



## St. Matthew's Episcopal Church

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

**Audit date:** August 2015

St. Matthew's Church has been providing ministry in Fairbanks since the Gold Rush days. Since it was established in 1904, it has served as a hospital and library. Today, St. Matthew's offers spiritual services, baptisms, weddings, and funerals to the community as well as providing a shelter for the homeless. It hosts Alcoholics Anonymous meetings, veteran support groups, Native community and leadership meetings, and yoga classes. The Church provides breakfast and lunch to anyone who comes on Sundays.

St. Matthew's applied to participate in the pilot cohort with two buildings and was admitted by the selection committee. Wisdom & Associates, Inc. conducted a Level II building audit on both the Church and rectory for \$4,175.

### Mission

We the people of St. Matthew's Fairbanks, AK, receive God's love and are becoming a warm, loving community who share that love with all of God's children.

### St. Matthew's rectory

St. Matthew's demolished the rectory in 2016 after deciding that the building was not in good enough condition to warrant an energy retrofit.



### St. Matthew's Church building

**Size:** 11,787 ft<sup>2</sup>

#### Fuel consumption

**Baseline annual fuel use:** 942 MBTU

Electricity (41,247 kWh/141 MBTU)

Steam district heat (802 MBTU)

**Baseline EUI:** 80 kBTU/ft<sup>2</sup>/yr

**Baseline annual energy costs:** \$17,093

Electricity (\$8,325)

Steam district heat (\$8,768)



### Audit recommendations for Church (Completed retrofits in black)

Recommendation	Predicted costs	Actual cost	Contractor	Date completed	Notes
<b>HVAC and DHW</b>					
1. Install setback thermostats	\$800	\$234	Mitchell Allen	May 2015	Actual cost is lower because the labor was volunteer. St. Matthews is still planning to replace the water heater.
2. Replace existing water heater	\$2000				
<b>Lighting – LED replacements</b>					
3. Exterior	\$830	\$1,644	TESCO and Samson Electric, Inc.	Dec. 2015 for some exterior lights; new pole lights installed in Nov. 2016	Actual cost is higher because it includes new LED pole lights that were not part of recommendations.
4. Interior	\$20,320				
<b>Building envelope</b>					
5. Air sealing	\$14,000				Many of these recommendations had payback periods greater than 25 years. The Church pursued the recommendations with the shortest payback periods first.
6. Increase ceiling insulation	\$29,354				
7. Replace doors	\$2,593				
8. Replace windows	\$6,122				
9. Add insulation to below-grade walls	\$4,219				
10. Add insulation to above-grade walls	\$1,212				
11. Increase insulation in floor	\$9,494				
	<b>Total:</b>	<b>Total:</b>			
	\$90,943	\$1,878			