



## Midnight Sun Council, Boy Scouts of America (MSC)

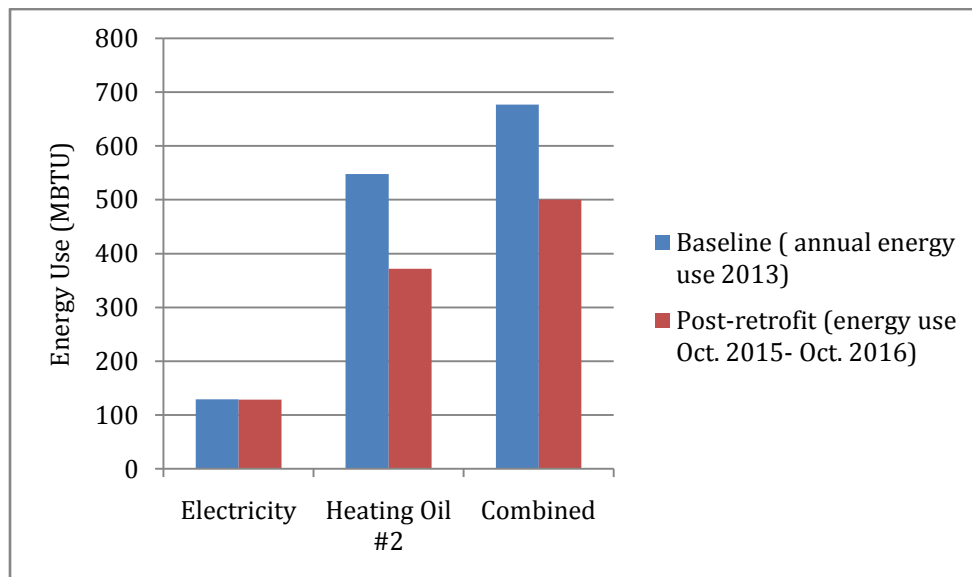


**Auditor:** Nortech

**Audit date:** November 2014

### Nonprofit summary

Midnight Sun Council (MSC) implemented the lighting retrofit suggested in its 2014 audit, although the organization switched bulbs to more efficient fluorescent bulbs rather than the suggested LEDs. MSC also installed lighting occupancy sensors in the bathrooms and programmed the existing thermostat to incorporate a nightly setback.





### Retrofit costs

**Level I audit cost:** \$1,500

**Level II audit cost:** \$4,096

**Predicted retrofit cost:** \$19,054

**Actual retrofit cost:** \$5,792

**Notes:** MSC utilized office staff and existing operating budget resources to complete the retrofit. The organization did not complete all of the recommendations listed in the audit.

### Energy savings

Annual consumption	Baseline	Post-retrofit	Notes
Monetary	\$22,582	\$13,788	Baseline energy use is the annual use in 2013 for the facility.  Post-retrofit energy use is from October 2015 to October 2016.
Electricity	37,688 kWh (129 MBTU)	37,680 kWh (128 MBTU)	
Heating Oil #2	548 gallons (548 MBTU)	372 gallons (372 MBTU)	
Total Energy	676 MBTU	500 MBTU	
Annual Savings	Modeled	Post-retrofit	
Monetary	\$5,093	\$8,794	
Electricity	13,281 kWh (45 MBTU)	8 kWh (0.03 MBTU)	
Heating Oil #2	611 gallons (84 MBTU)	1,259 gallons (176 MBTU)	
Total Energy	129 MBTU	176 MBTU	

### Non-energy changes

**Building occupancy:** MSC has added 2 more staff members since the audit.

**Building use:** The building is occupied more often as the number of meetings has increased. Also, staff installed heat tape to melt snow on the roof each spring to reduce snowmelt leaking into the building.

**Occupant comfort:** Staff commented that building comfort has not changed and they were unable to tell a difference in light level with the switch in bulbs.

**Nonprofit services:** No change.