ENERGY STAR NEW HOMES  2019 Net Present Cost Benefit Summary Analysis For All Participants						
2017 IVEL I TESCHE COST BEHEIR SUMMARY AMARY	Analysis For All Participants  Rate Modified					
	Participant	Utility Test (\$Total)	Impact Test (\$Total)	TRC Test (\$Total)		
	Test					
	(\$Total)					
Benefits	(, , , , ,	(, , , , ,	(, , , , ,	(,,		
Avoided Revenue Requirements						
Generation Capacity	N/A	\$1,062,419	\$1,062,419	\$1,062,419		
Trans. & Dist. Capacity	N/A	\$133,051	\$133,051	\$133,051		
Marginal Energy	N/A	\$1,336,099	\$1,336,099	\$1,336,099		
Avoided Emissions (CO2)	N/A	N/A	N/A	\$0		
Subtotal				\$2,531,569		
Non-Energy Benefits Adder (20%)				\$506,314		
Subtotal	N/A	\$2,531,569	\$2,531,569	\$3,037,882		
Other Benefits						
Bill Reduction - Electric	\$6,165,293	N/A	N/A	N/A		
Participant Rebates and Incentives	\$652,641	N/A	N/A	\$652,641		
Incremental Capital Savings	\$0	N/A	N/A	\$0		
Incremental O&M Savings	\$12,681	N/A	N/A	\$11,667		
Subtotal	\$6,830,615	N/A	N/A	\$664,307		
Total Benefits	\$6,830,615	\$2,531,569	\$2,531,569	\$3,702,190		
Utility Project Costs						
Program Planning & Design	N/A	\$0	\$0	\$0		
Administration & Program Delivery	N/A	\$497,478	\$497,478	\$497,478		
Advertising/Promotion/Customer Ed	N/A	\$30,861	\$30,861	\$30,861		
Participant Rebates and Incentives	N/A	\$652,641	\$652,641	\$652,641		
Equipment & Installation	N/A	\$0	\$0	\$0		
Measurement and Verification	N/A	\$223,236	\$223,236	\$223,236		
Subtotal	N/A	\$1,404,216	\$1,404,216	\$1,404,216		
Utility Revenue Reduction						
Revenue Reduction - Electric	N/A	N/A	\$5,672,070	N/A		
Subtotal	N/A	N/A	\$5,672,070	N/A N/A		
Participant Costs						
Incremental Capital Costs	\$2,866,198	N/A	N/A	\$2,636,903		
Incremental O&M Costs	\$0	N/A	N/A	\$0		
Subtotal	\$2,866,198	N/A	N/A	\$2,636,903		
Total Costs	\$2,866,198	\$1,404,216	\$7,076,285	\$4,041,118		
Net Benefit (Cost)	\$3,964,416	\$1,127,353	(\$4,544,717)	(\$338,929)		
Benefit/Cost Ratio	2.38	1.80	0.36	0.92		

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

2019	ELECTRIC	GOAL
nput Summary and Totals		
rogram Inputs per Customer kW		
Lifetime (Weighted on Generator kWh	A A	19 years
Annual Hours	В	876
Gross Customer kW	C	1 kV
Generator Peak Coincidence Factor	D	81.01%
Gross Load Factor at Customer	E	32.82%
Net-to-Gross (Energy)	F	92.0%
Net-to-Gross (Demand)	G	92.0%
Transmission Loss Factor (Energy)	H	6.380%
Transmission Loss Factor (Demand)	I	9.129%
Installation Rate (Energy)	J	100.0%
Installation Rate (Demand)	K	100.0%
MTRC Net Benefit (Cost)	L	-\$279
MTRC Non-Energy Benefit Adder	M	\$41
Gross Annual kWh Saved at Customer	(BxExC)	2,875 kWl
Net Annual kWh Saved at Customer	(Fx(BxExCxJ))	2,645 kWl
Net Annual kWh Saved at Generator	(Fx(BxExCxJ))/(1-H)	2,825 kW
rogram Summary All Participants Total Budget	N	\$1,404,216
Net coincident kW Saved at Genera	(G x O x K) x D / (1 - I)	997 kV
	(Fx(BxExOxJ)	3,214,900 kW
Net Annual kWh Saved at Customer		
Net Annual kWh Saved at Customer Net Annual kWh Saved at Generato		
- 100		3,433,972 kW (\$338,929

\$1,408

Utility Program Cost per kW at Gen

2020 Net Present Cost Benefit Summary Analysis For All Participants						
Ť			Rate	Modified		
	Participant	Utility	Impact Test (\$Total)	TRC Test (\$Total)		
	Test	Test (\$Total)				
	(\$Total)					
Benefits						
Avoided Revenue Requirements						
Generation Capacity	N/A	\$1,032,541	\$1,032,541	\$1,032,541		
Trans. & Dist. Capacity	N/A	\$132,607	\$132,607	\$132,607		
Marginal Energy	N/A	\$1,358,823	\$1,358,823	\$1,358,823		
Avoided Emissions (CO2)	N/A	N/A	N/A	\$0		
Subtotal				\$2,523,971		
Non-Energy Benefits Adder (20%)				\$504,794		
Subtotal	N/A	\$2,523,971	\$2,523,971	\$3,028,765		
Other Benefits						
Bill Reduction - Electric	\$6,096,086	N/A	N/A	N/A		
Participant Rebates and Incentives	\$630,353	N/A	N/A	\$630,353		
Incremental Capital Savings	\$0	N/A	N/A	\$(		
Incremental O&M Savings	\$13,315	N/A	N/A	\$12,250		
Subtotal	\$6,739,754	N/A	N/A	\$642,603		
Total Benefits	\$6,739,754	\$2,523,971	\$2,523,971	\$3,671,368		
Utility Project Costs						
Program Planning & Design	N/A	\$0	\$0	\$(		
Administration & Program Delivery	N/A	\$197,478	\$197,478	\$197,478		
Advertising/Promotion/Customer Ed	N/A	\$300,861	\$300,861	\$300,861		
Participant Rebates and Incentives	N/A	\$630,353	\$630,353	\$630,353		
Equipment & Installation	N/A	\$0	\$0	\$(		
Measurement and Verification	N/A	\$196,632	\$196,632	\$196,632		
Subtotal	N/A	\$1,325,324	\$1,325,324	\$1,325,324		
Utility Revenue Reduction						
Revenue Reduction - Electric	N/A	N/A	\$5,608,399	N/.		
Subtotal	N/A	N/A	\$5,608,399	N/A		
Participant Costs						
Incremental Capital Costs	\$2,830,444	N/A	N/A	\$2,604,008		
Incremental O&M Costs	\$0	N/A	N/A	\$(		
Subtotal	\$2,830,444	N/A	N/A	\$2,604,008		
Total Costs	\$2,830,444	\$1,325,324	\$6,933,723	\$3,929,332		
Net Benefit (Cost)	\$3,909,311	\$1,198,647	(\$4,409,752)	(\$257,964		
Benefit/Cost Ratio	2.38	1.90	0.36	0.93		

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

2020 ELEC	TRIC	GOAI
nput Summary and Totals		
rogram Inputs per Customer kW		
Lifetime (Weighted on Generator kWh)	A	19 years
Annual Hours	В	8760
Gross Customer kW	С	1 kW
Generator Peak Coincidence Factor	D	74.69%
Gross Load Factor at Customer	E	29.51%
Net-to-Gross (Energy)	F	92.0%
Net-to-Gross (Demand)	G	92.0%
Transmission Loss Factor (Energy)	Н	6.380%
Transmission Loss Factor (Demand)	I	9.129%
Installation Rate (Energy)	J	100.0%
Installation Rate (Demand)	K	100.0%
MTRC Net Benefit (Cost)	L	-\$195
MTRC Non-Energy Benefit Adder	M	\$382
Gross Annual kWh Saved at Customer	(BxExC)	2,585 kWł
Net Annual kWh Saved at Customer	(Fx(BxExCxJ))	2,378 kWł
Net Annual kWh Saved at Generator	(Fx(BxExCxJ))/(1-H)	2,540 kWł
rogram Summary All Participant		
Total Budget	N	\$1,325,324
Net coincident kW Saved at Generator	(G x O x K) x D / (1-I)	1,000 kW
Net Annual kWh Saved at Customer	(Fx(BxExOxJ)	3,146,244 kWł
Net Annual kWh Saved at Generator	(Fx(B xE xO xJ))/(1-H)	3,360,638 kWl
TRC Net Benefits with Adder	(OxL)	(\$257,964)
TRC Net Benefits without Adder	(Ox(L-M))	(\$762,758
Utility Program Cost per kWh Lifetime		\$0.0207
Utility Program Cost per kW at Gen		\$1,325