electric Water Heater (> .95 EF)	Number of Units	6				
[9]	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	Number of Units	6				
[10]	Electric	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	Number of Units	8				
[11]	Electric	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	Number of Units	8				
[12]	Electric	Commercial	Water Heater		Number of Units	0				

REDACTED

Cumulative Deployment Forecast (Acceleration)

Note	Fuel	Customer Class	Program	Product	Unit	Years Accelerated	2028	2029	2030	2031
[1]	Gas	Residential	Furnace		Number of Units	6				
[2]	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)	Number of Units	6				
[3]	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	Number of Units	6				
[4]	Gas	Commercial	Water Heater	Restaurant Water Heater (EF > .93)	Number of Units	0				
[5]	Gas	Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	Number of Units	0				
[6]	Electric	Residential	Furnace		Number of Units	6				
[7]	Electric	Residential	Water Heater	Tier 2 Heat Pump Water Heater	Number of Units	6				
[8]	Electric	Residential	Water Heater	Electric Water Heater (> .95 EF)	Number of Units	6				
[9]	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	Number of Units	6				
[10]	Electric	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	Number of Units	8				
[11]	Electric	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	Number of Units	8				
[12]	Electric	Commercial	Water Heater		Number of Units	0				

REDACTED

Cumulative Deployment Forecast (Acceleration)

Note	Fuel	Customer Class	Program	Product	Unit	Years Accelerated	2032	2033	2034	2035
[1]	Gas	Residential	Furnace		Number of Units	6				
[2]	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)	Number of Units	6				
[3]	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	Number of Units	6				
[4]	Gas	Commercial	Water Heater	Restaurant Water Heater (EF > .93)	Number of Units	0				
[5]	Gas	Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	Number of Units	0				
[6]	Electric	Residential	Furnace		Number of Units	6				
[7]	Electric	Residential	Water Heater	Tier 2 Heat Pump Water Heater	Number of Units	6				
[8]	Electric	Residential	Water Heater	Electric Water Heater (> .95 EF)	Number of Units	6				
[9]	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	Number of Units	6				
[10]	Electric	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	Number of Units	8				
[11]	Electric	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	Number of Units	8				
[12]	Electric	Commercial	Water Heater		Number of Units	0				

REDACTED

Cumulative Deployment Forecast (Acceleration)

Note	Fuel	Customer Class	Program	Product	Unit	Years Accelerated	2036
[1]	Gas	Residential	Furnace		Number of Units	6	REDACTED
[2]	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)	Number of Units	6	REDACTED
[3]	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	Number of Units	6	REDACTED
[4]	Gas	Commercial	Water Heater	Restaurant Water Heater (EF > .93)	Number of Units	0	REDACTED
[5]	Gas	Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	Number of Units	0	REDACTED
[6]	Electric	Residential	Furnace		Number of Units	6	REDACTED
[7]	Electric	Residential	Water Heater	Tier 2 Heat Pump Water Heater	Number of Units	6	REDACTED
[8]	Electric	Residential	Water Heater	Electric Water Heater (> .95 EF)	Number of Units	6	REDACTED
[9]	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	Number of Units	6	REDACTED
[10]	Electric	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	Number of Units	8	REDACTED
[11]	Electric	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	Number of Units	8	REDACTED
[12]	Electric	Commercial	Water Heater		Number of Units	0	REDACTED

Cumulative Deployment Forecast

Note	Fuel	Customer Class	Program	Unit	2016	2017	2018	2019	2020	2021
[1]	Gas	Residential	Furnace	Number of Units	<div style="background-color: black; color: white; text-align: center; padding: 10px; font-weight: bold;"> REDACTED </div>					
[2]	Gas	Residential	Water Heater	Number of Units						
[3]	Gas	Commercial	Water Heater	Number of Units						
[4]	Electric	Residential	Furnace	Number of Units						
[5]	Electric	Residential	Water Heater	Number of Units						
[6]	Electric	Residential	Heat Pump	Number of Units						
[7]	Electric	Commercial	Water Heater	Number of Units						

Cumulative Deployment Forecast

Note	Fuel	Customer Class	Program	Unit	2022	2023	2024	2025	2026	2027
[1]	Gas	Residential	Furnace	Number of Units	REDACTED					
[2]	Gas	Residential	Water Heater	Number of Units						
[3]	Gas	Commercial	Water Heater	Number of Units						
[4]	Electric	Residential	Furnace	Number of Units						
[5]	Electric	Residential	Water Heater	Number of Units						
[6]	Electric	Residential	Heat Pump	Number of Units						
[7]	Electric	Commercial	Water Heater	Number of Units						

Cumulative Deployment Forecast

Note	Fuel	Customer Class	Program	Unit	2028	2029	2030	2031	2032	2033
[1]	Gas	Residential	Furnace	Number of Units	REDACTED					
[2]	Gas	Residential	Water Heater	Number of Units						
[3]	Gas	Commercial	Water Heater	Number of Units						
[4]	Electric	Residential	Furnace	Number of Units						
[5]	Electric	Residential	Water Heater	Number of Units						
[6]	Electric	Residential	Heat Pump	Number of Units						
[7]	Electric	Commercial	Water Heater	Number of Units						

Cumulative Deployment Forecast

Note	Fuel	Customer Class	Program	Unit	2034	2035	2036
[1]	Gas	Residential	Furnace	Number of Units	REDACTED	REDACTED	REDACTED
[2]	Gas	Residential	Water Heater	Number of Units	REDACTED	REDACTED	REDACTED
[3]	Gas	Commercial	Water Heater	Number of Units	REDACTED	REDACTED	REDACTED
[4]	Electric	Residential	Furnace	Number of Units	REDACTED	REDACTED	REDACTED
[5]	Electric	Residential	Water Heater	Number of Units	REDACTED	REDACTED	REDACTED
[6]	Electric	Residential	Heat Pump	Number of Units	REDACTED	REDACTED	REDACTED
[7]	Electric	Commercial	Water Heater	Number of Units	REDACTED	REDACTED	REDACTED

Cumulative Deployment Forecast

Note	Fuel	Customer Class	Program	Product	Note	Unit	Product Lifetime	2016	2017	2018	2019
[1]	Gas	Residential	Furnace			Number of Units	17				
[2]	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)		Number of Units	15				
[3]	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)		Number of Units	15				
[4]	Gas	Commercial	Water Heater	Restaurant Water Heater (EF > .93)		Number of Units	10				
[5]	Gas	Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)		Number of Units	10				
[6]	Electric	Residential	Furnace			Number of Units	17				
[7]	Electric	Residential	Water Heater	Tier 2 Heat Pump Water Heater		Number of Units	15				
[8]	Electric	Residential	Water Heater	Electric Water Heater (> .95 EF)		Number of Units	15				
[9]	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only		Number of Units	18				
[10]	Electric	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)		Number of Units	18				
[11]	Electric	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls		Number of Units	18				
[12]	Electric	Commercial	Water Heater			Number of Units	10				

REDACTED

Cumulative Deployment Forecast

Note	Fuel	Customer Class	Program	Product	Unit	Product Lifetime	2020	2021	2022	2023
[1]	Gas	Residential	Furnace		Number of Units	17				
[2]	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)	Number of Units	15				
[3]	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	Number of Units	15				
[4]	Gas	Commercial	Water Heater	Restaurant Water Heater (EF > .93)	Number of Units	10				
[5]	Gas	Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	Number of Units	10				
[6]	Electric	Residential	Furnace		Number of Units	17				
[7]	Electric	Residential	Water Heater	Tier 2 Heat Pump Water Heater	Number of Units	15				
[8]	Electric	Residential	Water Heater	Electric Water Heater (> .95 EF)	Number of Units	15				
[9]	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	Number of Units	15				
[10]	Electric	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	Number of Units	18				
[11]	Electric	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	Number of Units	18				
[12]	Electric	Commercial	Water Heater		Number of Units	10				

REDACTED

Cumulative Deployment Forecast

Note	Fuel	Customer Class	Program	Product	Unit	Product Lifetime	2024	2025	2026	2027
[1]	Gas	Residential	Furnace		Number of Units	17				
[2]	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)	Number of Units	15				
[3]	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	Number of Units	15				
[4]	Gas	Commercial	Water Heater	Restaurant Water Heater (EF > .93)	Number of Units	10				
[5]	Gas	Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	Number of Units	10				
[6]	Electric	Residential	Furnace		Number of Units	17				
[7]	Electric	Residential	Water Heater	Tier 2 Heat Pump Water Heater	Number of Units	15				
[8]	Electric	Residential	Water Heater	Electric Water Heater (> .95 EF)	Number of Units	15				
[9]	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	Number of Units	15				
[10]	Electric	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	Number of Units	18				
[11]	Electric	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	Number of Units	18				
[12]	Electric	Commercial	Water Heater		Number of Units	10				

REDACTED

Cumulative Deployment Forecast

Note	Fuel	Customer Class	Program	Product	Unit	Product Lifetime	2028	2029	2030	2031
[1]	Gas	Residential	Furnace		Number of Units	17				
[2]	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)	Number of Units	15				
[3]	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	Number of Units	15				
[4]	Gas	Commercial	Water Heater	Restaurant Water Heater (EF > .93)	Number of Units	10				
[5]	Gas	Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	Number of Units	10				
[6]	Electric	Residential	Furnace		Number of Units	17				
[7]	Electric	Residential	Water Heater	Tier 2 Heat Pump Water Heater	Number of Units	15				
[8]	Electric	Residential	Water Heater	Electric Water Heater (> .95 EF)	Number of Units	15				
[9]	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	Number of Units	15				
[10]	Electric	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	Number of Units	18				
[11]	Electric	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	Number of Units	18				
[12]	Electric	Commercial	Water Heater		Number of Units	10				

REDACTED

Cumulative Deployment Forecast

Note	Fuel	Customer Class	Program	Product	Unit	Product Lifetime	2032	2033	2034	2035
[1]	Gas	Residential	Furnace		Number of Units	17				
[2]	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)	Number of Units	15				
[3]	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	Number of Units	15				
[4]	Gas	Commercial	Water Heater	Restaurant Water Heater (EF > .93)	Number of Units	10				
[5]	Gas	Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	Number of Units	10				
[6]	Electric	Residential	Furnace		Number of Units	17				
[7]	Electric	Residential	Water Heater	Tier 2 Heat Pump Water Heater	Number of Units	15				
[8]	Electric	Residential	Water Heater	Electric Water Heater (> .95 EF)	Number of Units	15				
[9]	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	Number of Units	15				
[10]	Electric	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	Number of Units	18				
[11]	Electric	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	Number of Units	18				
[12]	Electric	Commercial	Water Heater		Number of Units	10				

REDACTED

Cumulative Deployment Forecast

Note	Fuel	Customer Class	Program	Product	Unit	Product Lifetime	2036
[1]	Gas	Residential	Furnace	Gas Water heater (> .62 EF)	Number of Units	17	REDACTED
[2]	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	Number of Units	15	REDACTED
[3]	Gas	Residential	Water Heater	Restaurant Water Heater (EF > .93)	Number of Units	15	REDACTED
[4]	Gas	Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	Number of Units	10	REDACTED
[5]	Gas	Commercial	Water Heater		Number of Units	10	REDACTED
[6]	Electric	Residential	Furnace	Tier 2 Heat Pump Water Heater	Number of Units	17	REDACTED
[7]	Electric	Residential	Water Heater	Electric Water Heater (> .95 EF)	Number of Units	15	REDACTED
[8]	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	Number of Units	15	REDACTED
[9]	Electric	Residential	Water Heater	Air Source Heat Pump (9.0 HSPF, 14 SEER)	Number of Units	15	REDACTED
[10]	Electric	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	Number of Units	18	REDACTED
[11]	Electric	Residential	Heat Pump		Number of Units	18	REDACTED
[12]	Electric	Commercial	Water Heater		Number of Units	10	REDACTED

Deployment Forecast (Accelerated)

Note	1996	1997	1998	1999	2000	2001
[1]	Adoption Curve -->					

	Fuel	Customer Class	Program	Product	Unit
[2]	Gas	Residential	Furnace		Number of Units
[3]	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)	Number of Units
[4]	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	Number of Units
[5]	Gas	Commercial	Water Heater	Restaurant Water Heater (EF > .93)	Number of Units
[6]	Gas	Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	Number of Units
[7]	Electric	Residential	Furnace		Number of Units
[8]	Electric	Residential	Water Heater	Tier 2 Heat Pump Water Heater	Number of Units
[9]	Electric	Residential	Water Heater	Electric Water Heater (> .95 EF)	Number of Units
[10]	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	Number of Units
[11]	Electric	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	Number of Units
[12]	Electric	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	Number of Units
[13]	Electric	Commercial	Water Heater		Number of Units

REDACTED

Deployment Forecast (Accelerated)

Note [1] Adoption Curve --> 2002 2003 2004 2005 2006 2007

	Fuel	Customer Class	Program	Product	Unit
[2]	Gas	Residential	Furnace		Number of Units
[3]	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)	Number of Units
[4]	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	Number of Units
[5]	Gas	Commercial	Water Heater	Restaurant Water Heater (EF > .93)	Number of Units
[6]	Gas	Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	Number of Units
[7]	Electric	Residential	Furnace		Number of Units
[8]	Electric	Residential	Water Heater	Tier 2 Heat Pump Water Heater	Number of Units
[9]	Electric	Residential	Water Heater	Electric Water Heater (> .95 EF)	Number of Units
[10]	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	Number of Units
[11]	Electric	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	Number of Units
[12]	Electric	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	Number of Units
[13]	Electric	Commercial	Water Heater		Number of Units

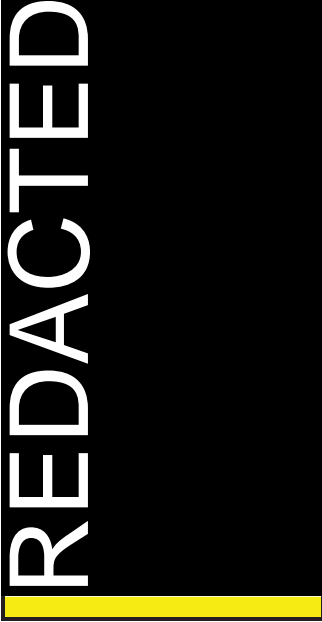
REDACTED

Deployment Forecast (Accelerated)

Note	2008	2009	2010	2011	2012	2013
[1]	Adoption Curve -->					
	Fuel	Customer Class	Program	Product	Unit	
[2]	Gas	Residential	Furnace		Number of Units	REDACTED
[3]	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)	Number of Units	
[4]	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	Number of Units	
[5]	Gas	Commercial	Water Heater	Restaurant Water Heater (EF > .93)	Number of Units	
[6]	Gas	Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	Number of Units	
[7]	Electric	Residential	Furnace		Number of Units	
[8]	Electric	Residential	Water Heater	Tier 2 Heat Pump Water Heater	Number of Units	
[9]	Electric	Residential	Water Heater	Electric Water Heater (> .95 EF)	Number of Units	
[10]	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	Number of Units	
[11]	Electric	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	Number of Units	
[12]	Electric	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	Number of Units	
[13]	Electric	Commercial	Water Heater		Number of Units	

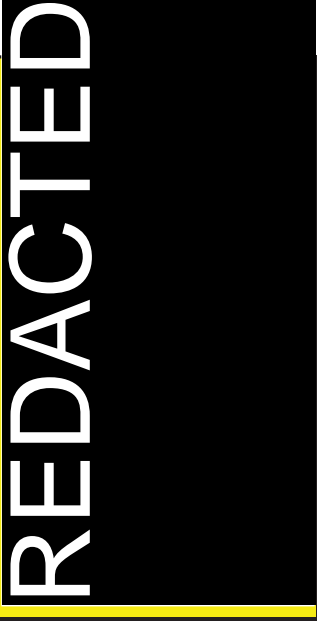
Deployment Forecast (Accelerated)

Note	Adoption Curve -->	2014	2015	2016	2017	2018	2019
[1]	Adoption Curve -->			50%	100%	100%	100%
Fuel	Customer Class	Program	Product	Unit			
[2]	Gas	Furnace		Number of Units			
[3]	Gas	Water Heater	Gas Water heater (> .62 EF)	Number of Units			
[4]	Gas	Water Heater	Gas Water heater (> .67 EF)	Number of Units			
[5]	Gas	Water Heater	Restaurant Water Heater (EF > .93)	Number of Units			
[6]	Gas	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	Number of Units			
[7]	Electric	Furnace		Number of Units			
[8]	Electric	Water Heater	Tier 2 Heat Pump Water Heater	Number of Units			
[9]	Electric	Water Heater	Electric Water Heater (> .95 EF)	Number of Units			
[10]	Electric	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	Number of Units			
[11]	Electric	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	Number of Units			
[12]	Electric	Heat Pump	Heat Pump Sizing & Lock out Controls	Number of Units			
[13]	Electric	Water Heater		Number of Units			



Deployment Forecast (Accelerated)

Note	Fuel	Customer Class	Program	Product	Unit	2020	2021	2022	2023	2024	2025
[1]	Adoption Curve -->										
[2]	Gas	Residential	Furnace								
[3]	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)	Number of Units						
[4]	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	Number of Units						
[5]	Gas	Commercial	Water Heater	Restaurant Water Heater (EF > .93)	Number of Units						
[6]	Gas	Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	Number of Units						
[7]	Electric	Residential	Furnace		Number of Units						
[8]	Electric	Residential	Water Heater	Tier 2 Heat Pump Water Heater	Number of Units						
[9]	Electric	Residential	Water Heater	Electric Water Heater (> .95 EF)	Number of Units						
[10]	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	Number of Units						
[11]	Electric	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	Number of Units						
[12]	Electric	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	Number of Units						
[13]	Electric	Commercial	Water Heater		Number of Units						



Deployment Forecast (Accelerated)

Note	Adoption Curve -->	2026	2027	2028	2029	2030	2031
[1]	Adoption Curve -->	100%	100%	100%	100%	100%	100%
Fuel	Customer Class	Program	Product	Unit			
[2]	Gas	Residential	Furnace		Number of Units		
[3]	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)	Number of Units		
[4]	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	Number of Units		
[5]	Gas	Commercial	Water Heater	Restaurant Water Heater (EF > .93)	Number of Units		
[6]	Gas	Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	Number of Units		
[7]	Electric	Residential	Furnace		Number of Units		
[8]	Electric	Residential	Water Heater	Tier 2 Heat Pump Water Heater	Number of Units		
[9]	Electric	Residential	Water Heater	Electric Water Heater (> .95 EF)	Number of Units		
[10]	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	Number of Units		
[11]	Electric	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	Number of Units		
[12]	Electric	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	Number of Units		
[13]	Electric	Commercial	Water Heater		Number of Units		



Deployment Forecast (Accelerated)

Note	2032	2033	2034	2035	2036
[1]	Adoption Curve -->	100%	100%	100%	100%
Fuel	Customer Class	Program	Product	Unit	
[2]	Gas	Residential	Furnace	Number of Units	REDACTED
[3]	Gas	Residential	Water Heater	Number of Units	
[4]	Gas	Residential	Water Heater	Number of Units	
[5]	Gas	Commercial	Water Heater	Number of Units	
[6]	Gas	Commercial	Water Heater	Number of Units	
[7]	Electric	Residential	Furnace	Number of Units	
[8]	Electric	Residential	Water Heater	Number of Units	
[9]	Electric	Residential	Water Heater	Number of Units	
[10]	Electric	Residential	Water Heater	Number of Units	
[11]	Electric	Residential	Heat Pump	Number of Units	
[12]	Electric	Residential	Heat Pump	Number of Units	
[13]	Electric	Commercial	Water Heater	Number of Units	
			Gas Water heater (> .62 EF)		
			Gas Water heater (> .67 EF)		
			Restaurant Water Heater (EF > .93)		
			Laundry Water Heater (thermal efficiency > 92%)		
			Tier 2 Heat Pump Water Heater		
			Electric Water Heater (> .95 EF)		
			Electric-to-Gas Fuel Conv - Water Heat Only		
			Air Source Heat Pump (9.0 HSPF, 14 SEER)		
			Heat Pump Sizing & Lock out Controls		

Deployment Forecast

Note	1996	1997	1998	1999	2000	2001
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[1] Adoption Curve -->

	Fuel	Customer Class	Program	Product	Unit
[2]	Gas	Residential	Furnace		Number of Units
[3]	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)	Number of Units
[4]	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	Number of Units
[5]	Gas	Commercial	Water Heater	Restaurant Water Heater (EF > .93)	Number of Units
[6]	Gas	Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	Number of Units
[7]	Electric	Residential	Furnace		Number of Units
[8]	Electric	Residential	Water Heater	Tier 2 Heat Pump Water Heater	Number of Units
[9]	Electric	Residential	Water Heater	Electric Water Heater (> .95 EF)	Number of Units
[10]	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	Number of Units
[11]	Electric	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	Number of Units
[12]	Electric	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	Number of Units
[13]	Electric	Commercial	Water Heater		Number of Units



Deployment Forecast

Note	2002	2003	2004	2005	2006	2007
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[1] Adoption Curve -->

	Fuel	Customer Class	Program	Product	Unit
[2]	Gas	Residential	Furnace		Number of Units
[3]	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)	Number of Units
[4]	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	Number of Units
[5]	Gas	Commercial	Water Heater	Restaurant Water Heater (EF > .93)	Number of Units
[6]	Gas	Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	Number of Units
[7]	Electric	Residential	Furnace		Number of Units
[8]	Electric	Residential	Water Heater	Tier 2 Heat Pump Water Heater	Number of Units
[9]	Electric	Residential	Water Heater	Electric Water Heater (> .95 EF)	Number of Units
[10]	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	Number of Units
[11]	Electric	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	Number of Units
[12]	Electric	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	Number of Units
[13]	Electric	Commercial	Water Heater		Number of Units

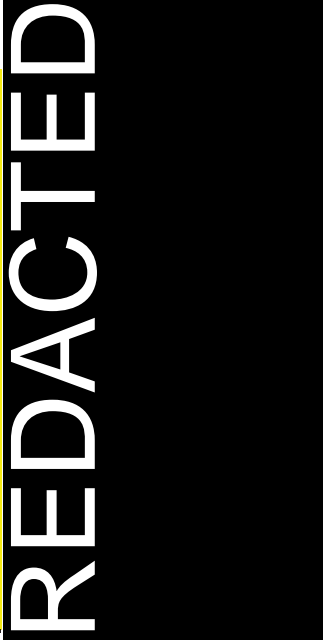


Deployment Forecast

Note	2008	2009	2010	2011	2012	2013
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[1] Adoption Curve -->

	Fuel	Customer Class	Program	Product	Unit
[2]	Gas	Residential	Furnace		Number of Units
[3]	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)	Number of Units
[4]	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	Number of Units
[5]	Gas	Commercial	Water Heater	Restaurant Water Heater (EF > .93)	Number of Units
[6]	Gas	Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	Number of Units
[7]	Electric	Residential	Furnace		Number of Units
[8]	Electric	Residential	Water Heater	Tier 2 Heat Pump Water Heater	Number of Units
[9]	Electric	Residential	Water Heater	Electric Water Heater (> .95 EF)	Number of Units
[10]	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	Number of Units
[11]	Electric	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	Number of Units
[12]	Electric	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	Number of Units
[13]	Electric	Commercial	Water Heater		Number of Units



Deployment Forecast

Note	Adoption Curve -->	2014	2015	2016	2017	2018	2019
[1]	Adoption Curve -->			50%	100%	100%	100%
Fuel	Customer Class	Program	Product	Unit			
[2]	Residential	Furnace		Number of Units			
[3]	Residential	Water Heater	Gas Water heater (> .62 EF)	Number of Units			
[4]	Residential	Water Heater	Gas Water heater (> .67 EF)	Number of Units			
[5]	Commercial	Water Heater	Restaurant Water Heater (EF > .93)	Number of Units			
[6]	Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	Number of Units			
[7]	Residential	Furnace		Number of Units			
[8]	Residential	Water Heater	Tier 2 Heat Pump Water Heater	Number of Units			
[9]	Residential	Water Heater	Electric Water Heater (> .95 EF)	Number of Units			
[10]	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	Number of Units			
[11]	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	Number of Units			
[12]	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	Number of Units			
[13]	Commercial	Water Heater		Number of Units			

REDACTED

Deployment Forecast

Note	Adoption Curve -->	2020	2021	2022	2023	2024	2025
[1]	Adoption Curve -->	100%	100%	100%	100%	100%	100%
Fuel	Customer Class	Program	Product	Unit			
[2]	Residential	Furnace		Number of Units			
[3]	Gas Residential	Water Heater	Gas Water heater (> .62 EF)	Number of Units			
[4]	Gas Residential	Water Heater	Gas Water heater (> .67 EF)	Number of Units			
[5]	Gas Commercial	Water Heater	Restaurant Water Heater (EF > .93)	Number of Units			
[6]	Gas Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	Number of Units			
[7]	Electric Residential	Furnace		Number of Units			
[8]	Electric Residential	Water Heater	Tier 2 Heat Pump Water Heater	Number of Units			
[9]	Electric Residential	Water Heater	Electric Water Heater (> .95 EF)	Number of Units			
[10]	Electric Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	Number of Units			
[11]	Electric Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	Number of Units			
[12]	Electric Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	Number of Units			
[13]	Electric Commercial	Water Heater		Number of Units			

REDACTED

REDACTED

Deployment Forecast

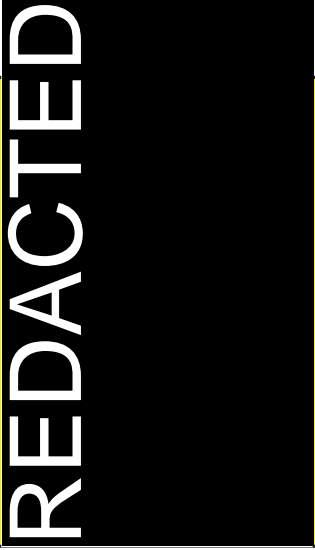
Note	Adoption Curve -->	2026	2027	2028	2029	2030	2031
[1]	Adoption Curve -->	100%	100%	100%	100%	100%	100%
Fuel	Customer Class	Program	Product	Unit			
[2]	Residential	Furnace		Number of Units			
[3]	Residential	Water Heater	Gas Water heater (> .62 EF)	Number of Units			
[4]	Residential	Water Heater	Gas Water heater (> .67 EF)	Number of Units			
[5]	Commercial	Water Heater	Restaurant Water Heater (EF > .93)	Number of Units			
[6]	Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	Number of Units			
[7]	Residential	Furnace		Number of Units			
[8]	Residential	Water Heater	Tier 2 Heat Pump Water Heater	Number of Units			
[9]	Residential	Water Heater	Electric Water Heater (> .95 EF)	Number of Units			
[10]	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	Number of Units			
[11]	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	Number of Units			
[12]	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	Number of Units			
[13]	Commercial	Water Heater		Number of Units			

REDACTED

REDACTED

Deployment Forecast

Note	Adoption Curve -->	2032	2033	2034	2035	2036
[1]	Adoption Curve -->	100%	100%	100%	100%	100%
Fuel	Customer Class	Program	Product	Unit		
[2]	Residential	Furnace		Number of Units		
[3]	Residential	Water Heater	Gas Water heater (> .62 EF)	Number of Units		
[4]	Residential	Water Heater	Gas Water heater (> .67 EF)	Number of Units		
[5]	Commercial	Water Heater	Restaurant Water Heater (EF > .93)	Number of Units		
[6]	Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	Number of Units		
[7]	Residential	Furnace		Number of Units		
[8]	Residential	Water Heater	Tier 2 Heat Pump Water Heater	Number of Units		
[9]	Residential	Water Heater	Electric Water Heater (> .95 EF)	Number of Units		
[10]	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	Number of Units		
[11]	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	Number of Units		
[12]	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	Number of Units		
[13]	Commercial	Water Heater		Number of Units		



Conversion Factors

Notes	Conversion Description	Value	Source
[1]	Therms per Mscf	10.00	PSE communication.
[2]	mmBtu per Mscf	1.03	PSE communication.
[3]	Therms per mmBtu	9.74	
[4]	kWh per MWh	1,000.00	
[5]	Pounds per Ton	2,000.00	
[6]	kg per Ton	907.19	
[7]	Tons per metric ton	1.10	
[8]	CH4 Global Warming Potential	25.00	Code of Federal Regulations, "Table A-1," 40 CFR Part 98, accessed February 17, 2016, http://www.ecfr.gov/cgi-bin/text-idx?SID=84ba9ed7171e6c6d2ab3e7153ae08e9c&mc=true&node=ap40.21.98_19.1&rgn=div9 .
[9]	N2O Global Warming Potential	298.00	Code of Federal Regulations, "Table A-1," 40 CFR Part 98, accessed February 17, 2016, http://www.ecfr.gov/cgi-bin/text-idx?SID=84ba9ed7171e6c6d2ab3e7153ae08e9c&mc=true&node=ap40.21.98_19.1&rgn=div9 .

Assumptions

Note	Class	Value Description	Unit	Value Source	Note
[1]	All	Discount Rate	Percent	7.77% PSE's commission-approved ROR.	Used for NPV calculations.
[2]	All	Savings Adjustment	Percent	Assumption.	Assume that the average unit purchased saves this percent of the energy that the PSE lease option does relative to code.
[3]	All	Incremental Savings of Acceleration	Percent	Assumption.	
[4]	All	Electric Generation Capacity Price	\$/kW-yr	DSR Electric Avoided Costs 2015 v2-RAB.xlsx Exhibit	Inflated at 2.5% to 2016 \$.
[5]	All	Electric Distribution Capacity Price	\$/kW-yr	2_Supplement1_AppendixA_AvoidedCostCalculations_RA B	Inflated at 2.5% to 2016 \$.
[6]	All	Gas Generation Capacity Price	\$/Therm	Assumption.	
[7]	All	Gas Distribution Capacity Price	\$/Therm	Assumption.	
[8]	All	Electricity Generation Demand Window	Annual Hours	PSE peak hour.	Hours used to define the system peak for calculating electricity generation capacity prices.
[9]	All	Electricity Distribution Demand Window	Annual Hours	PSE peak hour.	Hours used to define the system peak for calculating electricity distribution capacity prices.
[10]	All	Gas Generation Demand Window	Annual Hours	PSE communication.	
[11]	All	Gas Distribution Demand Window	Annual Hours	PSE peak day.	
[12]	Residential	Annual Energy Use of a Gas Furnace	Therms	KEMA Impact Evaluation. November 5, 2008. P. 5-25.	This value will be multiplied by the number of electric to gas conversions and deducted from the energy savings of the gas furnace program.
[13]	Residential	Annual Energy Use of a Gas Water Heater	Therms	DOE Water Heater Calculator. Assumes EF 0.59. http://energy.gov/eere/femp/energy-cost-calculator-electric-and-gas-water-heaters-0#output	This value will be multiplied by the number of electric to gas conversions and deducted from the energy savings of the gas water heater program.
[14]	All	2014 CO ₂ Emissions (Electric)	lb/kWh	http://pse.com/aboutpse/Environment/Pages/Greenhouse e-Gas-Policy.aspx	
[15]	All	2013 CO ₂ Emissions (Electric)	lb/kWh	http://pse.com/aboutpse/Environment/Pages/Greenhouse e-Gas-Policy.aspx	
[16]	All	2012 CO ₂ Emissions (Electric)	lb/kWh	http://pse.com/aboutpse/Environment/Pages/Greenhouse e-Gas-Policy.aspx	
[17]	All	Three-Year Average CO ₂ Emissions (Electric)	Tons/kWh	Calculation.	$([14] + [15] + [16]) / 3$ / 2000

Assumptions

Note	Class	Value Description	Unit	Value Source	Note
[18]	All	CO ₂ Emissions (Gas)	kg/mmBtu	REDACTED Factors developed by EPA for the Mandatory Reporting Rule (40 CFR Part 98). Calculation.	[18] / 907.185 / 9.737098344469328
[19]	All	CO ₂ Emissions (Gas)	Tons/Therm	REDACTED Factors developed by EPA for the Mandatory Reporting Rule (40 CFR Part 98). Calculation.	[20] / 907.185 / 9.737098344469328
[20]	All	CH ₄ Emissions (Gas)	kg/mmBtu	REDACTED PSE communication.	
[21]	All	CH ₄ Emissions (Gas)	Tons/Therm	REDACTED Factors developed by EPA for the Mandatory Reporting Rule (40 CFR Part 98). Calculation.	[23] / 907.185 / 9.737098344469328
[22]	All	CH ₄ Emissions (Electric)	Tons/kWh	REDACTED PSE communication.	
[23]	All	N ₂ O Emissions (Gas)	kg/mmBtu	REDACTED Factors developed by EPA for the Mandatory Reporting Rule (40 CFR Part 98). Calculation.	[23] / 907.185 / 9.737098344469328
[24]	All	N ₂ O Emissions (Gas)	Tons/Therm	REDACTED PSE communication.	
[25]	All	N ₂ O Emissions (Electric)	Tons/kWh	REDACTED PSE communication.	
[26]	All	PSE IRP Inflation Rate	Percent	REDACTED Puget Sound Energy, "2015 Integrated Resource Plan - Appendix N: Electric Analysis," November 30, 2015, p. N-37, http://pse.com/aboutpse/EnergySupply/Documents/IRP_2015_AppN.pdf .	Used to convert the wholesale electricity price into real, \$2016 dollars.
[27]	All	Adder - Renewable Credit	\$/MWh	REDACTED PSE communication.	Used to adjust the wholesale electricity price.
[28]	All	Adder - Conservation Credit	Percent	REDACTED PSE communication.	Used to adjust the wholesale electricity price.

Annual Adoption Curves (% of Potential

Year	Adoption (% of Potential)
2016	
2017	
2018	
2019	
2020	
2021	
2022	
2023	
2024	
2025	
2026	
2027	
2028	
2029	
2030	
2031	
2032	
2033	
2034	
2035	
2036	

Market Size and Lease Market Share

	Program	Product	Total Premise Count	Product Market Share	Share in Product
			[1]	[2]	[3]
[A]	Gas	Furnace	1,312,189	REDACTED	REDACTED
[B]	Gas	Water Heater	1,312,189	REDACTED	REDACTED
[C]	Gas	Water Heater	1,312,189	REDACTED	REDACTED
[D]	Gas	Water Heater	149,884	REDACTED	REDACTED
[E]	Gas	Water Heater	149,884	REDACTED	REDACTED
[F]	Electric	Furnace	1,312,189	REDACTED	REDACTED
[G]	Electric	Water Heater	1,312,189	REDACTED	REDACTED
[H]	Electric	Water Heater	1,312,189	REDACTED	REDACTED
[I]	Electric	Water Heater	1,312,189	REDACTED	REDACTED
[J]	Electric	Heat Pump	1,312,189	REDACTED	REDACTED
[K]	Electric	Heat Pump	1,312,189	REDACTED	REDACTED
[L]	Electric	Water Heater	149,884	REDACTED	REDACTED
		Gas Water heater (> .62 EF)			
		Gas Water heater (> .67 EF)			
		Restaurant Water Heater (EF > .93)			
		Laundry Water Heater (thermal efficiency > 92%)			
		Tier 2 Heat Pump Water Heater			
		Electric Water Heater (> .95 EF)			
		Electric-to-Gas Fuel Conv - Water Heat Only			
		Air Source Heat Pump (9.0 HSPF, 14 SEER)			
		Heat Pump Sizing & Lock out Controls			

Sources and Notes:

- [1]: See the 'Market_Size_Inputs' tab.
- [2]: See the 'Market_Size_Inputs' tab.
- [3]: See the 'Vendor_EE_Adjustments' tab.
- [4]: See the 'Vendor_EE_Adjustments' tab.
- [5]: See the 'Vendor_EE_Adjustments' tab.
- [6]: See the 'Lease_Market_Share_Inputs' tab.
- [7]: See the 'Lease_Market_Share_Inputs' tab.
- [8]: Calculated as (1 / Product Lifetime). See the 'Market_Size_Inputs' tab.
- [9]: Calculated as the product of [1] thorough [8].
- [10]: See the 'Acceleration_Inputs' tab.
- [11]: Calculated as the product of [9] and [10].

Energy Prices, \$2016

Year	Wholesale Electric \$/kWh	Wholesale Gas \$/therm	Retail Electric, Res \$/kWh	Retail Gas, Res \$/therm	Retail Electric, Comm \$/kWh	Retail Gas, Comm \$/therm	CO2 \$/ton	CH4 \$/ton	N2O \$/ton
2016	REDACTED								
2017									
2018									
2019									
2020									
2021									
2022									
2023									
2024									
2025									
2026									
2027									
2028									
2029									
2030									
2031									
2032									
2033									
2034									
2035									
2036									

Acceleration Inputs

Notes	Value Description	Fuel	Customer Class	Program	Product	Unit	Value Source
[1]	Median Additional Years over Useful Life	Gas	Residential	Furnace		Years	REDACTED
[2]	Median Additional Years over Useful Life	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)	Years	
[3]	Median Additional Years over Useful Life	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	Years	
[4]	Median Additional Years over Useful Life	Gas	Commercial	Water Heater	Restaurant Water Heater (EF > .93)	Years	Assume that commercial installations would not be accelerated by the leasing program.
[5]	Median Additional Years over Useful Life	Gas	Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	Years	
[6]	Median Additional Years over Useful Life	Electric	Residential	Furnace		Years	
[7]	Median Additional Years over Useful Life	Electric	Residential	Water Heater	Tier 2 Heat Pump Water Heater	Years	
[8]	Median Additional Years over Useful Life	Electric	Residential	Water Heater	Electric Water Heater (> .95 EF)	Years	
[9]	Median Additional Years over Useful Life	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	Years	
[10]	Median Additional Years over Useful Life	Electric	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	Years	
[11]	Median Additional Years over Useful Life	Electric	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	Years	
[12]	Median Additional Years over Useful Life	Electric	Commercial	Water Heater		Years	Assume that commercial installations would not be accelerated by the leasing program.
[13]	Probability of Acceleration	Gas	Residential	Furnace		Percent	
[14]	Probability of Acceleration	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)	Percent	
[15]	Probability of Acceleration	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	Percent	
[16]	Probability of Acceleration	Gas	Commercial	Water Heater	Restaurant Water Heater (EF > .93)	Percent	Assume that commercial installations would not be accelerated by the leasing program.
[17]	Probability of Acceleration	Gas	Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	Percent	
[18]	Probability of Acceleration	Electric	Residential	Furnace		Percent	
[19]	Probability of Acceleration	Electric	Residential	Water Heater	Tier 2 Heat Pump Water Heater	Percent	
[20]	Probability of Acceleration	Electric	Residential	Water Heater	Electric Water Heater (> .95 EF)	Percent	
[21]	Probability of Acceleration	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	Percent	
[22]	Probability of Acceleration	Electric	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	Percent	Assume that commercial installations would not be accelerated by the leasing program.

Acceleration Inputs

Notes	Value Description	Fuel	Customer Class	Program	Product	Unit	Value Source
[23]	Probability of Acceleration	Electric	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	Percent	REDACTED
[24]	Probability of Acceleration	Electric	Commercial	Water Heater		Percent	Assume that commercial installations would not be accelerated by the leasing program.
[25]	Percent of Equipment Past Useful Life	Gas	Residential	Furnace		Percent	
[26]	Percent of Equipment Past Useful Life	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)	Percent	
[27]	Percent of Equipment Past Useful Life	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	Percent	
[28]	Percent of Equipment Past Useful Life	Gas	Commercial	Water Heater	Restaurant Water Heater (EF > .93)	Percent	Assume that commercial installations would not be accelerated by the leasing program.
[29]	Percent of Equipment Past Useful Life	Gas	Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	Percent	Assume that commercial installations would not be accelerated by the leasing program.
[30]	Percent of Equipment Past Useful Life	Electric	Residential	Furnace		Percent	
[31]	Percent of Equipment Past Useful Life	Electric	Residential	Water Heater	Tier 2 Heat Pump Water Heater	Percent	
[32]	Percent of Equipment Past Useful Life	Electric	Residential	Water Heater	Electric Water Heater (> .95 EF)	Percent	
[33]	Percent of Equipment Past Useful Life	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	Percent	
[34]	Percent of Equipment Past Useful Life	Electric	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	Percent	
[35]	Percent of Equipment Past Useful Life	Electric	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	Percent	
[36]	Percent of Equipment Past Useful Life	Electric	Commercial	Water Heater		Percent	Assume that commercial installations would not be accelerated by the leasing program.

Notes:

Acceleration probabilities were not broken out by fuel type or product. Age distribution was not broken out by product, and not by fuel type for water heaters.
 "Median Additional Years over Useful Life" is calculated as the difference between the median age of equipment over the useful life of the equipment and the useful life of the equipment. For water heaters, useful life is calculated as the average of product lifetimes for both fuel types.
 "Probability of Acceleration" is calculated as the proportion of people with equipment past the useful life who said they would "definitely/probably" replace their equipment early under the proposed leasing program.
 "Percent of Equipment past Useful Life" is calculated as the proportion of equipment past the useful life for each program.

Capacity Inputs

Notes Fuel Customer Class Program Product Share of Conservation Coincident with Generation Peak Share of Conservation Coincident with Source Distribution Peak

[1]	Gas	Residential	Furnace	All					Exhibit2_Supplement1_AppendixB_RAB
[2]	Gas	Residential	Water Heater	All					Exhibit2_Supplement1_AppendixB_RAB
[3]	Gas	Commercial	Water Heater	All					Exhibit2_Supplement1_AppendixB_RAB
[4]	Electric	Residential	Furnace	All					Exhibit2_Supplement1_AppendixB_RAB
[5]	Electric	Residential	Water Heater	All					Exhibit2_Supplement1_AppendixB_RAB
[6]	Electric	Residential	Heat Pump	All					Exhibit2_Supplement1_AppendixB_RAB
[7]	Electric	Commercial	Water Heater	DRY_GOODS_RETAIL_WATER_HEAT					Exhibit2_Supplement1_AppendixB_RAB
[8]	Electric	Commercial	Water Heater	GROCERY_WATER_HEAT					Exhibit2_Supplement1_AppendixB_RAB
[9]	Electric	Commercial	Water Heater	HOSPITAL_WATER_HEAT					Exhibit2_Supplement1_AppendixB_RAB
[10]	Electric	Commercial	Water Heater	HOTEL_MOTEL_WATER_HEAT					Exhibit2_Supplement1_AppendixB_RAB
[11]	Electric	Commercial	Water Heater	OFFICE_WATER_HEAT					Exhibit2_Supplement1_AppendixB_RAB
[12]	Electric	Commercial	Water Heater	OTHER_WATER_HEAT					Exhibit2_Supplement1_AppendixB_RAB
[13]	Electric	Commercial	Water Heater	RESTAURANT_WATER_HEAT					Exhibit2_Supplement1_AppendixB_RAB
[14]	Electric	Commercial	Water Heater	SCHOOL_WATER_HEAT					Exhibit2_Supplement1_AppendixB_RAB
[15]	Electric	Commercial	Water Heater	UNIVERSITY_WATER_HEAT					Exhibit2_Supplement1_AppendixB_RAB
[16]	Electric	Commercial	Water Heater	WAREHOUSE_WATER_HEAT					Exhibit2_Supplement1_AppendixB_RAB
[17]	Electric	Commercial	Water Heater	All					Average of [7] - [16]



Notes:

[4]-[16]: The DSR December peak reduction is based on the average of the very heavy load hours (VHLH). The VHLH method takes the average of the five-hour morning peak from hour ending 7 a.m. to hour ending 11 a.m. and the five-hour evening peak from hour ending 6 p.m. to hour ending 10 p.m. Monday through Friday. These coincidence factors reflect these assumptions.

[17]: Does not consider school, hospital, university, or warehouse.

Market Size Inputs

Notes	Value Description	Fuel	Customer Class	Program	Unit	Value Source
[1]	Premise Count	Both	Residential	All	Number of Premises	356,422 PSE Factbook 2012.
[2]	Premise Count	Gas	Residential	All	Number of Premises	354,169 PSE Factbook 2012.
[3]	Premise Count	Electric	Residential	All	Number of Premises	601,598 PSE Factbook 2012.
[4]	Premise Count	Both	Commercial	All	Number of Premises	25,554 PSE Factbook 2012.
[5]	Premise Count	Gas	Commercial	All	Number of Premises	31,346 PSE Factbook 2012.
[6]	Premise Count	Electric	Commercial	All	Number of Premises	92,984 PSE Factbook 2012.
[7]	Premise Count	All	Residential	All	Number of Premises	1,312,189 [1] + [2] + [3]
[8]	Premise Count	All	Commercial	All	Number of Premises	149,884 [4] + [5] + [6]
[9]	Technology Penetration	All	Residential	Water Heater	Percent	REDACTED RBSA/PSE Factbook 2012.
[10]	Technology Penetration	All	Commercial	Water Heater	Percent	CBSA.
[11]	Technology Penetration by Fuel Type Among Premises with Technology	Gas	Residential	Water Heater	Percent	RBSA/PSE Factbook 2012.
[12]	Technology Penetration by Fuel Type Among Premises with Technology	Gas	Commercial	Water Heater	Percent	CBSA.
[13]	Technology Penetration by Fuel Type Among Premises with Technology	Electric	Residential	Water Heater	Percent	RBSA/PSE Factbook 2012.
[14]	Technology Penetration by Fuel Type Among Premises with Technology	Electric	Commercial	Water Heater	Percent	CBSA.
[15]	Product Market Share	Gas	Residential	Furnace	Percent	RBSA/PSE Factbook 2012.
[16]	Product Market Share	Gas	Residential	Water Heater	Percent	[9] * [11]
[17]	Product Market Share	Gas	Commercial	Water Heater	Percent	[10] * [12]
[18]	Product Market Share	Electric	Residential	Furnace	Percent	RBSA/PSE Factbook 2012.
[19]	Product Market Share	Electric	Residential	Water Heater	Percent	[9] * [13]
[20]	Product Market Share	Electric	Residential	Heat Pump	Percent	RBSA/PSE Factbook 2012.
[21]	Product Market Share	Electric	Commercial	Water Heater	Percent	[10] * [14]
[22]	Product Lifetime	Gas	Residential	Furnace	Years	PSE SMEs.
[23]	Product Lifetime	Gas	Residential	Water Heater	Years	PSE SMEs.
[24]	Product Lifetime	Gas	Commercial	Water Heater	Years	PSE SMEs.
[25]	Product Lifetime	Electric	Residential	Furnace	Years	PSE SMEs.
[26]	Product Lifetime	Electric	Residential	Water Heater	Years	PSE SMEs.
[27]	Product Lifetime	Electric	Commercial	Water Heater	Years	PSE SMEs.
[28]	Product Lifetime	Electric	Residential	Heat Pump	Years	PSE SMEs.

Lease Market Share Inputs

Notes	Value Description	Fuel	Customer Class	HVAC	Program	Product	Unit	Value Source
[1]	Lease Likelihood	All	Residential	HVAC (heating)	Furnace		Percent	REDACTED PSE Customer Survey.
[2]	Lease Likelihood	All	Residential	Water Heater	Water Heater		Percent	PSE Customer Survey.
[3]	Lease Likelihood	All	Commercial	Water Heater	Water Heater		Percent	PSE Customer Survey.
[4]	Lease Likelihood	All	Residential	HVAC (heating)	Heat Pump		Percent	PSE Customer Survey.
[5]	Debt Eligibility	All	All	All	All		Percent	PSE Analysis.

Notes:

[3]: Phase 1 survey.

[5]: Assumes the same share for residential and commercial. This share represents PSE customers with "Good" credit worthiness rating.

Energy Savings Inputs

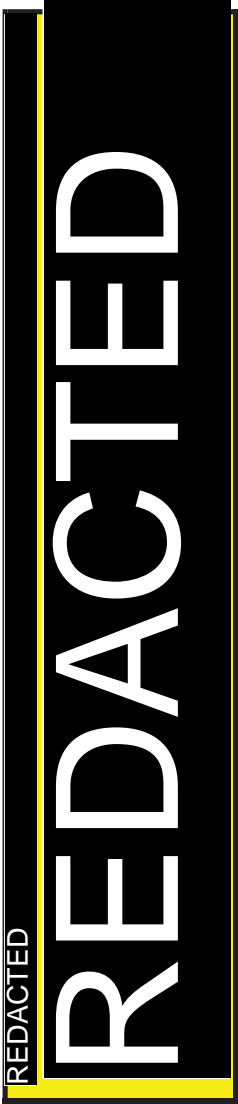
Notes	Value Description	Fuel	Customer Class	Program	Product	Unit	Value Source
[1]	Energy Savings	Gas	Residential	Furnace	Gas Furnace (95% AFUE)	Therms	REDACTED PSE approved value.
[2]	Energy Savings	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)	Therms	DOE Calculator: http://www.energy.gov/eere/femp/energy-cost-calculator-electric-and-gas-water-heaters-0#output
[3]	Energy Savings	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	Therms	DOE Calculator: http://www.energy.gov/eere/femp/energy-cost-calculator-electric-and-gas-water-heaters-0#output
[4]	Energy Savings	Gas	Commercial	Water Heater	Restaurant Water Heater (EF > .93)	Therms	PSE approved value.
[5]	Energy Savings	Gas	Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	Therms	PSE approved value.
[6]	Energy Savings	Electric	Residential	Furnace	E2G Fuel Conv - Space Heat Only - Forced Air	KWh	PSE approved value.
[7]	Energy Savings	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	KWh	PSE approved value.
[8]	Energy Savings	Electric	Residential	Water Heater	Tier 2 Heat Pump Water Heater	KWh	PSE approved value.
[9]	Energy Savings	Electric	Residential	Water Heater	Electric Water Heater (> .95 EF)	KWh	PSE approved value.
[10]	Energy Savings	Electric	Residential	Heat Pump	Air Source Heat Pump (9.0 HSPF, 14 SEER)	KWh	PSE approved value.
[11]	Energy Savings	Electric	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	KWh	PSE approved value.
[12]	Energy Savings	Electric	Commercial	Water Heater	Electric Water Heater (> 75 gallons, < 100 gallons, < 209 Btu/hr)	KWh	PSE approved value.

Assumptions Based on Information from Vendors and PSE input

Notes	Value Description	Fuel	Class	Program	Product	Value Source
[1]	Share of Forecast to Be Installed	Gas	Residential	Furnace		REDACTED Vendor feedback.
[2]	Share of Forecast to Be Installed	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)	Vendor feedback.
[3]	Share of Forecast to Be Installed	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	Vendor feedback.
[4]	Share of Program in Product	Gas	Residential	Water Heater	Gas Water heater (> .62 EF)	Vendor feedback.
[5]	Share of Program in Product	Gas	Residential	Water Heater	Gas Water heater (> .67 EF)	Vendor feedback.
[6]	Share of Forecast to Be Installed	Gas	Commercial	Water Heater	Restaurant Water Heater (EF > .93)	PSE EE input
[7]	Share of Forecast to Be Installed	Gas	Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	PSE EE input
[8]	Share of Program in Product	Gas	Commercial	Water Heater	Restaurant Water Heater (EF > .93)	PSE EE input
[9]	Share of Program in Product	Gas	Commercial	Water Heater	Laundry Water Heater (thermal efficiency > 92%)	PSE EE input
[10]	Share of Forecast to Be Installed - Vendor	Electric	Residential	Furnace		PSE EE input
[11]	Share of Vendor Forecast to Be Installed	Electric	Residential	Furnace		Vendor feedback.
[12]	Share of Forecast to Be Installed	Electric	Residential	Furnace		Vendor feedback.
[13]	Share of Program in Product	Electric	Residential	Water Heater	Tier 2 Heat Pump Water Heater	Vendor feedback.
[14]	Share of Program in Product	Electric	Residential	Water Heater	Electric Water Heater (> .95 EF)	Vendor feedback.
[15]	Share of Program in Product	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	Vendor feedback.
[16]	Share of Product Meeting Conversion Qualifications	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	Vendor feedback.
[17]	Share of Forecast to Be Installed	Electric	Residential	Water Heater	Electric-to-Gas Fuel Conv - Water Heat Only	PSE EE input
[18]	Share of Forecast to Be Installed	Electric	Residential	Heat Pump	Heat Pump Sizing & Lock out Controls	Vendor feedback.

Age Distribution of Heating Equipment

	[1]		[2]	
	Natural Gas Furnace	Fuel Type Electric Furnace	Acceleration (Replace/Early)	Def/Prob Not
Total Answering				
Less than 5 years old				
6-10 years old				
11-15 years old				
16-20 years old				
20+ years old				



Source: Perkins Coie/Puget Sound Energy Equipment Leasing Survey, Table Q12 Page 12.

Notes:

[1]: See "CONFIDENTIAL 3.Equipment Leasing Crosstab Banner 1.rtf."

[2]: See "CONFIDENTIAL 4.Equipment Leasing Crosstab Banner 2.rtf."

Age Distribution of Hot Water Heater

	Acceleration (Replace/Early)	
	Def/Prob Yes	Def/Prob Not
Total Answering	98	142
Less than 5 years old	17	46
6-10 years old	39	35
11-15 years old	23	41
16-20 years old	15	15
20+ years old	4	5

Source: Perkins Coie/Puget Sound Energy Equipment Leasing Survey, Table Q32 Page 39.

Note: See "CONFIDENTIAL 4.Equipment Leasing Crosstab Banner 2.rtf."

**Monthly Flat Mid-C Prices
(Nominal \$/MWh)**

Base + No CO2 Scenario	
	Ave
2016	32.63
2017	33.58
2018	34.62
2019	35.85
2020	37.52
2021	40.58
2022	42.71
2023	44.54
2024	46.52
2025	48.99
2026	57.37
2027	59.11
2028	59.95
2029	63.35
2030	64.92
2031	67.24
2032	69.37
2033	72.01
2034	74.04
2035	76.82

Source: Puget Sound Energy, "2015 Integrated Resource Plan - Appendix N: Electric Analysis," November 30, 2015, p. N-55,
http://pse.com/aboutpse/EnergySupply/Documents/IRP_2015_AppN.pdf.

Natural Gas Wholesale Price Forecast

2016 - 2019 Prices = 3 month average forward marks from Aug 15 thru Nov 14 30, 2014 (65 business days)
 REDACTED = Wood Mackenzie Fall 2014 Long Term View Price Update

Sumas Nominal Prices

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2016	4.442	4.226	4.149	3.483	3.433	3.447	3.701	3.702	3.661	3.735	4.319	4.681
2017	4.637	4.420	4.380	3.697	3.654	3.653	3.687	3.769	3.874	4.023	4.345	4.599
2018	4.656	4.458	4.219	3.855	3.830	3.836	3.869	3.930	4.009	4.142	4.464	4.719
2019	4.769	4.571	4.332	3.960	3.938	3.943	3.975	4.039	4.119	4.255	4.586	4.857

REDACTED

2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
2033
2034
2035

Source: Puget Sound Energy, "(C/H) WOODMAC NATURAL GAS WHOLESALE PRICE FORECAST," received from PSE February 22, 2016.

Electric and Gas Retail and Commercial Rate Forecasts

	10k	10k	10k	10k	2015	2016	2017	2018
	2012	2013	2014	2014	2015	2016	2017	2018
Electric \$/kwh								
Residential	0.1036	0.1038	0.0995	0.1024	0.1054	0.1085	0.1117	
Commercial	0.0938	0.0934	0.0936	0.0951	0.0967	0.0982	0.0998	
<i>Resi growth (internal future view)</i>			3%					
<i>Comm growth (internal future view)</i>			2%					
Gas \$/therm								
Residential	1.252	1.192	1.221	1.251	1.281	1.313	1.345	
Commercial	1.093	1.015	1.042	1.060	1.079	1.098	1.117	
<i>Resi growth (internal future view)</i>			2%					
<i>Comm growth (internal future view)</i>			2%					

Source: Puget Sound Energy, "Retail and Commercial rates," February 17, 2016.

Electric and Gas Retail and Commercial Rate Forecasts

	2019	2020	2021	2022	2023	2024	2025
Electric \$/kwh							
Residential	0.1150	0.1184	0.1219	0.1254	0.1291	0.1329	0.1368
Commercial	0.1014	0.1031	0.1048	0.1065	0.1082	0.1099	0.1117
<i>Resi growth (internal future view)</i>							
<i>Comm growth(internal future view)</i>							
Gas \$/therm							
Residential	1.377	1.411	1.445	1.481	1.517	1.554	1.592
Commercial	1.137	1.157	1.177	1.197	1.218	1.240	1.262
<i>Resi growth (internal future view)</i>							
<i>Comm growth(internal future view)</i>							

Source: Puget Sound Energy, "Retail and Commercial rates," February 17, 2016.

Electric and Gas Retail and Commercial Rate Forecasts

	2026	2027	2028	2029	2030	2031	2032
Electric \$/kwh							
Residential	0.1408	0.1450	0.1492	0.1536	0.1581	0.1628	0.1676
Commercial	0.1135	0.1154	0.1173	0.1192	0.1211	0.1231	0.1250
<i>Resi growth (internal future view)</i>							
<i>Comm growth(internal future view)</i>							
Gas \$/therm							
Residential	1.630	1.670	1.711	1.753	1.795	1.839	1.884
Commercial	1.284	1.306	1.329	1.352	1.376	1.400	1.425
<i>Resi growth (internal future view)</i>							
<i>Comm growth(internal future view)</i>							

Source: Puget Sound Energy, "Retail and Commercial rates," February 17, 2016.

Electric and Gas Retail and Commercial Rate Forecasts

	2033	2034	2035
Electric \$/kwh			
Residential	0.1725	0.1775	0.1828
Commercial	0.1271	0.1291	0.1312
<i>Resi growth (internal future view)</i>			
<i>Comm growth(internal future view)</i>			
Gas \$/therm			
Residential	1.930	1.977	2.025
Commercial	1.450	1.475	1.501
<i>Resi growth (internal future view)</i>			
<i>Comm growth(internal future view)</i>			

Source: Puget Sound Energy, "Retail and Commercial rates," February 17, 2016.

**Figure N-15: Annual CO₂ Costs
(Nominal \$/ton)**

	Base
2016	13.31
2017	14.32
2018	15.41
2019	16.59
2020	17.85
2021	19.22
2022	20.68
2023	22.26
2024	23.96
2025	25.78
2026	27.75
2027	29.86
2028	32.14
2029	34.59
2030	37.23
2031	40.07
2032	43.12
2033	46.41
2034	49.95
2035	53.76

Source: Puget Sound Energy, "2015
Integrated Resource Plan - Appendix N:
Electric Analysis," November 30, 2015, p. N-
29,
[http://pse.com/aboutpse/EnergySupply/Do
cuments/IRP_2015_AppN.pdf](http://pse.com/aboutpse/EnergySupply/Documents/IRP_2015_AppN.pdf).