

Preliminary Draft NOPR Life-Cycle Cost Spreadsheet

Supporting & Related Material | Posted: 09/22/2014 | ID: EERE-2014-BT-STD-0031-0002

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EERE-2014-BT-STD-0031-0002 spreadsheet Sheet "Summary Switching" - Before

	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
% Switching														
Replacement														
	Gas Furnace Configuration						Fraction of Non-Condensing NWGF Switching			Fraction of All NWGF Switching				
Census Div	1	5	7	13	16	20	All	All Gas to Not All Gas	GWH to EWH	Gas Furn to Elec Heat	All Gas to Not All Gas	GWH to EWH	Gas Furn to Elec Heat	
1	0%	0%	0%	0%	0%	0%	0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
2	2%	13%	2%	20%	100%	0%	4%	2.7%	2.0%	4.2%	2.7%	2.0%	1.4%	
3	0%	5%	8%	27%	73%	0%	8%	6.9%	2.0%	8.5%	6.9%	2.0%	2.5%	
4	0%	33%	21%	30%	50%	50%	22%	20.4%	5.6%	22.1%	20.4%	5.6%	6.5%	
5	0%	0%	18%	22%	42%	45%	21%	20.8%	0.3%	21.5%	20.8%	0.3%	11.5%	
6	0%	0%	24%	38%	67%	100%	29%	24.7%	2.5%	29.4%	24.7%	2.5%	16.3%	
7	0%	0%	13%	26%	74%	60%	15%	13.4%	2.0%	15.3%	13.4%	2.0%	14.6%	
8	4%	0%	8%	0%	75%	0%	7%	8.2%	2.0%	7.4%	8.2%	2.0%	4.4%	
9	21%	50%	41%	13%	100%	0%	36%	37.0%	5.4%	35.8%	37.0%	5.4%	27.5%	
10	9%	16%	27%	26%	58%	100%	19%	20.0%	5.2%	18.6%	20.0%	5.2%	14.7%	
National	5%	12%	16%	26%	58%	56%	17%	15.6%	2.8%	16.656%	15.6%	2.8%	9.0%	
New														
	Gas Furnace Configuration						All	All Gas to Not All Gas	GWH to EWH	Gas Furn to Elec Furn				
Census Div	1	5	7	13	16	20	All	All Gas to Not All Gas	GWH to EWH	Gas Furn to Elec Furn				
1	0%	0%	0%	0%	0%	0%	0%	0.00%	0.00%	0.00%				
2	0%	0%	8%	33%	67%	0%	14%	9.72%	8.33%	13.79%				
3	0%	0%	6%	29%	100%	0%	17%	13.56%	5.93%	16.78%				
4	0%	0%	24%	8%	33%	0%	21%	25.00%	22.92%	21.31%				
5	0%	33%	9%	12%	52%	43%	14%	13.44%	1.61%	14.41%				
6	0%	0%	16%	8%	33%	25%	17%	17.91%	5.97%	16.67%				
7	0%	0%	5%	0%	50%	0%	6%	5.80%	2.23%	5.51%				
8	0%	27%	9%	0%	100%	0%	14%	12.05%	4.82%	13.83%				
9	30%	0%	63%	42%	100%	0%	59%	62.22%	22.22%	58.82%				
10	17%	10%	37%	67%	100%	0%	31%	33.85%	11.98%	31.22%				
National	14%	18%	17%	23%	71%	33%	20%	19.98%	7.68%	19.94%				
Total Repl. And New														
	TSL 1	TSL 2	TSL 3	TSL 4	TSL 5									
Basecase Eff	#REF!	#REF!	#REF!	#REF!	#REF!									
HP	#REF!	#REF!	#REF!	#REF!	#REF!									
EF	#REF!	#REF!	#REF!	#REF!	#REF!									
HP + EWH	#REF!	#REF!	#REF!	#REF!	#REF!									
EF + EWH	#REF!	#REF!	#REF!	#REF!	#REF!									
EWH	#REF!	#REF!	#REF!	#REF!	#REF!									
Switch from GWH to EWH	#REF!	#REF!	#REF!	#REF!	#REF!									
Res.Repl														
AH/HP no WH Chg	#REF!	#REF!	#REF!	#REF!	#REF!									
EF no WH Chg	#REF!	#REF!	#REF!	#REF!	#REF!									
HP + EWH	#REF!	#REF!	#REF!	#REF!	#REF!									
EF + EWH	#REF!	#REF!	#REF!	#REF!	#REF!									
EWH only	#REF!	#REF!	#REF!	#REF!	#REF!									
Res.New														
AH/HP no WH Chg	#REF!	#REF!	#REF!	#REF!	#REF!									
EF no WH Chg	#REF!	#REF!	#REF!	#REF!	#REF!									
HP + EWH	#REF!	#REF!	#REF!	#REF!	#REF!									
EF + EWH	#REF!	#REF!	#REF!	#REF!	#REF!									
EWH only	#REF!	#REF!	#REF!	#REF!	#REF!									

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	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
% Switching														
Replacement														
Gas Furnace Configuration														
Census Div	1	5	7	13	16	20	All	All Gas to Not All Gas	GWH to EWH	Gas Furn to Elec Heat	All Gas to Not All Gas	GWH to EWH	Gas Furn to Elec Heat	
1	0%	0%	0%	0%	0%	0%	0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
2	2%	13%	2%	20%	100%	0%	4%	2.7%	2.0%	4.2%	2.7%	2.0%	1.4%	
3	0%	5%	8%	27%	73%	0%	8%	6.9%	2.0%	8.5%	6.9%	2.0%	2.5%	
4	0%	33%	21%	30%	50%	50%	22%	20.4%	5.6%	22.1%	20.4%	5.6%	6.5%	
5	0%	0%	18%	22%	42%	45%	21%	20.8%	0.3%	21.5%	20.8%	0.3%	11.5%	
6	0%	0%	24%	38%	67%	100%	29%	24.7%	2.5%	29.4%	24.7%	2.5%	16.3%	
7	0%	0%	13%	26%	74%	60%	15%	13.4%	2.0%	15.3%	13.4%	2.0%	14.6%	
8	4%	0%	8%	0%	75%	0%	7%	8.2%	2.0%	7.4%	8.2%	2.0%	4.4%	
9	21%	50%	41%	13%	100%	0%	36%	37.0%	5.4%	35.8%	37.0%	5.4%	27.5%	
10	9%	16%	27%	26%	58%	100%	19%	20.0%	5.2%	18.6%	20.0%	5.2%	14.7%	
National	5%	12%	16%	26%	58%	56%	17%	15.6%		16.658%	15.6%	2.8%	9.0%	
New														
Gas Furnace Configuration														
Census Div	1	5	7	13	16	20	All	All Gas to Not All Gas	GWH to EWH	Gas Furn to Elec Furn				
1	0%	0%	0%	0%	0%	0%	0%	0.00%	0.00%	0.00%				
2	0%	0%	8%	33%	67%	0%	14%	9.72%	8.33%	13.79%				
3	0%	0%	6%	29%	100%	0%	17%	13.56%	5.93%	16.78%				
4	0%	0%	24%	8%	33%	0%	21%	25.00%	22.92%	21.31%				
5	0%	33%	9%	12%	52%	43%	14%	13.44%	1.61%	14.41%				
6	0%	0%	16%	8%	33%	25%	17%	17.91%	5.97%	16.67%				
7	0%	0%	5%	0%	50%	0%	6%	5.80%	2.23%	5.51%				
8	0%	27%	9%	0%	100%	0%	14%	12.05%	4.82%	13.83%				
9	30%	0%	63%	42%	100%	0%	59%	62.22%	22.22%	58.82%				
10	17%	10%	37%	67%	100%	0%	31%	33.85%	11.98%	31.22%				
National	14%	18%	17%	23%	71%	33%	20%	19.98%	7.68%	19.94%				
Total Repl. And New														
	TSL 1	TSL 2	TSL 3	TSL 4	TSL 5									
Basecase Eff.	97.9%	97.4%	90.8%	88.8%	84.9%									
HP	1.6%	2.0%	6.6%	8.5%	11.8%									
EF	0.6%	0.6%	2.5%	2.7%	3.3%									
HP + EWH	0.5%	0.5%	1.0%	1.2%	1.6%									
EF + EWH	0.2%	0.2%	0.6%	0.5%	0.7%									
EWH	0.0%	0.0%	0.2%	0.2%	0.1%									
Switch from GWH to EWH	0.6%	0.7%	1.8%	1.9%	2.4%									
Res,Repl														
AH/HP no WH Cl	0.0%	1.0%	1.0%	1.2%	1.4%									
EF no WH Chg	0.0%	0.4%	0.3%	0.4%	0.4%									
HP + EWH	0.0%	0.2%	0.2%	0.2%	0.3%									
EF + EWH	0.0%	0.1%	0.1%	0.1%	0.1%									
EWH only	0.0%	0.0%	0.0%	0.0%	0.0%									
Res,New														
AH/HP no WH Cl	0.0%	0.6%	0.6%	0.7%	0.9%									
EF no WH Chg	0.0%	0.2%	0.2%	0.3%	0.4%									
HP + EWH	0.0%	0.3%	0.3%	0.3%	0.5%									
EF + EWH	0.0%	0.1%	0.1%	0.1%	0.1%									
EWH only	0.0%	0.0%	0.0%	0.0%	0.0%									