



8042 S. Martin Luther King Dr. Energy Analysis

The following report provides the estimated energy usage of the residence to be built at 8042 S. Martin Luther King Dr. REM/Rate energy modeling software was used to generate all estimated energy usages and costs. Figure 1 shows a breakdown of the total annual energy costs for the building as designed.

Figure 1 8042 S. MLK Dr. Annual Energy Cost Breakdown

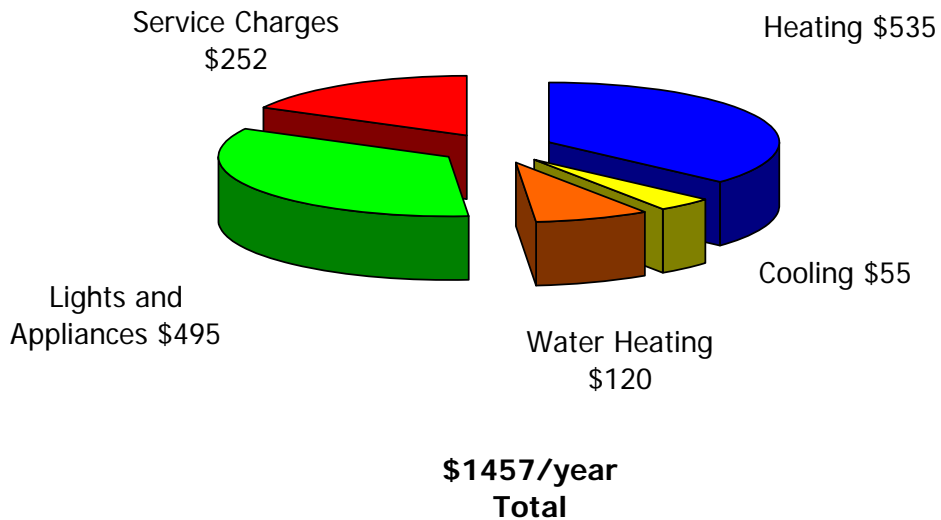


Table 1 compares annual energy costs of the building as designed to a typical building.

Table 1 Annual Energy Costs

Component	8042 S. MLK Dr.	Typical Construction	Savings	Difference
Heating	\$535	\$876	\$341	39%
Cooling	\$55	\$82	\$27	33%
Water Heating	\$120	\$181	\$61	34%
Lights and Appliances	\$495	\$645	\$150	23%
Service Charges	\$252	\$252	\$0	0%
Total	\$1,457	\$2,036	\$579	28%

Note to Table 1: Typical Construction assumes R-13 wall insulation, R-19 roof insulation, no window overhangs, no skylights, a 64,000 Btu furnace at 80% efficiency, a 50 gal water heater at 54% efficiency, a 5 ton conventional air conditioner at 14 SEER, and standard appliances and lighting

Figure 2 presents a graphic comparison of annual energy costs of the building as designed and a typical building.

Figure 2 Annual Energy Costs

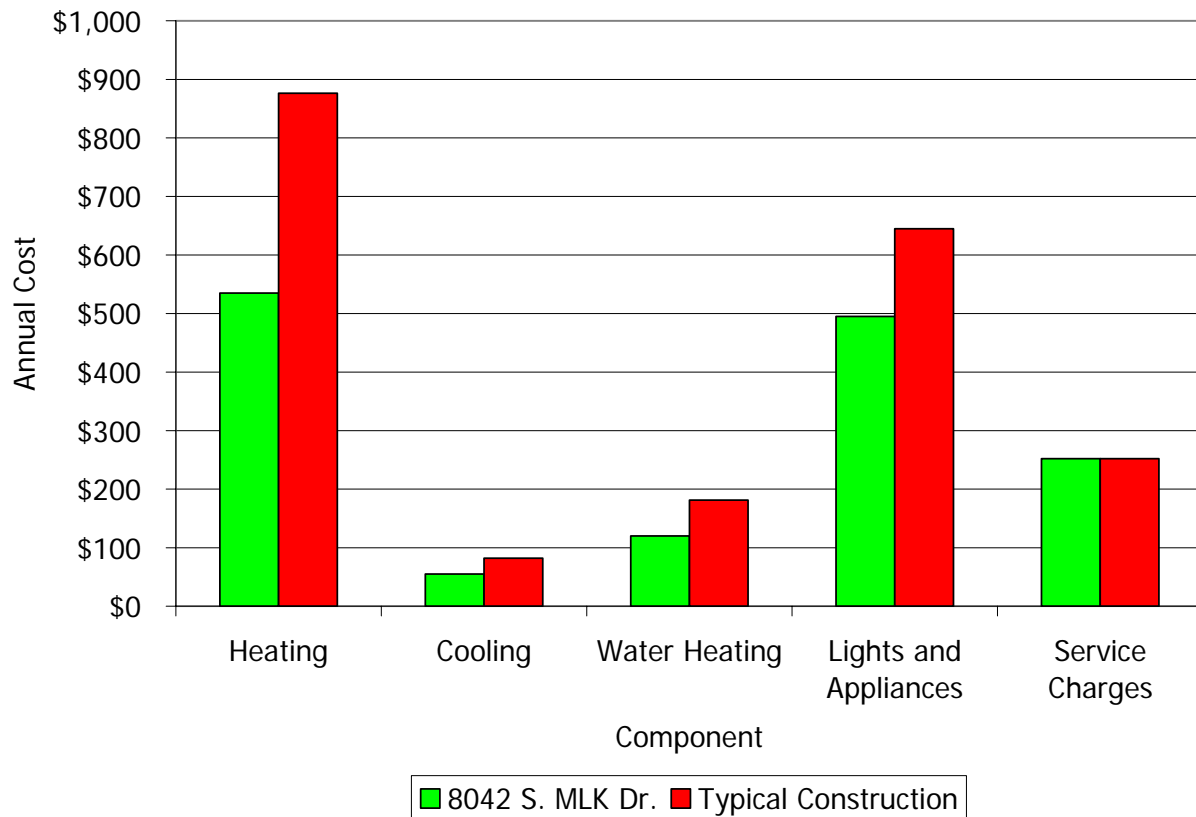


Table 2 compares annual energy usage of the building as designed to a typical building.

Table 2 Annual Energy Usage

Component	8042 S. MLK Dr. (MMBtu/year)	Typical Construction (MMBtu/year)	Savings (MMBtu/year)	Difference
Heating	21	120	99	82%
Cooling	2	3	1	33%
Water Heating	13	22	9	41%
Lights and Appliances	25	32	7	21%
Total	62	177	116	65%

Note to Table 2: Typical Construction assumes R-13 wall insulation, R-19 roof insulation, no window overhangs, no skylights, a 64,000 Btu furnace at 80% efficiency, a 50 gal water heater at 54% efficiency, and a 5 ton conventional air conditioner at 14 SEER

Figure 3 presents a graphic comparison of annual energy usage of the building as designed and a typical building.

Figure 3 Annual Energy Usage

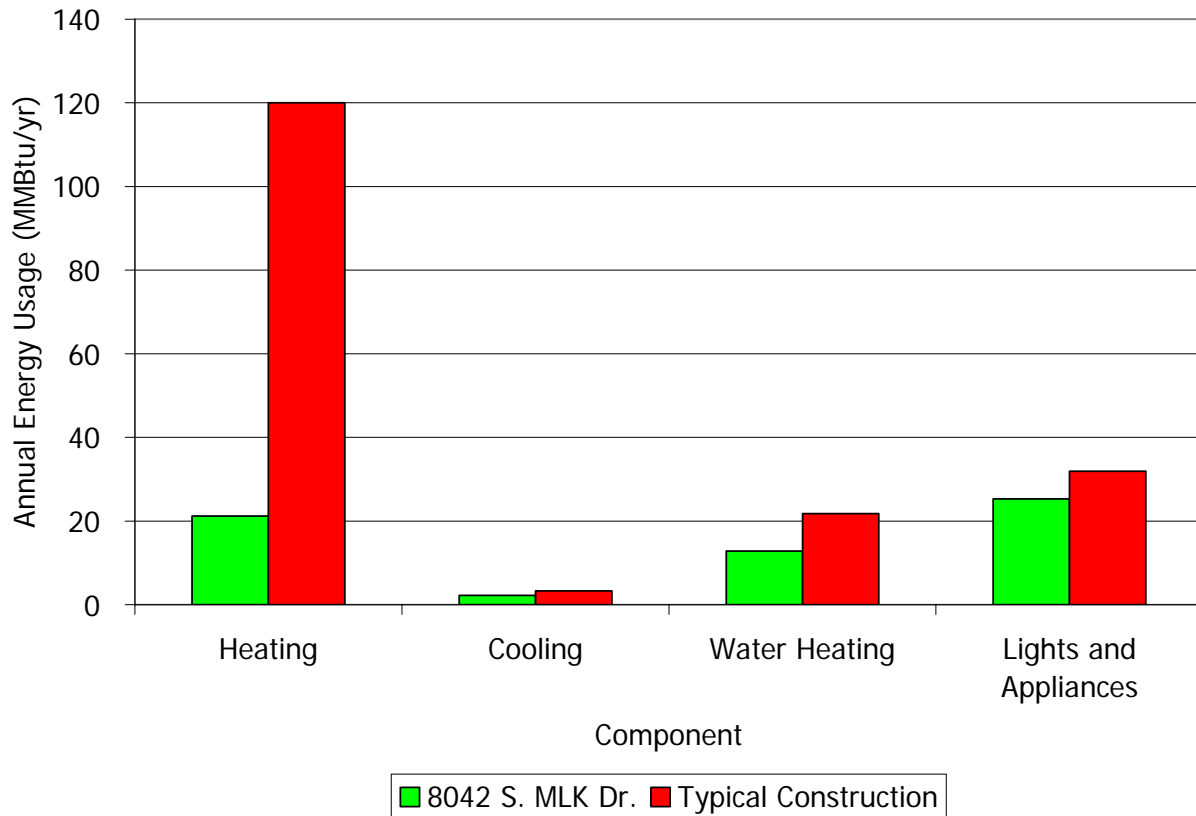
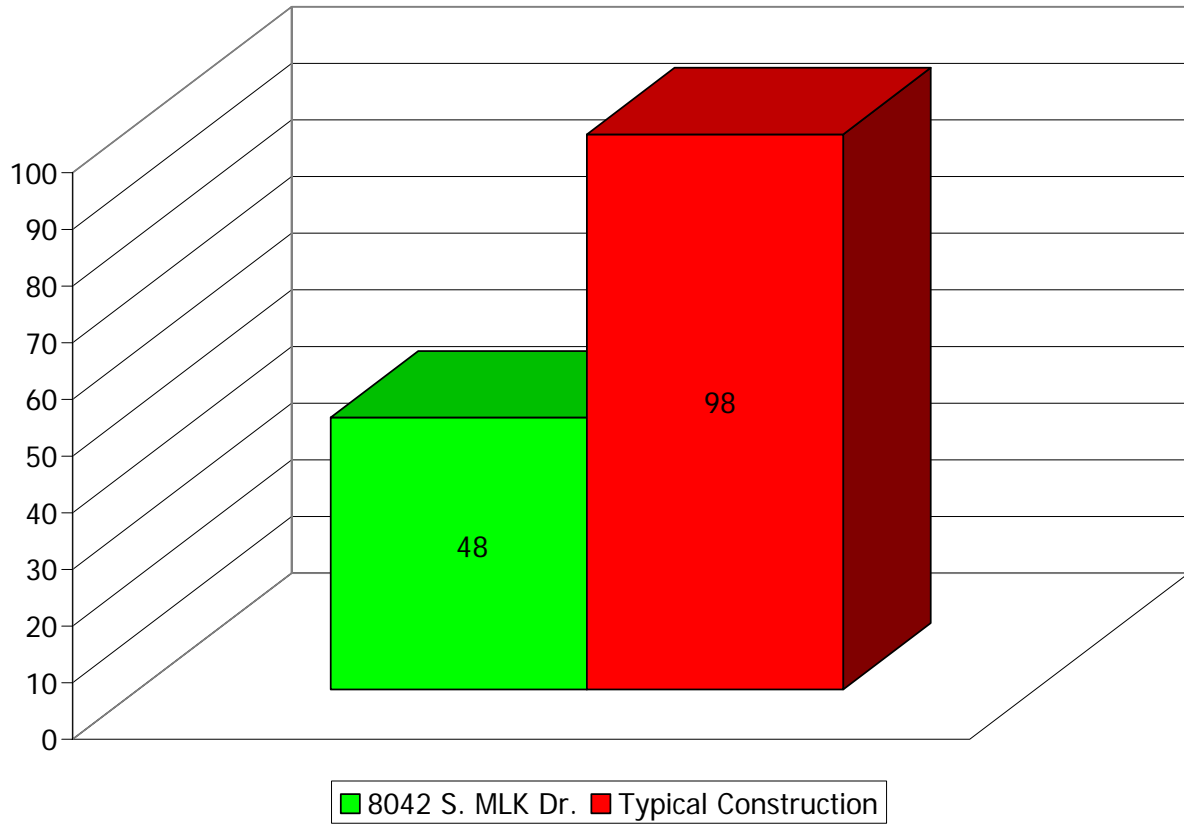


Figure 4 presents a graphic comparison of the Home Energy Rating System Program (HERS) Index for the building as designed and a typical building. It should be noted that a lower index represents a lower energy usage and a more efficient building.

Figure 4 Home Energy Rating System Program (HERS) Index



Note to Figure 4: A HERS Index of 100 represents the energy use of the American Standard Building and an Index of 0 (zero) indicates that the Proposed Building uses no net purchased energy (a Zero Energy Building).