



North Star Council on Aging (NSCA)

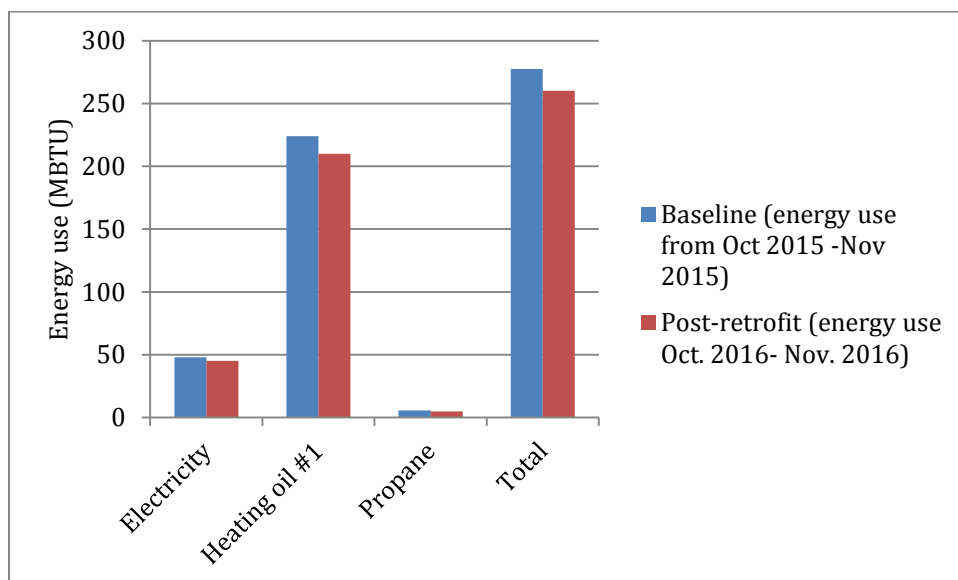


Auditor: Nortech

Audit date: March 2015

Nonprofit retrofit summary

The NSCA pursued several recommendations from the energy audit. They replaced lighting, repaired weather stripping on doors, replaced a broken window, insulated hot water piping, and installed programmable thermostats. They did not consolidate refrigerators or put a timer on the kitchen fan because they expanded the use of their kitchen in order to serve more meals. They have seen energy savings in the two months since retrofits were completed.





Retrofit costs

Level I audit cost: Paid for through the Alaska Mental Health Beneficiary energy efficiency program

Level II audit cost: N/A

Predicted retrofit cost: \$26,090

Actual retrofit cost: \$41,000

Notes: The retrofits were finalized during October 2016. Thus, the full energy savings from the retrofit were not realized until November 2016.

Energy savings

Annual Consumption	Baseline	Post-retrofit	Notes
Monetary	\$6,553	\$6,487	Baseline energy use is the combined monthly energy use from October – November 2015. Post-retrofit energy use is the combined monthly energy use from October – November 2016.
Electricity	14,040 kWh (48 MBTU)	13,240 kWh (45 MBTU)	
Heating oil #1	1,693 gallons (224 MBTU)	1,591 gallons (210 MBTU)	
Propane	61 gallons (6 MBTU)	53 gallons (5 MBTU)	
Total energy	278 MBTU	260 MBTU	
Annual Savings	Modeled	Post-retrofit	Notes
Monetary	\$693	\$66	Modeled savings are combined savings for two months from the annual savings model.
Electricity	2,038 kWh (7 MBTU)	800 kWh (3 MBTU)	
Heating oil #1	56 gallons (8 MBTU)	103 gallons (14 MBTU)	
Propane	0 MBTU	1 MBTU	
Total energy	21 MBTU	17 MBTU	

Non-energy changes

Building occupancy: No change.

Building use: The NSCA now serves a greater number of people for each meal.

Occupant comfort: No change.