

ENERGY STAR NEW HOMES				
2021 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	\$3,005,989	\$3,005,989	\$3,005,989
Trans. & Dist. Capacity	N/A	\$376,461	\$376,461	\$376,461
Marginal Energy	N/A	\$2,836,127	\$2,836,127	\$2,836,127
Avoided Emissions (CO2)	N/A	N/A	N/A	\$2,071,896
Subtotal				\$8,290,473
Non-Energy Benefits Adder (20.0%)				
Subtotal	N/A	\$6,218,577	\$6,218,577	\$9,534,189
Participant Benefits				
Bill Reduction - Electric	\$18,665,707	N/A	N/A	N/A
Participant Rebates and Incentives	\$2,246,057	N/A	N/A	\$2,246,057
Incremental Capital Savings	\$20	N/A	N/A	\$18
Incremental O&M Savings	\$22,498	N/A	N/A	\$20,698
Subtotal	\$20,934,282	N/A	N/A	\$2,266,774
Total Benefits	\$20,934,282	\$6,218,577	\$6,218,577	\$11,800,963
Costs				
Utility Project Costs				
Program Planning & Design	N/A	\$0	\$0	\$0
Administration & Program Delivery	N/A	\$341,769	\$341,769	\$341,769
Advertising/Promotion/Customer Ed	N/A	\$60,000	\$60,000	\$60,000
Participant Rebates and Incentives	N/A	\$2,246,057	\$2,246,057	\$2,246,057
Equipment & Installation	N/A	\$0	\$0	\$0
Measurement and Verification	N/A	\$155,250	\$155,250	\$155,250
Subtotal	N/A	\$2,803,076	\$2,803,076	\$2,803,076
Utility Revenue Reduction				
Revenue Reduction - Electric	N/A	N/A	\$15,455,944	N/A
Subtotal	N/A	N/A	\$15,455,944	N/A
Participant Costs				
Incremental Capital Costs	\$8,973,784	N/A	N/A	\$8,271,864
Incremental O&M Costs	\$4,939	N/A	N/A	\$4,544
Subtotal	\$8,978,722	N/A	N/A	\$8,276,408
Total Costs	\$8,978,722	\$2,803,076	\$18,259,020	\$11,079,484
Net Benefit (Cost)	\$11,955,560	\$3,415,501	(\$12,040,442)	\$721,479
Benefit/Cost Ratio	2.33	2.22	0.34	1.07

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

2021	ELECTRIC	GOAL
Input Summary and Totals		
Program "Inputs" per Customer kW and per Participant		
Lifetime (Weighted on Generator kWh)	A	19.7 years
T & D Loss Factor (Energy)	B	6.38%
T & D Loss Factor (Demand)	C	9.13%
Net-to-Gross (Energy)	D	88.19%
Net-to-Gross (Demand)	E	80.13%
Installation Rate (Energy)	F	100.00%
Installation Rate (Demand)	G	100.00%
Net coincident kW Saved at Generator	H	0.09 kW
Gross Annual kWh Saved at Customer	I	380.31 kWh
Net Annual kWh Saved at Generator	J	358.27 kWh
Program Summary All Participants		
Total Budget	K	\$2,803,076
Net coincident kW Saved at Generator	L	2,422 kW
Gross Annual kWh Saved at Customer	M	10,444,826 kWh
Net Annual kWh Saved at Generator	N	9,839,519 kWh
Total MTRC Net Benefits with Adder	O	\$721,479
Total MTRC Net Benefits without Adder	P	(\$522,237)
Utility Program Cost per kWh Lifetime		
	K/(A x N)	\$0.0145
Utility Program Cost per kW at Gen		
	K/ L	\$1,158
Avoided Lifetime CO2 Emissions, Total Program (tons CO2)		
		55,277

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	\$2,859,943	\$2,859,943	\$2,859,943
Trans. & Dist. Capacity	N/A	\$358,172	\$358,172	\$358,172
Marginal Energy	N/A	\$3,079,041	\$3,079,041	\$3,079,041
Avoided Emissions (CO2)	N/A	N/A	N/A	\$2,117,841
Subtotal				\$8,414,997
Non-Energy Benefits Adder (20.0%)				
Subtotal	N/A	\$6,297,155	\$6,297,155	\$9,674,428
Participant Benefits				
Bill Reduction - Electric	\$22,660,298	N/A	N/A	N/A
Participant Rebates and Incentives	\$2,210,824	N/A	N/A	\$2,210,824
Incremental Capital Savings	\$20	N/A	N/A	\$18
Incremental O&M Savings	\$22,361	N/A	N/A	\$20,572
Subtotal	\$24,893,503	N/A	N/A	\$2,231,415
Total Benefits	\$24,893,503	\$6,297,155	\$6,297,155	\$11,905,843
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	\$2,210,824	\$2,210,824	\$2,210,824
Equipment & Installation	N/A	\$0	\$0	\$0
Measurement and Verification	N/A	\$150,960	\$150,960	\$150,960
Subtotal	N/A	\$2,763,428	\$2,763,428	\$2,763,428
Utility Revenue Reduction				
Revenue Reduction - Electric	N/A	N/A	\$16,631,246	N/A
Subtotal	N/A	N/A	\$16,631,246	N/A
Participant Costs				
Incremental Capital Costs	\$8,419,066	N/A	N/A	\$7,767,332
Incremental O&M Costs	\$4,939	N/A	N/A	\$4,544
Subtotal	\$8,424,004	N/A	N/A	\$7,771,876
Total Costs	\$8,424,004	\$2,763,428	\$19,394,674	\$10,535,304
Net Benefit (Cost)	\$16,469,499	\$3,533,727	(\$13,097,519)	\$1,370,539
Benefit/Cost Ratio	2.96	2.28	0.32	1.13

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	63.02%
Net-to-Gross (Demand)	E	79.57%
Installation Rate (Energy)	F	100.00%
Installation Rate (Demand)	G	100.00%
Net coincident kW Saved at Generator	H	0.08 kW
Gross Annual kWh Saved at Customer	I	564.75 kWh
Net Annual kWh Saved at Generator	J	380.17 kWh
Program Summary All Participants		
Total Budget	K	\$2,763,428
Net coincident kW Saved at Generator	L	2,261 kW
Gross Annual kWh Saved at Customer	M	15,284,690 kWh
Net Annual kWh Saved at Generator	N	10,289,169 kWh
Total MTRC Net Benefits with Adder	O	\$1,370,539
Total MTRC Net Benefits without Adder	P	\$111,108
Utility Program Cost per kWh Lifetime	K/(A x N)	\$0.0136
Utility Program Cost per kW at Gen	K/ L	\$1,222
Avoided Lifetime CO2 Emissions, Total Program (tons CO2)		54,412

ENERGY STAR NEW HOMES

2021 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	\$5,070,451	\$5,070,451	\$5,070,451
Variable O&M Savings	N/A	\$79,411	\$79,411	\$79,411
Demand Savings	N/A	\$556,224	\$556,224	\$556,224
Subtotal				\$5,706,085
Non-Energy Benefits Adder (20.0%)				\$1,141,217
Subtotal	N/A	\$5,706,085	\$5,706,085	\$6,847,302
Participant Benefits				
Bill Reduction - Gas	\$9,037,788	N/A	N/A	N/A
Participant Rebates and Incentives	\$1,909,445	N/A	N/A	\$1,909,445
Incremental Capital Savings	\$0	N/A	N/A	\$0
Incremental O&M Savings	\$78,441	N/A	N/A	\$72,165
Subtotal	\$11,025,674	N/A	N/A	\$1,981,611
Total Benefits	\$11,025,674	\$5,706,085	\$5,706,085	\$8,828,912
Costs				
Utility Project Costs				
Program Planning & Design	N/A	\$0	\$0	\$0
Administration & Program Delivery	N/A	\$617,199	\$617,199	\$617,199
Advertising/Promotion/Customer Ed	N/A	\$240,000	\$240,000	\$240,000
Participant Rebates and Incentives	N/A	\$1,909,445	\$1,909,445	\$1,909,445
Equipment & Installation	N/A	\$0	\$0	\$0
Measurement and Verification	N/A	\$449,100	\$449,100	\$449,100
Subtotal	N/A	\$3,215,744	\$3,215,744	\$3,215,744
Utility Revenue Reduction				
Revenue Reduction - Gas	N/A	N/A	\$9,037,788	N/A
Subtotal	N/A	N/A	\$9,037,788	N/A
Participant Costs				
Incremental Capital Costs	\$7,917,111	N/A	N/A	\$6,057,047
Incremental O&M Costs	\$0	N/A	N/A	\$0
Subtotal	\$7,917,111	N/A	N/A	\$6,057,047
Total Costs	\$7,917,111	\$3,215,744	\$12,253,532	\$9,272,791
Net Benefit (Cost)	\$3,108,562	\$2,490,341	(\$6,547,447)	(\$443,879)
Benefit/Cost Ratio	1.39	1.77	0.47	0.95

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

2021 GAS

GOAL

Input Summary and Totals		
Program "Inputs" per Dth		
Lifetime (Weighted on Dth)	A	19.7 years
Net-to-Gross (Weighted on Dth)	B	91.25%
Install Rate (Weighted on Dth)	C	100.00%
Program Summary per Participant		
Gross Annual Dth Saved	D	5.2
Net Annual Dth Saved	E	4.8
Program Summary All Participants		
Total Budget	F	\$3,215,744
Gross Annual Dth Saved	G	148,762 Dth
Net Annual Dth Saved	H	135,749 Dth
Total MTRC Net Benefits with Adder	I	(\$443,879)
Total MTRC Net Benefits without Adder	J	(\$1,585,096)
Utility Program Cost per Dth Lifetime	F / (A x H)	\$1,2004

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	\$6,451,063	\$6,451,063	\$6,451,063
Variable O&M Savings	N/A	\$96,923	\$96,923	\$96,923
Demand Savings	N/A	\$678,885	\$678,885	\$678,885
Subtotal				\$7,226,870
Non-Energy Benefits Adder (20.0%)				\$1,445,374
Subtotal	N/A	\$7,226,870	\$7,226,870	\$8,672,245
Participant Benefits				
Bill Reduction - Gas	\$11,498,651	N/A	N/A	N/A
Participant Rebates and Incentives	\$1,813,267	N/A	N/A	\$1,813,267
Incremental Capital Savings	\$0	N/A	N/A	\$0
Incremental O&M Savings	\$78,682	N/A	N/A	\$72,388
Subtotal	\$13,390,600	N/A	N/A	\$1,885,655
Total Benefits	\$13,390,600	\$7,226,870	\$7,226,870	\$10,557,899
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	\$1,813,267	\$1,813,267	\$1,813,267
Equipment & Installation	N/A	\$0	\$0	\$0
Measurement and Verification	N/A	\$429,615	\$429,615	\$429,615
Subtotal	N/A	\$3,096,719	\$3,096,719	\$3,096,719
Utility Revenue Reduction				
Revenue Reduction - Gas	N/A	N/A	\$11,498,651	N/A
Subtotal	N/A	N/A	\$11,498,651	N/A
Participant Costs				
Incremental Capital Costs	\$10,392,883	N/A	N/A	\$7,314,549
Incremental O&M Costs	\$0	N/A	N/A	\$0
Subtotal	\$10,392,883	N/A	N/A	\$7,314,549
Total Costs	\$10,392,883	\$3,096,719	\$14,595,370	\$10,411,268
Net Benefit (Cost)	\$2,997,718	\$4,130,151	(\$7,368,500)	\$146,631
Benefit/Cost Ratio	1.29	2.33	0.50	1.01

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	79.25%
Install Rate (Weighted on Dth)	C	100.00%
Program Summary per Participant		
Gross Annual Dth Saved	D	7.1
Net Annual Dth Saved	E	5.6
Program Summary All Participants		
Total Budget	F	\$3,096,719
Gross Annual Dth Saved	G	208,732 Dth
Net Annual Dth Saved	H	165,415 Dth
Total MTRC Net Benefits with Adder	I	\$146,631
Total MTRC Net Benefits without Adder	J	(\$1,298,743)
Utility Program Cost per Dth Lifetime	F / (A x H)	\$0.9451