

ENERGY STAR NEW HOMES

2022 Net Present Cost Benefit Summary Analysis For All Participants

	Participant Test (\$Total)	Utility Test (\$Total)	Rate Impact Test (\$Total)	Modified Total Resource Test (\$Total)
Benefits				
Avoided Revenue Requirements				
Generation Capacity	N/A	\$2,447,194	\$2,447,194	\$2,447,194
Trans. & Dist. Capacity	N/A	\$306,480	\$306,480	\$306,480
Marginal Energy	N/A	\$2,649,276	\$2,649,276	\$2,649,276
Avoided Emissions (CO2)	N/A	N/A	N/A	\$1,821,717
Subtotal				\$7,224,667
Non-Energy Benefits Adder (20.0%)				\$1,080,590
Subtotal	N/A	\$5,402,950	\$5,402,950	\$8,305,257
Participant Benefits				
Bill Reduction - Electric	\$19,514,611	N/A	N/A	N/A
Participant Rebates and Incentives	\$2,413,158	N/A	N/A	\$2,413,158
Incremental Capital Savings	\$20	N/A	N/A	\$15
Incremental O&M Savings	\$22,361	N/A	N/A	\$16,324
Subtotal	\$21,950,150	N/A	N/A	\$2,429,496
Total Benefits	\$21,950,150	\$5,402,950	\$5,402,950	\$10,734,753
Costs				
Utility Project Costs				
Program Planning & Design	N/A	\$0	\$0	\$0
Administration & Program Delivery	N/A	\$341,644	\$341,644	\$341,644
Advertising/Promotion/Customer Ed	N/A	\$60,000	\$60,000	\$60,000
Participant Rebates and Incentives	N/A	\$2,413,158	\$2,413,158	\$2,413,158
Equipment & Installation	N/A	\$0	\$0	\$0
Measurement and Verification	N/A	\$150,960	\$150,960	\$150,960
Subtotal	N/A	\$2,965,762	\$2,965,762	\$2,965,762
Utility Revenue Reduction				
Revenue Reduction - Electric	N/A	N/A	\$14,307,459	N/A
Subtotal	N/A	N/A	\$14,307,459	N/A
Participant Costs				
Incremental Capital Costs	\$9,469,417	N/A	N/A	\$6,931,510
Incremental O&M Costs	\$4,939	N/A	N/A	\$3,605
Subtotal	\$9,474,355	N/A	N/A	\$6,935,115
Total Costs	\$9,474,355	\$2,965,762	\$17,273,221	\$9,900,877
Net Benefit (Cost)	\$12,475,795	\$2,437,188	(\$11,870,271)	\$833,876
Benefit/Cost Ratio	2.32	1.82	0.31	1.08

Note: Dollar values represent present value of impacts accumulated over the lifetime of the measures.

2022

ELECTRIC

GOAL

Input Summary and Totals

Program "Inputs" per Customer kW and per Participant		
Lifetime (Weighted on Generator kWh)	A	19.8 years
T & D Loss Factor (Energy)	B	6.38%
T & D Loss Factor (Demand)	C	9.13%
Net-to-Gross (Energy)	D	51.94%
Net-to-Gross (Demand)	E	64.12%
Installation Rate (Energy)	F	100.00%
Installation Rate (Demand)	G	100.00%
Net coincident kW Saved at Generator	H	0.07 kW
Gross Annual kWh Saved at Customer	I	560.95 kWh
Net Annual kWh Saved at Generator	J	311.24 kWh
Program Summary All Participants		
Total Budget	K	\$2,965,762
Net coincident kW Saved at Generator	L	1,933 kW
Gross Annual kWh Saved at Customer	M	15,939,660 kWh
Net Annual kWh Saved at Generator	N	8,844,080 kWh
Total MTRC Net Benefits with Adder	O	\$833,876
Total MTRC Net Benefits without Adder	P	(\$246,714)
Utility Program Cost per kWh Lifetime	K/(A x N)	\$0.0169
Utility Program Cost per kW at Gen	K/ L	\$1,535
Avoided Lifetime CO2 Emissions, Total Program (tons CO2)		46,812

ENERGY STAR NEW HOMES

2022 Net Present Cost Benefit Summary Analysis For All Participants

	Participant Test (\$Total)	Utility Test (\$Total)	Rate Impact Test (\$Total)	Modified Total Resource Test (\$Total)
Benefits				
Avoided Revenue Requirements				
Commodity Cost Reduction	N/A	\$5,423,377	\$5,423,377	\$5,423,377
Variable O&M Savings	N/A	\$81,471	\$81,471	\$81,471
Demand Savings	N/A	\$570,655	\$570,655	\$570,655
Subtotal				\$6,075,503
Non-Energy Benefits Adder (20.0%)				\$1,215,101
Subtotal	N/A	\$6,075,503	\$6,075,503	\$7,290,603
Participant Benefits				
Bill Reduction - Gas	\$9,666,859	N/A	N/A	N/A
Participant Rebates and Incentives	\$1,992,430	N/A	N/A	\$1,992,430
Incremental Capital Savings	\$0	N/A	N/A	\$0
Incremental O&M Savings	\$78,682	N/A	N/A	\$57,438
Subtotal	\$11,737,971	N/A	N/A	\$2,049,868
Total Benefits	\$11,737,971	\$6,075,503	\$6,075,503	\$9,340,471
Costs				
Utility Project Costs				
Program Planning & Design	N/A	\$0	\$0	\$0
Administration & Program Delivery	N/A	\$613,837	\$613,837	\$613,837
Advertising/Promotion/Customer Ed	N/A	\$240,000	\$240,000	\$240,000
Participant Rebates and Incentives	N/A	\$1,992,430	\$1,992,430	\$1,992,430
Equipment & Installation	N/A	\$0	\$0	\$0
Measurement and Verification	N/A	\$429,615	\$429,615	\$429,615
Subtotal	N/A	\$3,275,882	\$3,275,882	\$3,275,882
Utility Revenue Reduction				
Revenue Reduction - Gas	N/A	N/A	\$9,666,859	N/A
Subtotal	N/A	N/A	\$9,666,859	N/A
Participant Costs				
Incremental Capital Costs	\$11,661,567	N/A	N/A	\$6,427,471
Incremental O&M Costs	\$0	N/A	N/A	\$0
Subtotal	\$11,661,567	N/A	N/A	\$6,427,471
Total Costs	\$11,661,567	\$3,275,882	\$12,942,741	\$9,703,353
Net Benefit (Cost)	\$76,404	\$2,799,621	(\$6,867,238)	(\$362,882)
Benefit/Cost Ratio	1.01	1.85	0.47	0.96

Note: Dollar values represent present value of impacts accumulated over the lifetime of the measures.

2022 GAS

GOAL

Input Summary and Totals		
Program "Inputs" per Dth		
Lifetime (Weighted on Dth)	A	19.8 years
Net-to-Gross (Weighted on Dth)	B	63.75%
Install Rate (Weighted on Dth)	C	100.00%
Program Summary per Participant		
Gross Annual Dth Saved	D	7.1
Net Annual Dth Saved	E	4.5
Program Summary All Participants		
Total Budget	F	\$3,275,882
Gross Annual Dth Saved	G	218,019 Dth
Net Annual Dth Saved	H	138,984 Dth
Total MTRC Net Benefits with Adder	I	(\$362,882)
Total MTRC Net Benefits without Adder	J	(\$1,577,982)
Utility Program Cost per Dth Lifetime	F / (A x H)	\$1.1894