

Florida Annual Energy Savings:

Electric vs. Natural Gas Water Heating

2024 ENERGY COST SIMULATION RESULTS



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Electric Tank 90% Efficiency vs. Natural Gas Tankless 98% Efficiency

The simulation data offers a detailed glimpse into the substantial savings achievable by transitioning from electric storage water heaters to tankless natural gas models across various cities in Florida.

Specifics:

- In Jacksonville, the current annual cost for water heating stands at \$88,596, but by making the switch to tankless natural gas, the projected annual cost plummets to \$29,953, resulting in estimated savings of \$58,643 annually, equating to a remarkable 66% reduction in expenses.
- Similarly, in Miami, the transition leads to projected annual savings of \$48,109, with a corresponding 66% decrease in costs.
- Orlando, Sarasota, Tallahassee, and Tampa all showcase consistent patterns, with projected annual costs dropping significantly compared to their current figures, resulting in estimated savings ranging from approximately \$51,098 to \$59,874 annually, and a consistent savings percentage of 66%.

These savings are not arbitrary; they stem from a meticulous consideration of input settings and factors such as:

- **WATER HEATERS MODEL INPUT:** Transitioning from baseline electric storage water heaters to upgraded tankless natural gas ones.
- **SWH FUEL TYPE:** Shifting from electricity to natural gas as the primary fuel source for water heating.
- **SWH THERMAL EFFICIENCY:** Improving thermal efficiency from 90% to 98% with the tankless natural gas option.
- **ON-SITE CHP MODEL INPUT:** The absence of on-site generators and opting for a demand-limit operation scheme further contribute to cost savings.

Moreover, actual facility energy usage data, including annual electric and gas consumption, coupled with electricity and natural gas energy rates, play a pivotal role in determining the projected annual costs and estimated savings.

In essence, the simulation data vividly illustrates how a strategic transition to tankless natural gas water heaters, coupled with efficient energy management practices, can pave the way for significant cost reductions in water heating expenses, ensuring a more sustainable and economically prudent future for Florida's diverse communities.

Scenario 1 Simulation Input Settings



Simulation Input Settings A

Input Settings		
Name	Units	Value
Total Conditioned Floor Area	Sq. Ft	200256
Conversion Factor kBtu to kWh	kWh/kBtu	0.293071
Conversion Factor kBtu to Therm	Therm/kBtu	0.0100024
Electricity Rate	\$/kWh	0.118
Natural Gas Rate	\$/Therm	1.276

Scenario 1 Simulation Input Settings



Simulation Input Settings B

Building and Site Location	Units	BASELINE	UPGRADE
Building Location	-	Jacksonville	Jacksonville
Building Story	-	FOUR STORY	FOUR STORY
Building Total Floor Area	sf	200256	200256

Water Heaters Model Input	Units	BASELINE	UPGRADE
SWH Type	-	Storage	Tankless
SWH Fuel Type	-	Electricity	NaturalGas
SWH Thermal Efficiency	%	0.90	0.98
Has On-Site Laundry Water Heater	-	Yes	Yes
LWH Type	-	Storage	Tankless
LWH Fuel Type	-	Electricity	NaturalGas
LWH Thermal Efficiency	%	0.90	0.98

On-Site CHP Model Input	Units	BASELINE	UPGRADE
Has On-Site Generator	-	No	No
Generator Rated Power	kW	80	80
Generator Operation Scheme	-	Baseload	DemandLimit

Actual Facility Energy Uses (Utility)	Units	Value
Facility Annual Electric Use	kWh/yr	1944385
Facility Annual Gas Use	Therms/yr	28862

Electricity and Natural Gas Energy Rates	Units	Value
Electricity Rate	\$/kWh	0.118
Natural Gas Rate	\$/Therms	1.276

Site-to-source Energy Conversion Factors	Units	Value
Electricity	-	3.167
Natural Gas	-	1.084

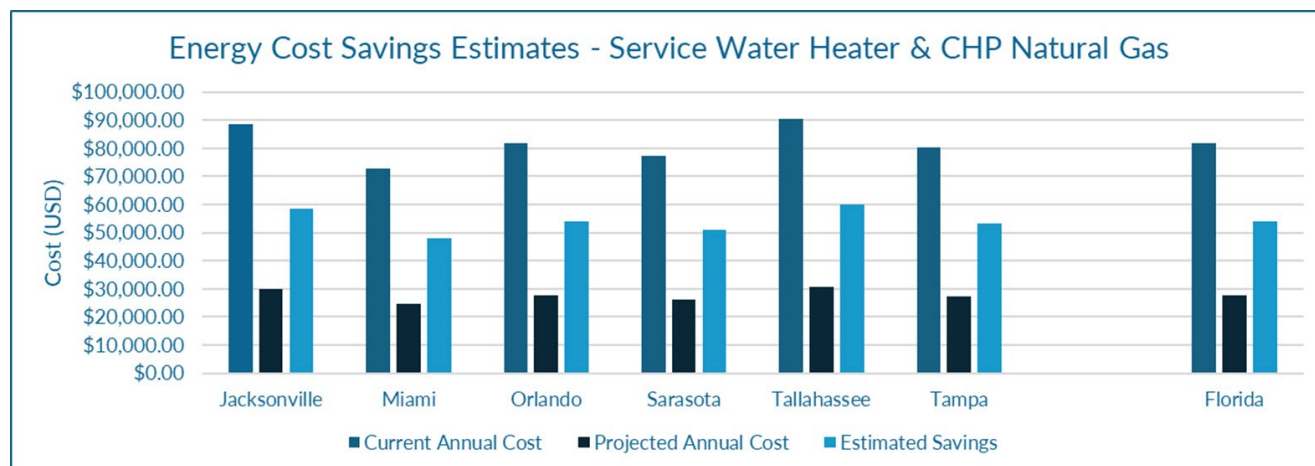
Scenario 1 Total Savings



Cost and Savings Estimates by City and State Average

City	Current Annual Cost	Projected Annual Cost	Estimated Savings	Savings Percent
Jacksonville	\$88,596.00	\$29,953.00	\$58,643.00	66%
Miami	\$72,682.00	\$24,573.00	\$48,109.00	66%
Orlando	\$81,776.00	\$27,648.00	\$54,128.00	66%
Sarasota	\$77,197.00	\$26,099.00	\$51,098.00	66%
Tallahassee	\$90,456.00	\$30,582.00	\$59,874.00	66%
Tampa	\$80,325.00	\$27,157.00	\$53,168.00	66%
Florida	\$81,838.67	\$27,668.67	\$54,170.00	66%

Graph of Cost and Savings Estimates by City and State Average



Electric Tank 98% Efficiency vs. Natural Gas Tankless 98% Efficiency

The analysis of simulation data reveals substantial potential savings achievable through the transition from electric storage water heaters to tankless natural gas models across various cities in Florida.

Here's a detailed breakdown:

- **Jacksonville:** Presently incurring an annual water heating cost of \$73,044, transitioning to tankless natural gas models is projected to reduce the annual cost to \$29,953. This transition forecasts savings of \$43,091 annually.
- **Miami:** Similarly, with a current annual expenditure of \$59,924 on water heating, adopting tankless natural gas models is estimated to lower the annual cost to \$24,573. This transition anticipates savings of \$35,351 annually.
- **Orlando, Sarasota, Tallahassee, and Tampa:** These cities exhibit consistent patterns, showcasing reductions in projected annual costs compared to their current figures. Estimated savings range from approximately \$37,548 to \$43,996 annually.

These projected savings stem from meticulous considerations of input settings and factors such as:

- **TRANSITIONING WATER HEATER MODELS:** Shifting from baseline electric storage water heaters to upgraded tankless natural gas alternatives.
- **SWH FUEL TYPE:** Transitioning from electricity to natural gas as the primary fuel source for water heating.
- **SWH THERMAL EFFICIENCY:** Enhancing thermal efficiency with tankless natural gas options.
- **ON-SITE CHP MODEL INPUT:** Considering demand-limit operation schemes over on-site generators, contributing further to cost savings.

Moreover, the analysis incorporates actual facility energy usage data, including annual electric and gas consumption, alongside electricity and natural gas energy rates, ensuring a comprehensive determination of projected annual costs and estimated savings.

In essence, the simulation data underscores the strategic significance of transitioning to tankless natural gas water heaters, combined with efficient energy management practices, to realize substantial cost reductions in water heating expenses, thereby fostering a more sustainable and economically prudent future for Florida's diverse communities.

Simulation Input Settings A

Input Settings		
Field	Units	Value
Total Conditioned Floor Area	Sq. Ft	200256
Conversion Factor kBtu to kWh	kWh/kBtu	0.293071
Conversion Factor kBtu to Therm	Therm/kBtu	0.0100024
Electricity Rate	\$/kWh	0.106
Natural Gas Rate	\$/Therm	1.276

Scenario 2 Simulation Input Settings



Simulation Input Settings B

Building and Site Location	Units	BASELINE	UPGRADE
Building Location	-	Jacksonville	Jacksonville
Building Story	-	FOUR STORY	FOUR STORY
Building Total Floor Area	sf	200256	200256

Water Heaters Model Input	Units	BASELINE	UPGRADE
SWH Type	-	Storage	Tankless
SWH Fuel Type	-	Electricity	NaturalGas
SWH Thermal Efficiency	%	0.98	0.98
blank			
Has On-Site Laundry Water Heater	-	Yes	Yes
LWH Type		Storage	Tankless
LWH Fuel Type		Electricity	NaturalGas
LWH Thermal Efficiency	%	0.98	0.98

On-Site CHP Model Input	Units	BASELINE	UPGRADE
Has On-Site Generator	-	No	No
Generator Rated Power	kW	80	80
Generator Operation Scheme	-	Baseload	DemandLimit

Actual Facility Energy Uses (Utility)	Units	Value
Facility Annual Electric Use	kWh/yr	1944385
Facility Annual Gas Use	Therms/yr	28862

Electricity and Natural Gas Energy Rates	Units	Value
Electricity Rate	\$/kWh	0.106
Natural Gas Rate	\$/Therms	1.276

Site-to-source Energy Conversion Factors	Units	Value
Electricity	-	3.167
Natural Gas	-	1.084

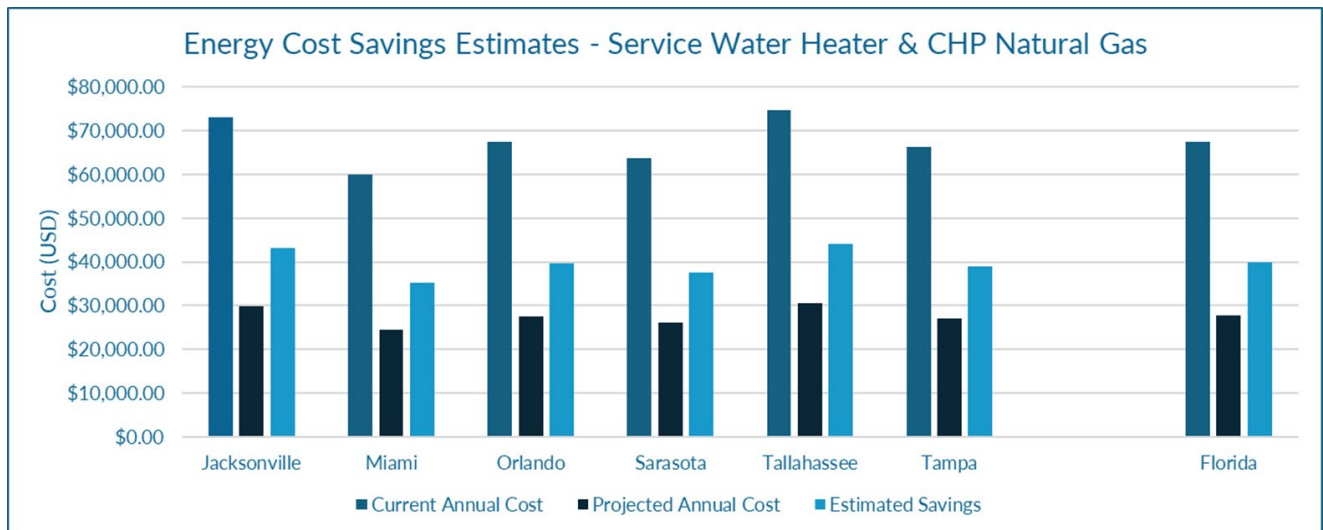
Scenario 2 Total Savings



Cost and Savings Estimates by City and State Average

City	Current Annual Cost	Projected Annual Cost	Estimated Savings	Savings Percent
Jacksonville	\$73,044.00	\$29,953.00	\$43,091.00	59%
Miami	\$59,924.00	\$24,573.00	\$35,351.00	59%
Orlando	\$67,422.00	\$27,648.00	\$39,774.00	59%
Sarasota	\$63,647.00	\$26,099.00	\$37,548.00	59%
Tallahassee	\$74,578.00	\$30,582.00	\$43,996.00	59%
Tampa	\$66,225.00	\$27,157.00	\$39,068.00	59%
Florida	\$67,473.33	\$27,668.67	\$39,804.67	59%

Graph of Cost and Savings Estimates by City and State Average



Electric Tank 98% Efficiency vs. Natural Gas Tank 92% Efficiency

The analysis of simulation data presents compelling evidence of substantial savings attainable through transitioning from electric storage water heaters to tankless natural gas alternatives across various cities in Florida.

Here's a breakdown:

- **Jacksonville:** Currently incurring an annual water heating cost of \$73,044, the transition to tankless natural gas models is projected to reduce the annual cost to \$31,906. This transition is estimated to yield annual savings of \$41,138, marking an impressive 56% reduction in expenses.
- **Miami:** Similarly, with a current annual expenditure of \$59,924 on water heating, adopting tankless natural gas models is anticipated to lower the annual cost to \$26,175. This shift is expected to result in annual savings amounting to \$33,749, representing a substantial 56% decrease in costs.
- **Orlando, Sarasota, Tallahassee, and Tampa:** These cities exhibit consistent patterns, showcasing reductions in projected annual costs compared to their current figures. Estimated savings range from approximately \$35,846 to \$42,002 annually, with a consistent savings percentage of 56%.

These projected savings are not arbitrary; they stem from a meticulous consideration of various input settings and factors, including:

- **TRANSITIONING WATER HEATER MODELS:** Moving from baseline electric storage water heaters to upgraded tankless natural gas alternatives.
- **SWH FUEL TYPE:** Shifting from electricity to natural gas as the primary fuel source for water heating.
- **SWH THERMAL EFFICIENCY:** Improving thermal efficiency from 90% to 98% with tankless natural gas options.
- **ON-SITE CHP MODEL INPUT:** Opting for a demand-limit operation scheme over on-site generators, further contributing to cost savings.

Moreover, the analysis integrates actual facility energy usage data, encompassing annual electric and gas consumption, coupled with electricity and natural gas energy rates, ensuring a comprehensive determination of projected annual costs and estimated savings.

In essence, the simulation data underscores the strategic significance of transitioning to tankless natural gas water heaters, complemented by efficient energy management practices, in realizing substantial cost reductions in water heating expenses, thereby fostering a more sustainable and economically prudent future for Florida's diverse communities.

Scenario 3 Simulation Input Settings



Simulation Input Settings A

Input Settings		
Field	Units	Value
Total Conditioned Floor Area	Sq. Ft	200256
Conversion Factor kBtu to kWh	kWh/kBtu	0.293071
Conversion Factor kBtu to Therm	Therm/kBtu	0.0100024
Electricity Rate	\$/kWh	0.106
Natural Gas Rate	\$/Therm	1.276

Scenario 3 Simulation Input Settings



Simulation Input Settings B

Building and Site Location	Units	BASELINE	UPGRADE
Building Location	-	Jacksonville	Jacksonville
Building Story	-	FOUR STORY	FOUR STORY
Building Total Floor Area	sf	200256	200256

Water Heaters Model Input	Units	BASELINE	UPGRADE
SWH Type	-	Storage	Storage
SWH Fuel Type	-	Electricity	NaturalGas
SWH Thermal Efficiency	%	0.98	0.92
blank			
Has On-Site Laundry Water Heater	-	Yes	Yes
LWH Type		Storage	Storage
LWH Fuel Type		Electricity	NaturalGas
LWH Thermal Efficiency	%	0.98	0.92

On-Site CHP Model Input	Units	BASELINE	UPGRADE
Has On-Site Generator	-	No	No
Generator Rated Power	kW	80	80
Generator Operation Scheme	-	Baseload	DemandLimit

Actual Facility Energy Uses (Utility)	Units	Value
Facility Annual Electric Use	kWh/yr	1944385
Facility Annual Gas Use	Therms/yr	28862

Electricity and Natural Gas Energy Rates	Units	Value
Electricity Rate	\$/kWh	0.106
Natural Gas Rate	\$/Therms	1.276

Site-to-source Energy Conversion Factors	Units	Value
Electricity	-	3.167
Natural Gas	-	1.084

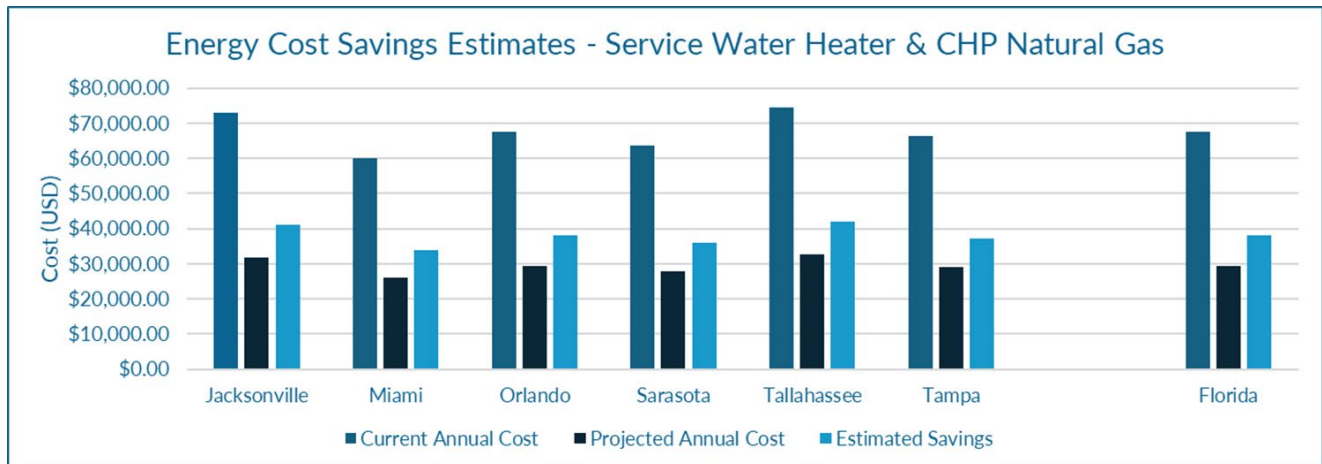
Scenario 3 Total Savings



Cost and Savings Estimates by City and State Average

City	Current Annual Cost	Projected Annual Cost	Estimated Savings	Savings Percent
Jacksonville	\$73,044.00	\$31,906.00	\$41,138.00	56%
Miami	\$59,924.00	\$26,175.00	\$33,749.00	56%
Orlando	\$67,422.00	\$29,450.00	\$37,972.00	56%
Sarasota	\$63,647.00	\$27,801.00	\$35,846.00	56%
Tallahassee	\$74,578.00	\$32,576.00	\$42,002.00	56%
Tampa	\$66,225.00	\$28,927.00	\$37,298.00	56%
Florida	\$67,473.33	\$29,472.50	\$38,000.83	56%

Graph of Cost and Savings Estimates by City and State Average



NatGas Tank 92% Efficiency vs. Natural Gas Tankless 96% Efficiency

The analysis of simulation data unveils compelling insights into the potential savings attainable through the transition from electric storage water heaters to tankless natural gas alternatives across various cities in Florida. Delving into specifics:

Specifics:

- **Jacksonville:** Presently incurring an annual water heating cost of \$31,906, the switch to tankless natural gas is anticipated to drive the projected annual cost down to \$30,577. This transition forecasts savings of \$1,329 annually, translating to a noteworthy 4% reduction in expenses.
- **Miami:** Similarly, with a current annual expenditure of \$26,175 on water heating, adopting tankless natural gas models is estimated to lower the annual cost to \$25,084. This anticipates savings amounting to \$1,091 annually, representing a 4% decrease in costs.
- **Orlando, Sarasota, Tallahassee, and Tampa:** These cities echo consistent patterns, showcasing reductions in projected annual costs compared to their current figures. Estimated savings range from approximately \$1,158 to \$1,357 annually, with a consistent savings percentage of 4%.

The delineated savings are not arbitrary but are meticulously calculated considering input settings and critical factors such as:

- **TRANSITIONING WATER HEATER MODELS:** Shifting from baseline electric storage water heaters to upgraded tankless natural gas alternatives.
- **SWH FUEL TYPE:** Transitioning from electricity to natural gas as the primary fuel source for water heating.
- **SWH THERMAL EFFICIENCY:** Enhancing thermal efficiency from 90% to 98% with tankless natural gas options.
- **ON-SITE CHP MODEL INPUT:** Opting for a demand-limit operation scheme over on-site generators, further contributing to cost savings.

Moreover, the analysis integrates actual facility energy usage data, encompassing annual electric and gas consumption, coupled with electricity and natural gas energy rates. This holistic approach ensures a comprehensive determination of projected annual costs and estimated savings.

In essence, the simulation data underscores the strategic significance of transitioning to tankless natural gas water heaters, complemented by efficient energy management practices, in realizing substantial cost reductions in water heating expenses. This transition promises a more sustainable and economically prudent future for Florida's diverse communities.

Scenario 4 Simulation Input Settings



NATURAL GAS *limitless opportunity*

Simulation Input Settings A

Input Settings		
Field	Units	Value
Total Conditioned Floor Area	Sq. Ft	200256
Conversion Factor kBtu to kWh	kWh/kBtu	0.293071
Conversion Factor kBtu to Therm	Therm/kBtu	0.0100024
Electricity Rate	\$/kWh	0.106
Natural Gas Rate	\$/Therm	1.276

Scenario 4 Simulation Input Settings



Simulation Input Settings B

Building and Site Location	Units	BASELINE	UPGRADE
Building Location	-	Jacksonville	Jacksonville
Building Story	-	FOUR STORY	FOUR STORY
Building Total Floor Area	sf	200256	200256

Water Heaters Model Input	Units	BASELINE	UPGRADE
SWH Type	-	Storage	Tankless
SWH Fuel Type	-	NaturalGas	NaturalGas
SWH Thermal Efficiency	%	0.92	0.96
blank			
Has On-Site Laundry Water Heater	-	Yes	Yes
LWH Type		Storage	Tankless
LWH Fuel Type		NaturalGas	NaturalGas
LWH Thermal Efficiency	%	0.92	0.96

On-Site CHP Model Input	Units	BASELINE	UPGRADE
Has On-Site Generator	-	No	No
Generator Rated Power	kW	80	80
Generator Operation Scheme	-	Baseload	DemandLimit

Actual Facility Energy Uses (Utility)	Units	Value
Facility Annual Electric Use	kWh/yr	1944385
Facility Annual Gas Use	Therms/yr	28862

Electricity and Natural Gas Energy Rates	Units	Value
Electricity Rate	\$/kWh	0.106
Natural Gas Rate	\$/Therms	1.276

Site-to-source Energy Conversion Factors	Units	Value
Electricity	-	3.167
Natural Gas	-	1.084

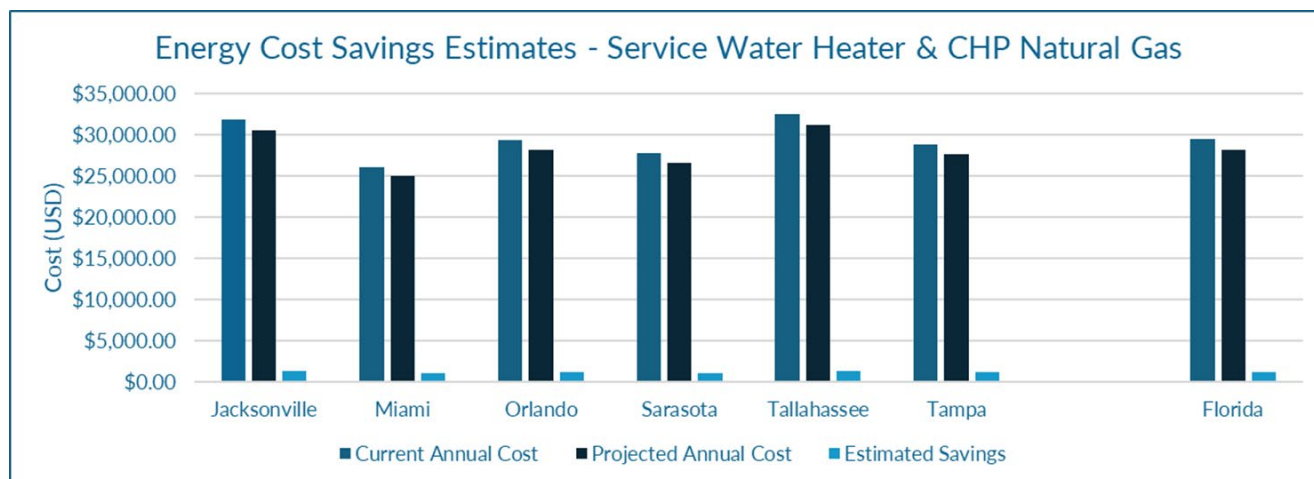
Scenario 4 Total Savings



Cost and Savings Estimates by City and State Average

City	Current Annual Cost	Projected Annual Cost	Estimated Savings	Savings Percent
Jacksonville	\$31,906.00	\$30,577.00	\$1,329.00	4%
Miami	\$26,175.00	\$25,084.00	\$1,091.00	4%
Orlando	\$29,450.00	\$28,223.00	\$1,227.00	4%
Sarasota	\$27,801.00	\$26,643.00	\$1,158.00	4%
Tallahassee	\$32,576.00	\$31,219.00	\$1,357.00	4%
Tampa	\$28,927.00	\$27,722.00	\$1,205.00	4%
Florida	\$29,472.50	\$28,244.67	\$1,227.83	4%

Graph of Cost and Savings Estimates by City and State Average



Miami

Site Annual Water Heating Energy Use	Units	Baseline woGen	Upgrade woGen	Savings
Electricity Use for Water Heating	kWh	614,383	-	614,383
Natural Gas Use for Water Heating	Therms	-	19,258	(19,258)
Site Annual Facility Water Heating Energy Cost				
Water Heating Electric Energy Cost	\$	72,682	-	72,682
Water Heating Natural Gas Cost	\$	-	24,573	(24,573)
Water Heating Total Energy Cost	\$	72,682	24,573	48,109
Water Heating Technology Recommendation				
Water Heating Annual Energy Cost Savings	\$			48,109
Likely A Good Investment				

CHP Annual Co-Generation Energy Use / Production	Units	Baseline woGen	Upgrade woGen
CHP Electricity Produced	kWh	-	-
CHP Heat Recoverd	Therms	-	-
CHP Total Energy Produced	-		
CHP Natural Gas Consumption	Therms	-	-
Site Annual CHP Energy Cost			
CHP Electric Produced Energy Cost	\$	-	-
CHP Heat Recoverd Energy Cost	\$	-	-
CHP Electric and Heat Produced Energy Cost	\$	-	-
CHP Natural Gas Consumption Cost	\$	-	-
CHP Net Energy Cost Savings	\$	-	-
CHP Technology Recommendation			
CHP Annual Energy Cost Increase	\$		-
Not A Good Investment At This Time			

Site Annual Energy Used and Prooduced	Units	Baseline woGen	Upgrade woGen	Savings
Facility Electricity Use	kWh	2,492,395	1,878,011	614,383
Facility Electricity On-Site Produced	kWh	-	-	
Facility Net Electricity Purchased	kWh	2,492,395	1,878,011	614,383
Facility Natural Gas Consumption	Therms	90,685	88,973	1,711
Site Annual Energy Cost				
Facility Net Electricity Purchased Cost	\$	294,850	222,169	72,682
Facility Natural Gas Cost	\$	115,713	113,530	2,183
Facility Total Energy Cost	\$	410,564	335,699	74,865
Facility Technology Recommendation				
Annual Energy Cost Savings, \$/yr	\$			74,865
Likely A Good Investment				

Orlando

Site Annual Water Heating Energy Use	Units	Baseline woGen	Upgrade woGen	Savings
Electricity Use for Water Heating	kWh	691,263	-	691,263
Natural Gas Use for Water Heating	Therms	-	21,667	(21,667)
Site Annual Facility Water Heating Energy Cost				
Water Heating Electric Energy Cost	\$	81,776	-	81,776
Water Heating Natural Gas Cost	\$	-	27,648	(27,648)
Water Heating Total Energy Cost	\$	81,776	27,648	54,129
Water Heating Technology Recommendation				
Water Heating Annual Energy Cost Savings	\$			54,129
Likely A Good Investment				

CHP Annual Co-Generation Energy Use / Production	Units	Baseline woGen	Upgrade woGen
CHP Electricity Produced	kWh	-	-
CHP Heat Recoverd	Therms	-	-
CHP Total Energy Produced	-		
CHP Natural Gas Consumption	Therms	-	-
Site Annual CHP Energy Cost			
CHP Electric Produced Energy Cost	\$	-	-
CHP Heat Recoverd Energy Cost	\$	-	-
CHP Electric and Heat Produced Energy Cost	\$	-	-
CHP Natural Gas Consumption Cost	\$	-	-
CHP Net Energy Cost Savings	\$	-	-
CHP Technology Recommendation			
CHP Annual Energy Cost Increase	\$		-
Not A Good Investment At This Time			

Site Annual Energy Used and Prooduced	Units	Baseline woGen	Upgrade woGen	Savings
Facility Electricity Use	kWh	2,469,573	1,778,310	691,263
Facility Electricity On-Site Produced	kWh	-	-	
Facility Net Electricity Purchased	kWh	2,469,573	1,778,310	691,263
Facility Natural Gas Consumption	Therms	89,906	87,980	1,925
Site Annual Energy Cost				
Facility Net Electricity Purchased Cost	\$	292,150	210,374	81,776
Facility Natural Gas Cost	\$	114,720	112,263	2,457
Facility Total Energy Cost	\$	406,870	322,637	84,233
Facility Technology Recommendation				
Annual Energy Cost Savings, \$/yr	\$			84,233
Likely A Good Investment				

Sarasota

Site Annual Water Heating Energy Use	Units	Baseline woGen	Upgrade woGen	Savings
Electricity Use for Water Heating	kWh	652,555	-	652,555
Natural Gas Use for Water Heating	Therms	-	20,454	(20,454)
Site Annual Facility Water Heating Energy Cost				
Water Heating Electric Energy Cost	\$	77,197	-	77,197
Water Heating Natural Gas Cost	\$	-	26,099	(26,099)
Water Heating Total Energy Cost	\$	77,197	26,099	51,098
Water Heating Technology Recommendation				
Water Heating Annual Energy Cost Savings	\$			51,098
Likely A Good Investment				

CHP Annual Co-Generation Energy Use / Production	Units	Baseline woGen	Upgrade woGen
CHP Electricity Produced	kWh	-	-
CHP Heat Recoverd	Therms	-	-
CHP Total Energy Produced	-		
CHP Natural Gas Consumption	Therms	-	-
Site Annual CHP Energy Cost			
CHP Electric Produced Energy Cost	\$	-	-
CHP Heat Recoverd Energy Cost	\$	-	-
CHP Electric and Heat Produced Energy Cost	\$	-	-
CHP Natural Gas Consumption Cost	\$	-	-
CHP Net Energy Cost Savings	\$	-	-
CHP Technology Recommendation			
CHP Annual Energy Cost Increase	\$		-
Not A Good Investment At This Time			

Site Annual Energy Used and Prooduced	Units	Baseline woGen	Upgrade woGen	Savings
Facility Electricity Use	kWh	2,460,089	1,807,533	652,555
Facility Electricity On-Site Produced	kWh	-	-	
Facility Net Electricity Purchased	kWh	2,460,089	1,807,533	652,555
Facility Natural Gas Consumption	Therms	89,582	87,765	1,817
Site Annual Energy Cost				
Facility Net Electricity Purchased Cost	\$	291,028	213,831	77,197
Facility Natural Gas Cost	\$	114,307	111,988	2,319
Facility Total Energy Cost	\$	405,335	325,819	79,516
Facility Technology Recommendation				
Annual Energy Cost Savings, \$/yr	\$			79,516
Likely A Good Investment				

Tampa

Site Annual Water Heating Energy Use	Units	Baseline woGen	Upgrade woGen	Savings
Electricity Use for Water Heating	kWh	678,993	-	678,993
Natural Gas Use for Water Heating	Therms	-	21,283	(21,283)
Site Annual Facility Water Heating Energy Cost				
Water Heating Electric Energy Cost	\$	80,325	-	80,325
Water Heating Natural Gas Cost	\$	-	27,157	(27,157)
Water Heating Total Energy Cost	\$	80,325	27,157	53,168
Water Heating Technology Recommendation				
Water Heating Annual Energy Cost Savings	\$			53,168
Likely A Good Investment				

CHP Annual Co-Generation Energy Use / Production	Units	Baseline woGen	Upgrade woGen
CHP Electricity Produced	kWh	-	-
CHP Heat Recoverd	Therms	-	-
CHP Total Energy Produced	-		
CHP Natural Gas Consumption	Therms	-	-
Site Annual CHP Energy Cost			
CHP Electric Produced Energy Cost	\$	-	-
CHP Heat Recoverd Energy Cost	\$	-	-
CHP Electric and Heat Produced Energy Cost	\$	-	-
CHP Natural Gas Consumption Cost	\$	-	-
CHP Net Energy Cost Savings	\$	-	-
CHP Technology Recommendation			
CHP Annual Energy Cost Increase	\$		-
Not A Good Investment At This Time			

Site Annual Energy Used and Prooduced	Units	Baseline woGen	Upgrade woGen	Savings
Facility Electricity Use	kWh	2,493,556	1,814,563	678,993
Facility Electricity On-Site Produced	kWh	-	-	
Facility Net Electricity Purchased	kWh	2,493,556	1,814,563	678,993
Facility Natural Gas Consumption	Therms	90,724	88,833	1,891
Site Annual Energy Cost				
Facility Net Electricity Purchased Cost	\$	294,988	214,663	80,325
Facility Natural Gas Cost	\$	115,764	113,351	2,413
Facility Total Energy Cost	\$	410,752	328,014	82,738
Facility Technology Recommendation				
Annual Energy Cost Savings, \$/yr	\$			82,738
Likely A Good Investment				

Tallahassee

Site Annual Water Heating Energy Use	Units	Baseline woGen	Upgrade woGen	Savings
Electricity Use for Water Heating	kWh	764,636	-	764,636
Natural Gas Use for Water Heating	Therms	-	23,967	(23,967)
Site Annual Facility Water Heating Energy Cost				
Water Heating Electric Energy Cost	\$	90,456	-	90,456
Water Heating Natural Gas Cost	\$	-	30,582	(30,582)
Water Heating Total Energy Cost	\$	90,456	30,582	59,874
Water Heating Technology Recommendation				
Water Heating Annual Energy Cost Savings	\$			59,874
Likely A Good Investment				

CHP Annual Co-Generation Energy Use / Production	Units	Baseline woGen	Upgrade woGen	
CHP Electricity Produced	kWh	-	-	
CHP Heat Recoverd	Therms	-	-	
CHP Total Energy Produced	-			
CHP Natural Gas Consumption	Therms	-	-	
Site Annual CHP Energy Cost				
CHP Electric Produced Energy Cost	\$	-	-	
CHP Heat Recoverd Energy Cost	\$	-	-	
CHP Electric and Heat Produced Energy Cost	\$	-	-	
CHP Natural Gas Consumption Cost	\$	-	-	
CHP Net Energy Cost Savings	\$	-	-	
CHP Technology Recommendation				
CHP Annual Energy Cost Increase	\$		-	
Not A Good Investment At This Time				

Site Annual Energy Used and Prooduced	Units	Baseline woGen	Upgrade woGen	Savings
Facility Electricity Use	kWh	2,464,022	1,699,386	764,636
Facility Electricity On-Site Produced	kWh	-	-	
Facility Net Electricity Purchased	kWh	2,464,022	1,699,386	764,636
Facility Natural Gas Consumption	Therms	89,716	87,587	2,130
Site Annual Energy Cost				
Facility Net Electricity Purchased Cost	\$	291,494	201,037	90,456
Facility Natural Gas Cost	\$	114,478	111,760	2,717
Facility Total Energy Cost	\$	405,972	312,798	93,174
Facility Technology Recommendation				
Annual Energy Cost Savings, \$/yr	\$			93,174
Likely A Good Investment				



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