

Parish Center HVAC

July 2024



Parish Center

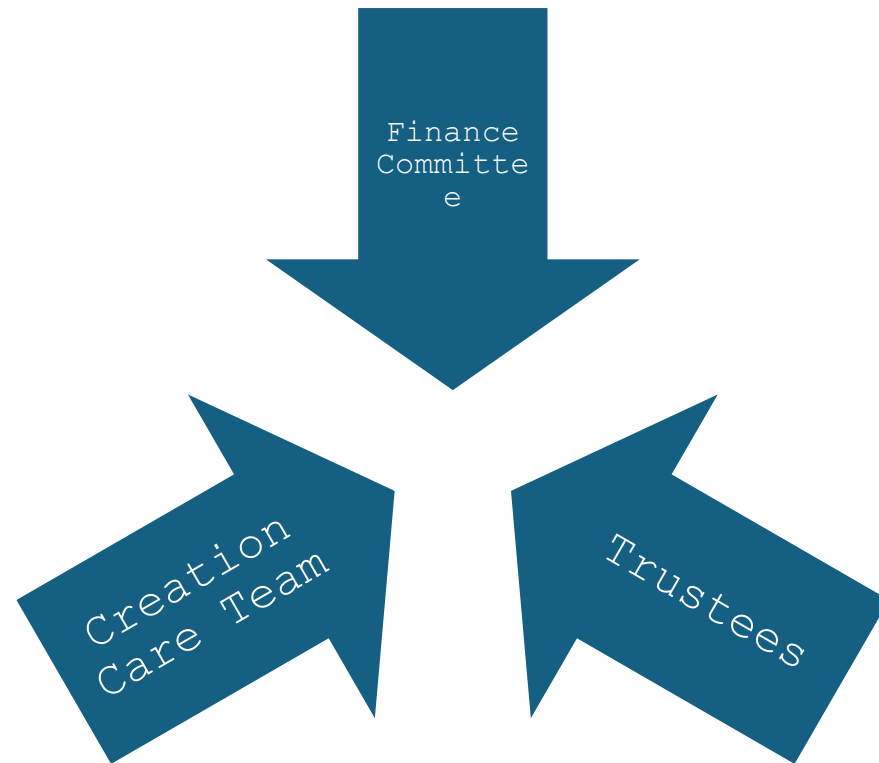
1. Our most used building

- Father's Residence
- Catherines Cupboard
- Religious Education Office
- Administration Offices



Our Team

Parish



Outside Consultants

- Metro IAF
- Taitem Engineering
- Contractors
 - Bryant Heating/Cooling
 - The Ductless Company
 - SureTemp
 - **Auchinachie**

Current HVAC System

Heat


**Crane gas fired boiler
built in 1960**



Cooling

**Window units throughout the
building**





Project Goals

Goal Number 1

Install an effective and efficient heating & cooling system

Goal Number 2

Install a system that will reduce our use of fossil fuels. (lower our carbon footprint)

Design Options

1. Option 1: Fully Electric heating & cooling
2. Option 2: Electric heating & cooling with boiler back-up in the really cold weather.
3. Option 3: Mainly boiler heat with electric back-up and electric cooling.
4. Option 4: Boiler heat with electric cooling





Design considera tion


Effectiveness & Efficiency

Carbon Footprint reduction

Ease of Operation

Ease of Maintenance

Cost



Clean
Heat &
NYSERDA
Incentive
s

Clean Heat

- \$25,000 to \$30,000

NYSERDA

- \$37,000

Cost Considerations

- Gross Cost includes:

1. Conversion from 200 to 400 amp service
2. electrical cost for wiring the air handlers (\$20K for option 1; \$15k for options 2#3)
3. boiler installation in options 2,3 & 4)

	Gross Cost	Clean Heat Incentive Amount	Metro IAF Incentive Amount	Net Cost
1	\$201,050*	\$33,460	\$35,850	\$131,740
2	\$189,050*	\$27,864	\$35,850	\$146,336
3	\$209,050*	0	0	\$209,050
4	\$114,050	0	0	\$114,050

Option 2

POSITIVES

- Efficiency/Effectiveness
- Flexibility
- Customizable
- Significant GHG reduction
- Ability to delay cost
- Overall cost

NEGATIVES

- Significant amount of equipment
- Equipment maintenance
- Use of natural gas in the coldest months.