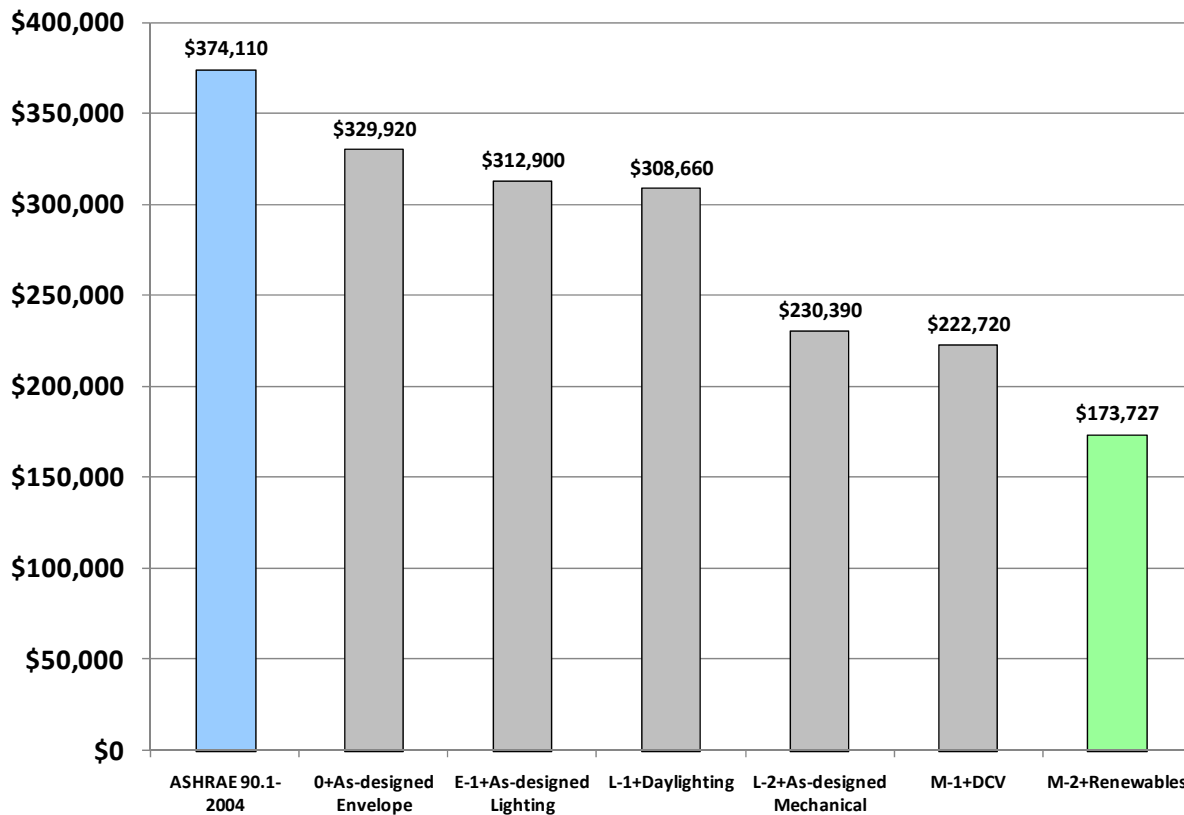


## Analysis Results

Results of the analysis are summarized in the Table below. The as-designed building will achieve approximately \$200,386 (53.6%) in annual utility savings per year as compared to a minimally compliant ASHRAE 90.1-2004 building. More detailed results are shown in the Table and Figure below.

#	Description	Peak		Total Energy	Electric			Utility Cost		LEED		
		Cooling Tons	Electric kW	Electric kWh	Lighting kWh	HVAC kWh	Equip kWh	Total \$	Total \$/sqft	LEED %	EAc1	EAc2
B-0	ASHRAE 90.1-2004	522	1287	3,648,400	549,700	2,307,200	560,500	\$374,110	\$1.99			
E-1	0+As-designed Envelope	448	1104	3,266,700	549,700	1,925,600	560,500	\$329,920	\$1.76	11.8%	1	
L-1	E-1+As-designed Lighting	436	1047	3,052,300	424,700	1,871,900	560,500	\$312,900	\$1.67	16.4%	2	
L-2	L-1+Daylighting	432	1032	3,004,200	383,200	1,865,400	560,500	\$308,660	\$1.64	17.5%	2	
M-1	L-2+As-designed Mechanical	360	912	2,411,900	383,200	1,273,200	560,500	\$230,390	\$1.23	38.4%	8	
M-2	M-1+DCV	330	851	2,371,000	383,200	1,232,400	560,500	\$222,720	\$1.19	40.5%	9	
R-1	M-2+Renewables	330	851	1,849,429	383,200	1,232,400	560,500	\$173,727	\$0.93	53.6%	10	3



## LEED Calculations

From a LEED perspective, the building is 53.6% below ASHRAE and is potentially eligible for ten (10) LEED credits according to Option 1 under EA Credit 1, as well as three (3) credits under EA Credit 2. Calculations are provided in this section in the format prescribed by the USGBC.

### Energy & Cost Summary

End-Use	Energy Type	Baseline (ECB')			Proposed (DEC'')	
		Electric kWh	Energy Use kBtu/sf/yr	Energy Cost %	Electric kWh	Energy Use kBtu/sf/yr
Lighting	Electric	549,733	10.0	15%	383,165	7.0
Misc Equipment	Electric	560,451	10.2	15%	560,451	10.2
Space Heating	Electric	332,277	6.0	9%	191,059	3.5
Space Cooling	Electric	1,337,599	24.3	37%	524,781	9.5
Fans	Electric	637,631	11.6	17%	333,568	6.1
Pumps/Aux	Electric	-	-	0%	183,008	3.3
Exterior	Electric	142,121	2.6	4%	106,460	1.9
Domestic Hot Water	Electric	88,546	1.6	2%	88,546	1.6
<b>Subtotal Regulated</b>		<b>3,648,358</b>	<b>66.3</b>	<b>100%</b>	<b>2,371,038</b>	<b>43.1</b>
<b>Regulated Cost \$</b>		<b>\$374,114</b>	<b>\$374,114</b>		<b>\$222,721</b>	<b>\$222,721</b>
<b>Total Building</b>	<b>Energy Cost</b>	<b>3,648,358</b>	<b>66.3</b>		<b>2,371,038</b>	<b>43.1</b>
		<b>\$374,114</b>	<b>\$1.99</b>		<b>\$222,721</b>	<b>\$1.19</b>

Annual Energy & Utility Cost Summary by Fuel	ECB' Use kBtu/sqft	ECB' Cost \$	DEC'' Use kBtu/sqft	DEC'' Cost \$	DEC''/ECB' Energy %	DEC''/ECB' Cost %
Electricity	66.3	\$374,114	43.1	\$222,721	65.0%	59.5%
Subtotal Non-Renewable (DEC')	66.3	\$374,114	43.1	\$222,721	65.0%	59.5%
Subtotal Renewable (REC')			(9.5)	(\$48,993)	-14.3%	-13.1%
<b>Total (DEC'')</b>	<b>66.3</b>	<b>\$374,114</b>	<b>33.6</b>	<b>\$173,728</b>	<b>50.7%</b>	<b>46.4%</b>
Percent Savings = 100 x (ECB' \$ - DEC'' \$)/ECB' \$ = <b>53.6%</b> Credit 1 Points = <b>10</b> % Renewable Energy = 100 x (REC' / DEC'') = <b>22.0%</b> Credit 2 Points = <b>3</b> EA Credit 1 & 2 Points = <b>13</b>						