

ASSUMPTIONS

**Basic information of homes modeled**

	11472
Foundations: Slab, Basement and Crawl	3
Stories: One and Two	2
Floor Area: 2000 and 3000 Sq.Ft.	2
Orientation: N, S, E and W	4
Locations: All 239 TMY2 weather locations in US	239
Utility Rates: EIA 2007/8 by State	

**Baseline Home Assumptions**

Duct Leakage:	15 CFM of leakage to unconditioned space per 100 SF of conditioned floor area
Duct Insulation:	R-6
Infiltration:	8 ACH50
Lighting	10% High Efficacy
Window Area:	15% Window to Floor Area
Thermostat Settings:	72 Heating / 75 Cooling
Interior Shade Fraction:	0.85 Winter / 0.70 Summer
HVAC System Sizing:	15% Oversized
Gas Furnace:	78% AFUE
Air Conditioner:	13 SEER
Heat Pump:	7.7 HSPF
Water Heater:	0.594 EF / 40 Gallon / Gas
Bedrooms:	3
Roof Absorptivity:	0.75
Wall Absorptivity:	0.75
Envelope R-Value / U-Value:	per 2006 IECC
Fenestration SHGC:	per 2006 IECC
Wall Frame Fraction:	23%
Ceiling Frame Fraction:	11%
Floor Frame Fraction:	10%
House Aspect Ratio	2 : 1
Insulation Grade:	3
Below-Grade Basement Wall Height:	6
Shielding Factor:	0.185
Horizontal Factor:	0.40
Neutral Level Factor:	0.50
% Ducts in Unconditioned Space:	
	100% One-story / Slab-on-grade
	75% One-story / Basement
	100% One-story / Crawlspace
	75% Two-story / Slab-on-grade
	65% Two-story / Basement
	75% Two-story / Crawlspace

**Weightings used in this analysis**

	Climate Zone 1	Climate Zone 2	Climate Zone 3	Climate Zone 4	Climate Zone 4 Marine	Climate Zone 5	Climate Zone 6	Climate Zone 7	Climate Zone 8
Percent of National Housing Starts	3.26%	23.62%	24.01%	14.65%	8.94%	18.98%	6.19%	0.34%	0.02%
Percent of Climate Zone Foundation Type:									
<b>Slab</b>	65%	65%	60%	40%	40%	40%	40%	60%	60%
<b>Basement</b>	5%	5%	20%	40%	40%	40%	40%	30%	30%
<b>Crawlspace</b>	30%	35%	20%	20%	20%	20%	20%	10%	10%

% Homes in Performance Path	50%
% Homes in Prescriptive Path	50%

OVERVIEW

2006 to 2009 IECC Prescriptive Path Measure Savings

	Climate Zone 4								National Weighted Savings	
	Climate Zone 1	Climate Zone 2	Climate Zone 3	Climate Zone 4	Marine	Climate Zone 5	Climate Zone 6	Climate Zone 7		Climate Zone 8
<b>Total Average Percent Savings</b>	14.1%	13.2%	13.4%	11.6%	9.5%	10.0%	11.6%	13.1%	13.3%	<b>12.2%</b>
Yearly Average Purchased Energy Savings	\$437.41	\$222.73	\$241.63	\$238.13	\$162.92	\$221.03	\$276.30	\$336.93	\$419.21	<b>\$234.62</b>
<b>Electricity (% kWh)</b>	15.0%	17.9%	19.2%	14.7%	16.9%	15.3%	15.7%	16.3%	15.8%	<b>16.7%</b>
Electricity (kWh)	2,539	2,490	2,255	1,600	1,397	1,476	1,465	1,380	1,386	<b>1,947</b>
<b>Electricity (% kW)</b>	9.7%	12.4%	13.7%	4.1%	1.0%	2.3%	2.1%	1.4%	-0.9%	<b>7.4%</b>
Electricity (kW)	0.4	0.5	0.5	0.1	0.0	0.1	0.0	0.0	(0.0)	<b>0.3</b>
<b>Gas (% Therms)</b>	0.2%	3.6%	7.2%	9.9%	7.1%	7.7%	10.0%	11.5%	11.5%	<b>6.8%</b>
Gas (Therms)	0	17	56	110	71	105	173	258	362	<b>72</b>
<b>AC Size (% tons)</b>	13.5%	17.5%	19.0%	8.5%	5.2%	7.1%	6.7%	8.9%	7.0%	<b>12.2%</b>
AC Size (tons)	0.7	0.9	0.9	0.4	0.2	0.2	0.2	0.3	0.3	<b>0.6</b>

2006 to 2009 IECC Performance & ResCheck Path Measures\*

	Climate Zone 4								National Weighted Savings	
	Climate Zone 1	Climate Zone 2	Climate Zone 3	Climate Zone 4	Marine	Climate Zone 5	Climate Zone 6	Climate Zone 7		Climate Zone 8
<b>18% to 15% WFA</b>										
Total Average Percent Savings	3.9%	4.0%	3.0%	1.4%	1.5%	1.6%	1.5%	1.3%	2.0%	<b>2.5%</b>
Yearly Average Purchased Energy Savings	\$100.66	\$56.94	\$42.65	\$22.72	\$21.79	\$28.60	\$26.87	\$25.10	\$48.83	<b>\$39.43</b>
<b>78 to 90 AFUE (Gas Furnace Heating)</b>										
Total Average Percent Savings	0.1%	3.9%	6.7%	8.3%	9.0%	9.3%	10.0%	10.6%	11.1%	<b>7.0%</b>
Yearly Average Purchased Energy Savings	\$3.05	\$52.77	\$93.62	\$132.16	\$126.38	\$163.91	\$182.17	\$210.30	\$269.04	<b>\$108.86</b>
<b>13 to 16 SEER (Cooling)</b>										
Total Average Percent Savings	13.1%	7.7%	4.0%	2.4%	0.6%	1.3%	0.8%	0.3%	0.2%	<b>3.9%</b>
Yearly Average Purchased Energy Savings	\$327.71	\$105.52	\$56.81	\$38.75	\$7.76	\$23.02	\$15.18	\$5.34	\$5.09	<b>\$60.95</b>
<b>7.7 to 9.0 HSPF (Heatpump Heating)</b>										
Total Average Percent Savings	0.1%	2.3%	5.3%	7.1%	7.1%	9.0%	7.7%	9.8%	6.3%	<b>5.8%</b>
Yearly Average Purchased Energy Savings	\$1.74	\$26.53	\$60.05	\$96.53	\$66.34	\$175.73	\$179.71	\$355.89	\$467.50	<b>\$86.59</b>
<b>.594 to .82 EF (Water Heater)</b>										
Total Average Percent Savings	7.6%	7.7%	6.8%	6.0%	6.9%	5.1%	4.4%	3.5%	2.5%	<b>6.4%</b>
Yearly Average Purchased Energy Savings	\$190.37	\$104.67	\$95.98	\$95.59	\$96.69	\$89.55	\$80.97	\$69.37	\$60.79	<b>\$98.88</b>

\* the Performance and ResCheck Path measure savings are in addition to the Prescriptive Path measures savings.

Average of HVAC Trade-off measures 5.8%

**SUMMARY**

<b>Housing Energy Weighting</b>	5.1%	21.0%	21.6%	15.3%	7.7%	21.3%	7.5%	0.4%	0.0%	
<b>Percentage of Housing Starts</b>	3.26%	23.62%	24.01%	14.65%	8.94%	18.98%	6.19%	0.34%	0.02%	
	<b>Climate Zone 1</b>	<b>Climate Zone 2</b>	<b>Climate Zone 3</b>	<b>Climate Zone 4</b>	<b>Climate Zone 4 Marine</b>	<b>Climate Zone 5</b>	<b>Climate Zone 6</b>	<b>Climate Zone 7</b>	<b>Climate Zone 8</b>	<b>Total</b>
Heating	1.4%	5.7%	9.6%	12.2%	9.0%	9.2%	11.6%	12.6%	12.5%	8.8%
Cooling	14.4%	18.2%	21.5%	7.0%	1.9%	5.9%	5.0%	5.0%	1.7%	12.1%
Hot Water	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Lighting	26.8%	28.2%	26.6%	26.3%	26.3%	26.3%	26.3%	26.5%	26.5%	26.8%
<b>Total Average Percent Savings</b>	<b>14.1%</b>	<b>13.2%</b>	<b>13.4%</b>	<b>11.6%</b>	<b>9.5%</b>	<b>10.0%</b>	<b>11.6%</b>	<b>13.1%</b>	<b>13.3%</b>	<b>12.0%</b>
<b>Yearly Average Purchased Energy Savings</b>	<b>\$437.41</b>	<b>\$222.73</b>	<b>\$241.63</b>	<b>\$238.13</b>	<b>\$162.92</b>	<b>\$221.03</b>	<b>\$276.30</b>	<b>\$336.93</b>	<b>\$419.21</b>	<b>\$234.62</b>
<b>Total Weighted Percent Savings</b>	<b>12.2%</b>	<b>13.4%</b>	<b>14.5%</b>	<b>11.7%</b>	<b>9.3%</b>	<b>10.3%</b>	<b>11.7%</b>	<b>13.2%</b>	<b>13.1%</b>	<b>12.2%</b>
<b>Yearly Weighted Purchased Energy Savings</b>	<b>\$248.89</b>	<b>\$227.71</b>	<b>\$238.34</b>	<b>\$260.56</b>	<b>\$158.89</b>	<b>\$222.22</b>	<b>\$292.05</b>	<b>\$353.70</b>	<b>\$426.78</b>	<b>\$233.04</b>

Purchased Energy	Climate Zone								
	1	2	3	4	4 C	5	6	7	8
Heating \$	59.79	486.19	830.77	1,281.08	1,125.43	1,501.70	1,766.16	1,976.62	2,522.21
Cooling \$	2,073.97	741.10	421.09	250.92	53.50	156.07	102.74	37.25	35.34
Hot Water \$	461.17	287.79	269.52	287.42	306.07	285.28	263.29	233.20	205.84
Lighting \$	522.05	254.50	266.69	258.07	238.57	293.32	271.75	338.32	411.24
<b>Total \$</b>	<b>3,116.98</b>	<b>1,769.58</b>	<b>1,788.08</b>	<b>2,077.49</b>	<b>1,723.57</b>	<b>2,236.37</b>	<b>2,403.94</b>	<b>2,585.38</b>	<b>3,174.63</b>
Heating \$	58.98	459.82	749.79	1,127.34	1,025.76	1,366.23	1,565.72	1,730.40	2,211.60
Cooling \$	1,777.21	612.93	331.04	233.98	52.60	147.17	97.90	35.50	34.87
Hot Water \$	461.17	287.79	269.52	287.42	306.07	285.28	263.29	233.20	205.84
Lighting \$	382.21	186.31	196.10	190.62	176.21	216.65	200.72	249.36	303.11
<b>Total \$</b>	<b>2,679.57</b>	<b>1,546.85</b>	<b>1,546.45</b>	<b>1,839.36</b>	<b>1,560.64</b>	<b>2,015.34</b>	<b>2,127.63</b>	<b>2,248.46</b>	<b>2,755.42</b>

	Climate Zone								Total	
	Climate Zone 1	Climate Zone 2	Climate Zone 3	Climate Zone 4	Climate Zone 4 Marine	Climate Zone 5	Climate Zone 6	Climate Zone 7		Climate Zone 8
Electricity (kWh)	2,539	2,490	2,255	1,600	1,397	1,476	1,465	1,380	1,386	<b>1,947</b>
Electricity (kW)	0.4	0.5	0.5	0.1	0.0	0.1	0.0	0.0	(0.0)	<b>0.3</b>
Gas (Therms)	0	17	56	110	71	105	173	258	362	<b>72</b>
AC Size (tons)	0.7	0.9	0.9	0.4	0.2	0.2	0.2	0.3	0.3	<b>0.6</b>

	Climate Zone								Total	
	Climate Zone 1	Climate Zone 2	Climate Zone 3	Climate Zone 4	Climate Zone 4 Marine	Climate Zone 5	Climate Zone 6	Climate Zone 7		Climate Zone 8
Electricity (% kWh)	15.0%	17.9%	19.2%	14.7%	16.9%	15.3%	15.7%	16.3%	15.8%	<b>16.7%</b>
Electricity (% kW)	9.7%	12.4%	13.7%	4.1%	1.0%	2.3%	2.1%	1.4%	-0.9%	<b>7.4%</b>
Gas (% Therms)	0.2%	3.6%	7.2%	9.9%	7.1%	7.7%	10.0%	11.5%	11.5%	<b>6.8%</b>
AC Size (% tons)	13.5%	17.5%	19.0%	8.5%	5.2%	7.1%	6.7%	8.9%	7.0%	<b>12.2%</b>

Other Metrics	Climate Zone								
	1	2	3	4	4 C	5	6	7	8
Electricity (kWh)	16,922	14,560	11,674	10,776	8,133	9,505	9,205	8,323	8,622
Electricity (kW)	3.9	4.2	3.6	3.2	1.7	2.7	2.3	1.4	1.2
Heating Gas (Therms)	23	315	575	920	807	1,166	1,527	2,037	2,944
Water Gas (Therms)	159	181	188	206	220	221	228	238	240
AC Size (tons)	5.3	5.6	5.0	4.5	3.8	3.6	3.4	3.5	3.8
Electricity (kWh)	14,383	12,070	9,419	9,176	6,736	8,029	7,740	6,943	7,236
Electricity (kW)	3.5	3.7	3.1	3.0	1.7	2.7	2.2	1.4	1.2
Gas (Therms)	23	298	519	810	735	1,061	1,354	1,783	2,581
Water Gas (Therms)	159	181	188	206	220	221	227	234	240
AC Size (tons)	4.6	4.7	4.1	4.1	3.6	3.4	3.2	3.2	3.5

<b>SLAB</b>	<b>Housing Energy Weighting</b>	5.1%	21.0%	21.6%	15.3%	7.7%	21.3%	7.5%	0.4%	0.0%	
	<b>Percentage of Housing Starts</b>	3.26%	23.62%	24.01%	14.65%	8.94%	18.98%	6.19%	0.34%	0.02%	
		<b>Climate Zone 4</b>									
		<b>Climate Zone 1</b>	<b>Climate Zone 2</b>	<b>Climate Zone 3</b>	<b>Climate Zone 4</b>	<b>Marine</b>	<b>Climate Zone 5</b>	<b>Climate Zone 6</b>	<b>Climate Zone 7</b>	<b>Climate Zone 8</b>	<b>Total</b>
	Heating	1.4%	5.3%	8.6%	13.8%	10.6%	11.0%	13.0%	13.2%	13.1%	9.3%
	Cooling	14.9%	18.0%	22.2%	9.4%	3.7%	8.2%	7.5%	6.5%	2.8%	13.4%
	Hot Water	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Lighting	26.9%	26.9%	26.9%	26.9%	26.9%	26.9%	26.9%	26.9%	26.9%	26.9%
	<b>Total Average Percent Savings</b>	<b>14.4%</b>	<b>12.9%</b>	<b>12.9%</b>	<b>12.5%</b>	<b>10.2%</b>	<b>11.0%</b>	<b>12.6%</b>	<b>13.4%</b>	<b>13.7%</b>	<b>12.3%</b>
	<b>Yearly Average Purchased Energy Savings</b>	<b>\$441.51</b>	<b>\$209.40</b>	<b>\$215.96</b>	<b>\$235.50</b>	<b>\$164.23</b>	<b>\$224.50</b>	<b>\$269.08</b>	<b>\$317.18</b>	<b>\$395.48</b>	<b>\$225.31</b>
	<b>Total Weighted Percent Savings</b>	<b>12.5%</b>	<b>13.0%</b>	<b>14.0%</b>	<b>12.6%</b>	<b>10.1%</b>	<b>11.3%</b>	<b>12.7%</b>	<b>13.4%</b>	<b>13.5%</b>	<b>12.5%</b>
	<b>Yearly Weighted Purchased Energy Savings</b>	<b>\$250.77</b>	<b>\$214.29</b>	<b>\$212.96</b>	<b>\$256.36</b>	<b>\$162.39</b>	<b>\$225.37</b>	<b>\$285.36</b>	<b>\$330.97</b>	<b>\$404.30</b>	<b>\$223.64</b>

Purchased Energy	Climate Zone									
	1	2	3	4	4	5	6	7	8	
	C									
Heating	\$ 53.84	\$ 434.52	\$ 783.57	\$ 1,165.87	\$ 1,074.45	\$ 1,394.45	\$ 1,583.67	\$ 1,826.62	\$ 2,329.35	
Cooling	\$ 2,054.32	\$ 687.17	\$ 390.00	\$ 228.02	\$ 43.19	\$ 133.57	\$ 87.50	\$ 31.24	\$ 27.87	
Hot Water	\$ 461.17	\$ 274.09	\$ 269.52	\$ 287.42	\$ 306.07	\$ 285.28	\$ 263.29	\$ 233.20	\$ 205.84	
Lighting	\$ 502.72	\$ 233.82	\$ 231.14	\$ 197.36	\$ 182.45	\$ 224.32	\$ 207.83	\$ 274.90	\$ 334.16	
<b>Total</b>	<b>\$ 3,072.05</b>	<b>\$ 1,629.60</b>	<b>\$ 1,674.24</b>	<b>\$ 1,878.67</b>	<b>\$ 1,606.15</b>	<b>\$ 2,037.63</b>	<b>\$ 2,142.28</b>	<b>\$ 2,365.96</b>	<b>\$ 2,897.22</b>	
Heating	\$ 53.07	\$ 411.52	\$ 716.38	\$ 1,004.83	\$ 960.93	\$ 1,241.20	\$ 1,377.10	\$ 1,585.45	\$ 2,024.56	
Cooling	\$ 1,748.84	\$ 563.68	\$ 303.42	\$ 206.66	\$ 41.58	\$ 122.68	\$ 80.91	\$ 29.20	\$ 27.09	
Hot Water	\$ 461.17	\$ 274.09	\$ 269.52	\$ 287.42	\$ 306.07	\$ 285.28	\$ 263.29	\$ 233.20	\$ 205.84	
Lighting	\$ 367.45	\$ 170.90	\$ 168.95	\$ 144.26	\$ 133.36	\$ 163.96	\$ 151.90	\$ 200.93	\$ 244.24	
<b>Total</b>	<b>\$ 2,630.54</b>	<b>\$ 1,420.19</b>	<b>\$ 1,458.28</b>	<b>\$ 1,643.17</b>	<b>\$ 1,441.93</b>	<b>\$ 1,813.13</b>	<b>\$ 1,873.20</b>	<b>\$ 2,048.78</b>	<b>\$ 2,501.74</b>	

Slab                      Slab                      Slab                      Slab                      Slab                      Slab                      Slab                      Slab                      Slab

	Climate Zone 4								Total	
	Climate Zone 1	Climate Zone 2	Climate Zone 3	Climate Zone 4	Marine	Climate Zone 5	Climate Zone 6	Climate Zone 7		Climate Zone 8
Electricity (kWh)	2,531	2,337	2,033	1,331	1,093	1,180	1,164	1,139	1,139	<b>1,716</b>
Electricity (kW)	0.4	0.5	0.5	0.1	0.0	0.1	0.0	0.0	(0.0)	<b>0.0</b>
Gas (Therms)	0	15	46	116	81	119	179	255	356	<b>146</b>
AC Size (tons)	0.8	0.9	1.0	0.5	0.3	0.4	0.4	0.3	0.3	<b>0.6</b>

	Climate Zone 4								Total	
	Climate Zone 1	Climate Zone 2	Climate Zone 3	Climate Zone 4	Marine	Climate Zone 5	Climate Zone 6	Climate Zone 7		Climate Zone 8
Electricity (kWh)	15.2%	17.3%	18.6%	13.7%	15.0%	14.0%	14.2%	14.9%	14.5%	<b>15.8%</b>
Electricity (kW)	10.1%	12.1%	13.9%	5.6%	1.6%	3.3%	2.5%	1.7%	-0.7%	<b>7.9%</b>
Gas (Therms)	0.1%	3.3%	6.4%	11.1%	8.2%	9.1%	11.2%	12.0%	12.0%	<b>7.2%</b>
AC Size (tons)	14.2%	17.5%	20.0%	12.6%	8.4%	11.4%	11.1%	10.7%	8.2%	<b>14.6%</b>

Other Metrics	Climate Zone									
	1	2	3	4	4	5	6	7	8	
	C									
Electricity (kWh)	16,687	13,539	10,909	9,686	7,277	8,444	8,177	7,625	7,870	
Electricity (kW)	3.8	3.9	3.3	2.7	1.3	2.2	1.8	1.1	0.9	
Heating Gas (Therms)	21	281	543	837	771	1,082	1,369	1,883	2,718	
Water Gas (Therms)	159	173	188	206	220	221	228	238	240	
AC Size (tons)	5.3	5.4	4.8	4.2	3.5	3.4	3.2	3.2	3.4	
Electricity (kWh)	14,156	11,201	8,876	8,355	6,185	7,263	7,013	6,486	6,731	
Electricity (kW)	3.4	3.4	2.8	2.5	1.3	2.1	1.7	1.1	0.9	
Gas (Therms)	20	267	496	722	689	964	1,191	1,634	2,363	
Water Gas (Therms)	159	173	188	206	220	221	227	231	240	
AC Size (tons)	4.5	4.4	3.8	3.7	3.2	3.0	2.8	2.8	3.1	

**BASEMENT**

Housing Energy Weighting	5.1%	21.0%	21.6%	15.3%	7.7%	21.3%	7.5%	0.4%	0.0%	
Percentage of Housing Starts	3.26%	23.62%	24.01%	14.65%	8.94%	18.98%	6.19%	0.34%	0.02%	
	Climate Zone 4									
	Climate Zone 1	Climate Zone 2	Climate Zone 3	Climate Zone 4	Marine	Climate Zone 5	Climate Zone 6	Climate Zone 7	Climate Zone 8	Total
Heating	-0.8%	3.1%	12.6%	9.9%	6.6%	6.7%	9.5%	10.7%	10.5%	7.5%
Cooling	10.4%	13.8%	20.4%	4.2%	0.3%	3.9%	2.5%	3.5%	1.2%	9.5%
Hot Water	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Lighting	25.5%	25.5%	25.5%	25.5%	25.5%	25.5%	25.5%	25.5%	25.5%	25.5%
<b>Total Average Percent Savings</b>	<b>12.3%</b>	<b>11.2%</b>	<b>15.2%</b>	<b>10.3%</b>	<b>8.5%</b>	<b>8.7%</b>	<b>10.4%</b>	<b>12.1%</b>	<b>12.2%</b>	<b>11.2%</b>
<b>Yearly Average Purchased Energy Savings</b>	<b>\$496.41</b>	<b>\$247.14</b>	<b>\$339.84</b>	<b>\$242.07</b>	<b>\$164.97</b>	<b>\$222.47</b>	<b>\$290.73</b>	<b>\$375.60</b>	<b>\$466.58</b>	<b>\$267.96</b>
<b>Total Weighted Percent Savings</b>	<b>10.4%</b>	<b>11.3%</b>	<b>16.4%</b>	<b>10.5%</b>	<b>8.1%</b>	<b>8.9%</b>	<b>10.4%</b>	<b>12.4%</b>	<b>11.9%</b>	<b>11.4%</b>
<b>Yearly Weighted Purchased Energy Savings</b>	<b>\$275.04</b>	<b>\$254.06</b>	<b>\$335.78</b>	<b>\$266.18</b>	<b>\$157.92</b>	<b>\$224.35</b>	<b>\$305.80</b>	<b>\$397.56</b>	<b>\$470.29</b>	<b>\$265.67</b>

Purchased Energy	Climate Zone									
	1	2	3	4	4	5	6	7	8	
	C									
Heating	\$ 88.60	\$ 633.05	\$ 1,038.72	\$ 1,434.83	\$ 1,246.16	\$ 1,700.91	\$ 2,049.41	\$ 2,342.90	\$ 2,993.68	
Cooling	\$ 2,602.19	\$ 887.93	\$ 515.27	\$ 275.95	\$ 62.23	\$ 177.40	\$ 117.45	\$ 47.24	\$ 46.48	
Hot Water	\$ 461.17	\$ 274.09	\$ 269.52	\$ 287.42	\$ 306.07	\$ 285.28	\$ 263.29	\$ 233.20	\$ 205.84	
Lighting	\$ 889.29	\$ 413.62	\$ 408.89	\$ 349.13	\$ 322.75	\$ 396.82	\$ 367.64	\$ 486.29	\$ 591.12	
<b>Total</b>	<b>\$ 4,041.25</b>	<b>\$ 2,208.69</b>	<b>\$ 2,232.41</b>	<b>\$ 2,347.33</b>	<b>\$ 1,937.20</b>	<b>\$ 2,560.41</b>	<b>\$ 2,797.79</b>	<b>\$ 3,109.63</b>	<b>\$ 3,837.11</b>	
Heating	\$ 89.29	\$ 613.57	\$ 908.17	\$ 1,293.44	\$ 1,163.63	\$ 1,586.46	\$ 1,855.34	\$ 2,092.87	\$ 2,678.29	
Cooling	\$ 2,331.70	\$ 765.68	\$ 410.19	\$ 264.24	\$ 62.03	\$ 170.51	\$ 114.48	\$ 45.59	\$ 45.92	
Hot Water	\$ 461.17	\$ 274.09	\$ 269.52	\$ 287.42	\$ 306.07	\$ 285.28	\$ 263.29	\$ 233.20	\$ 205.84	
Lighting	\$ 662.67	\$ 308.21	\$ 304.69	\$ 260.16	\$ 240.50	\$ 295.69	\$ 273.95	\$ 362.37	\$ 440.48	
<b>Total</b>	<b>\$ 3,544.84</b>	<b>\$ 1,961.55</b>	<b>\$ 1,892.57</b>	<b>\$ 2,105.26</b>	<b>\$ 1,772.23</b>	<b>\$ 2,337.95</b>	<b>\$ 2,507.06</b>	<b>\$ 2,734.03</b>	<b>\$ 3,370.53</b>	

Basement      Basement      Basement      Basement      Basement      Basement      Basement      Basement      Basement      Basement

	Climate Zone 4									
	Climate Zone 1	Climate Zone 2	Climate Zone 3	Climate Zone 4	Marine	Climate Zone 5	Climate Zone 6	Climate Zone 7	Climate Zone 8	Total
Electricity (kWh)	3,219	3,203	3,134	2,019	1,860	1,930	1,928	1,943	1,960	<b>2,568</b>
Electricity (kW)	0.4	0.5	0.6	0.1	0.0	0.0	0.1	0.0	(0.0)	<b>0.0</b>
Gas (Therms)	(0)	13	91	101	59	89	167	259	368	<b>114</b>
AC Size (tons)	0.6	0.8	1.0	0.2	0.1	0.1	0.1	0.3	0.3	<b>0.4</b>

	Climate Zone 4									
	Climate Zone 1	Climate Zone 2	Climate Zone 3	Climate Zone 4	Marine	Climate Zone 5	Climate Zone 6	Climate Zone 7	Climate Zone 8	Total
Electricity (kWh)	15.0%	18.1%	21.9%	16.5%	19.9%	17.7%	18.2%	19.6%	19.0%	<b>18.6%</b>
Electricity (kW)	6.5%	8.5%	12.7%	2.5%	0.4%	1.3%	2.1%	0.9%	-0.8%	<b>5.7%</b>
Gas (Therms)	-0.1%	2.2%	10.0%	8.2%	5.3%	5.8%	8.4%	9.8%	9.9%	<b>6.2%</b>
AC Size (tons)	8.4%	10.7%	16.9%	4.0%	2.4%	2.9%	2.6%	6.0%	5.3%	<b>8.0%</b>

Other Metrics	Climate Zone									
	1	2	3	4	4	5	6	7	8	
	C									
Electricity (kWh)	21,532	17,672	14,322	12,252	9,329	10,927	10,613	9,911	10,331	
Electricity (kW)	5.7	5.8	5.0	3.9	2.2	3.5	3.0	2.0	1.7	
Heating Gas (Therms)	34	411	720	1,031	894	1,322	1,773	2,414	3,494	
Water Gas (Therms)	159	173	188	206	220	221	228	238	240	
AC Size (tons)	7.1	7.1	6.2	5.0	4.3	4.1	3.9	4.3	4.9	
Electricity (kWh)	18,313	14,469	11,188	10,233	7,470	8,998	8,685	7,967	8,370	
Electricity (kW)	5.3	5.3	4.3	3.8	2.2	3.4	2.9	2.0	1.7	
Gas (Therms)	35	398	629	930	834	1,233	1,605	2,155	3,126	
Water Gas (Therms)	159	173	188	206	220	221	228	238	240	
AC Size (tons)	6.5	6.3	5.1	4.8	4.2	4.0	3.8	4.1	4.6	

**CRAWL SPACE**

<b>Housing Energy Weighting</b>	5.1%	21.0%	21.6%	15.3%	7.7%	21.3%	7.5%	0.4%	0.0%	
<b>Percentage of Housing Starts</b>	3.26%	23.62%	24.01%	14.65%	8.94%	18.98%	6.19%	0.34%	0.02%	
	<b>Climate Zone 4</b>									
	<b>Climate Zone 1</b>	<b>Climate Zone 2</b>	<b>Climate Zone 3</b>	<b>Climate Zone 4</b>	<b>Marine</b>	<b>Climate Zone 5</b>	<b>Climate Zone 6</b>	<b>Climate Zone 7</b>	<b>Climate Zone 8</b>	<b>Total</b>
Heating	1.7%	6.1%	9.5%	13.6%	10.8%	10.8%	12.8%	14.9%	14.6%	9.7%
Cooling	13.9%	16.7%	20.3%	7.5%	1.5%	5.6%	4.9%	0.9%	-3.5%	11.4%
Hot Water	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Lighting	26.9%	26.9%	26.9%	26.9%	26.9%	26.9%	26.9%	26.9%	26.9%	26.9%
<b>Total Average Percent Savings</b>	<b>13.7%</b>	<b>12.4%</b>	<b>13.1%</b>	<b>12.2%</b>	<b>10.2%</b>	<b>10.6%</b>	<b>12.2%</b>	<b>14.6%</b>	<b>14.7%</b>	<b>12.0%</b>
<b>Yearly Average Purchased Energy Savings</b>	<b>\$418.67</b>	<b>\$212.17</b>	<b>\$220.42</b>	<b>\$235.51</b>	<b>\$156.21</b>	<b>\$211.20</b>	<b>\$261.90</b>	<b>\$339.41</b>	<b>\$419.50</b>	<b>\$222.69</b>
<b>Total Weighted Percent Savings</b>	<b>11.9%</b>	<b>12.5%</b>	<b>14.3%</b>	<b>12.3%</b>	<b>9.9%</b>	<b>10.8%</b>	<b>12.3%</b>	<b>14.8%</b>	<b>14.6%</b>	<b>12.3%</b>
<b>Yearly Weighted Purchased Energy Savings</b>	<b>\$240.46</b>	<b>\$216.32</b>	<b>\$217.02</b>	<b>\$257.74</b>	<b>\$153.84</b>	<b>\$211.65</b>	<b>\$277.93</b>	<b>\$358.53</b>	<b>\$431.16</b>	<b>\$221.23</b>

Purchased Energy	Climate Zone									
	1	2	3	4	4	5	6	7	8	
	C									
Heating	\$ 67.89	\$ 491.72	\$ 764.45	\$ 1,204.00	\$ 985.93	\$ 1,317.78	\$ 1,564.60	\$ 1,777.72	\$ 2,264.95	
Cooling	\$ 2,028.50	\$ 714.39	\$ 420.16	\$ 246.68	\$ 56.68	\$ 158.38	\$ 103.81	\$ 43.40	\$ 46.74	
Hot Water	\$ 461.17	\$ 274.09	\$ 269.52	\$ 287.42	\$ 306.07	\$ 285.28	\$ 263.29	\$ 233.20	\$ 205.84	
Lighting	\$ 502.72	\$ 233.82	\$ 231.14	\$ 197.36	\$ 182.45	\$ 224.32	\$ 207.83	\$ 274.90	\$ 334.16	
<b>Total</b>	<b>\$ 3,060.28</b>	<b>\$ 1,714.02</b>	<b>\$ 1,685.28</b>	<b>\$ 1,935.46</b>	<b>\$ 1,531.13</b>	<b>\$ 1,985.77</b>	<b>\$ 2,139.53</b>	<b>\$ 2,329.22</b>	<b>\$ 2,851.69</b>	
Heating	\$ 66.74	\$ 461.85	\$ 691.65	\$ 1,040.18	\$ 879.68	\$ 1,175.84	\$ 1,363.74	\$ 1,512.66	\$ 1,933.74	
Cooling	\$ 1,746.25	\$ 595.01	\$ 334.74	\$ 228.10	\$ 55.81	\$ 149.48	\$ 98.70	\$ 43.02	\$ 48.37	
Hot Water	\$ 461.17	\$ 274.09	\$ 269.52	\$ 287.42	\$ 306.07	\$ 285.28	\$ 263.29	\$ 233.20	\$ 205.84	
Lighting	\$ 367.45	\$ 170.90	\$ 168.95	\$ 144.26	\$ 133.36	\$ 163.96	\$ 151.90	\$ 200.93	\$ 244.24	
<b>Total</b>	<b>\$ 2,641.61</b>	<b>\$ 1,501.85</b>	<b>\$ 1,464.86</b>	<b>\$ 1,699.95</b>	<b>\$ 1,374.91</b>	<b>\$ 1,774.57</b>	<b>\$ 1,877.63</b>	<b>\$ 1,989.81</b>	<b>\$ 2,432.19</b>	

Crawl      Crawl      Crawl      Crawl      Crawl      Crawl      Crawl      Crawl      Crawl      Crawl

	Climate Zone 4								Total	
	Climate Zone 1	Climate Zone 2	Climate Zone 3	Climate Zone 4	Marine	Climate Zone 5	Climate Zone 6	Climate Zone 7		Climate Zone 8
Electricity (kWh)	2,441	2,316	2,043	1,300	1,082	1,158	1,144	1,140	1,141	<b>1,699</b>
Electricity (kW)	0.4	0.5	0.5	0.1	0.0	0.1	0.0	0.0	(0.0)	<b>0.0</b>
Gas (Therms)	0	19	51	117	76	110	173	273	387	<b>162</b>
AC Size (tons)	0.7	0.8	0.8	0.4	0.2	0.2	0.2	0.2	0.2	<b>0.4</b>

	Climate Zone 4								Total	
	Climate Zone 1	Climate Zone 2	Climate Zone 3	Climate Zone 4	Marine	Climate Zone 5	Climate Zone 6	Climate Zone 7		Climate Zone 8
Electricity (kWh)	14.7%	16.6%	18.0%	13.0%	14.5%	13.2%	13.5%	14.7%	14.3%	<b>15.1%</b>
Electricity (kW)	9.6%	11.6%	13.7%	4.5%	1.0%	2.4%	1.6%	0.8%	-2.7%	<b>7.3%</b>
Gas (Therms)	0.3%	3.9%	7.1%	11.0%	8.2%	8.8%	11.0%	13.2%	13.4%	<b>7.4%</b>
AC Size (tons)	13.0%	16.1%	18.1%	9.2%	4.3%	6.6%	5.9%	7.6%	4.9%	<b>11.6%</b>

Other Metrics	Climate Zone									
	1	2	3	4	4	5	6	7	8	
	C									
Electricity (kWh)	16,662	13,931	11,320	10,006	7,451	8,782	8,448	7,752	8,004	
Electricity (kW)	3.9	4.0	3.3	2.7	1.4	2.3	1.9	1.2	1.0	
Heating Gas (Therms)	26	318	529	865	706	1,024	1,353	1,831	2,643	
Water Gas (Therms)	159	173	188	206	220	221	228	238	240	
AC Size (tons)	5.0	5.1	4.6	4.0	3.5	3.2	3.0	3.1	3.2	
Electricity (kWh)	14,221	11,615	9,278	8,706	6,370	7,624	7,304	6,612	6,863	
Electricity (kW)	3.5	3.5	2.9	2.6	1.4	2.3	1.9	1.2	1.0	
Gas (Therms)	26	299	478	747	630	914	1,180	1,558	2,257	
Water Gas (Therms)	159	173	188	206	220	221	228	238	240	
AC Size (tons)	4.4	4.3	3.7	3.7	3.4	3.0	2.8	2.9	3.1	