



## Alaska Dog Mushers Association (ADMA)



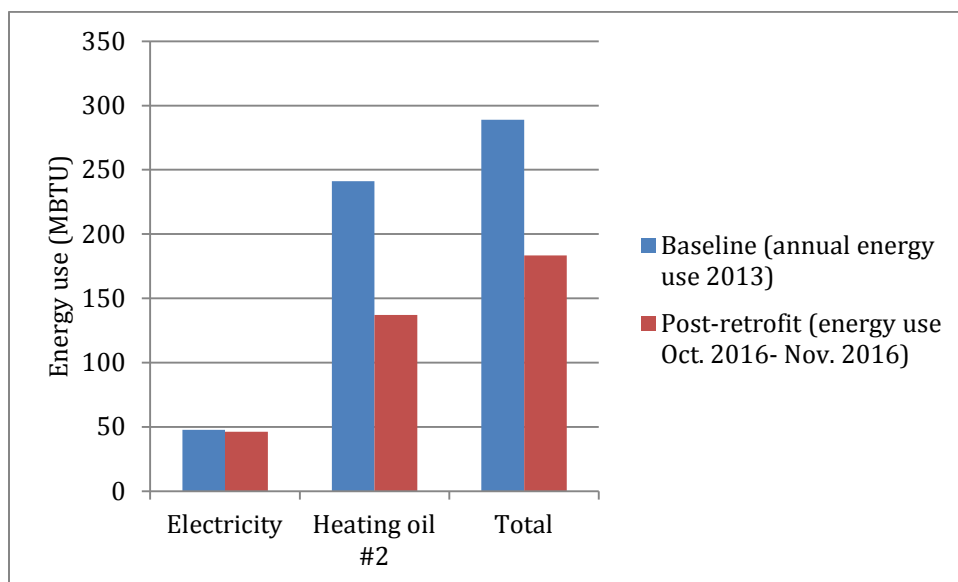
Photo Courtesy of Wisdom and Associates, Inc.

**Auditor:** Wisdom & Associates, Inc.

**Audit date:** August 2015

### Nonprofit retrofit summary

ADMA decided to pursue the audit recommendations for their building envelope and mechanical systems. Contractors installed a new furnace and sealed and insulated ductwork. They also installed a programmable thermostat and replaced two exterior doors, three windows, and insulation in the floor. As a result, energy costs have dropped by approximately \$5,000 per year.





### Retrofit costs

**Level I audit cost:** N/A

**Level II audit cost:** \$3,325

**Predicted retrofit cost:** \$25,175

**Actual retrofit cost:** \$22,000

**Notes:** The actual retrofit cost includes the capital cost of a new furnace, which was not included in the audit cost estimate. The total cost remains lower because ADMA did not pursue the lighting retrofits included in the predicted cost.

### Energy savings

Annual Consumption	Baseline	Post-retrofit	Notes
Monetary	\$9,955	\$5,075	Baseline energy use is the annual use for 2013.  Post-retrofit energy use is the combined monthly energy use from Nov. – Nov. 2016. It is estimated from the cost of energy provided by ADMA staff from their energy bills.
Electricity	13,983 kWh (48 MBTU)	13,546 kWh (46 MBTU)	
Heating oil #2	1,748 gallons (241 MBTU)	993 gallons (137 MBTU)	
Total energy	289 MBTU	183 MBTU	
Annual Savings	Modeled	Post-retrofit	Notes
Monetary	\$3,687	\$4,880	
Electricity	5,335 kWh (18 MBTU)	437 kWh (1 MBTU)	
Heating oil #2	644 gallons (89 MBTU)	755 gallons (104 MBTU)	
Total energy	107 MBTU	106 MBTU	

### Non-energy changes

**Building occupancy:** Increase. ADMA rents out their meeting hall to the community for events. Event rental increased over the course of this project after ADMA contracted a property management company to advertise and manage the rentals.

**Building use:** No change.

**Occupant comfort:** No change.

**Nonprofit services:** No change.