

Heating/Cooling Infrastructure & Clean Energy Modernization



We are taking action on Peace Church's most pressing need, replacing our 30+ year-old boilers. By installing modern condensing boilers, heat pumps, smart controls, and dedicated air handling, we will eliminate wasted energy, restore comfort across all spaces, and improve indoor air quality. These steps towards energy conservation will also prepare us for rooftop solar panels in the future.



TOP FIVE BENEFITS

- 1 Replacing 30+ Year-Old Boilers & Ensuring Reliability** Our legacy cast-iron boilers are over 30 years old and operating far below modern efficiency standards, and we use expensive and inefficient supplemental electric baseboard heat where we lack ductwork. Replacing the boilers now avoids catastrophic mid-winter failures and dramatically lowers ongoing gas and electric costs by 40%.
- 2 Fixing Underserved Spaces** Many assume the boilers handle the entire building, but critical areas are left out. This project delivers dedicated, reliable heating and cooling to the Fellowship Hall, which currently has none. Additionally, the new system will install proper ventilation to supply fresh, clean outside air to the Fireside Room and the lower level for the first time, bringing this area up to code for any future renovation. The Sanctuary air handling unit will be repaired, bringing in fresh air ventilation with the addition of AC cooling.
- 3 Wildfire Smoke Protection & Indoor Air Quality** Having to close our doors for two days due to smoke exposure highlighted a major building vulnerability. The updated system integrates advanced filtration and automated dampers that can isolate external smoke while filtering indoor air—ensuring our facility stays safe and open during poor air quality events.
- 4 Unified Smart Building Controls** Instead of uncoordinated units competing across the building, a central Building Automation System (BAS) will coordinate the new boilers, office HVAC, heat pumps, and AC. Smart controls automatically balance fresh air and temperature zone-by-zone, preventing energy waste and laying the digital foundation for future rooftop solar panels.
- 5 Expert Partnership: Minify Energy & the Center for Energy and Environment (CEE)** We are partnering with Minify Energy for turnkey engineering, installation, and project management, alongside technical oversight from the CEE. This collaboration guarantees optimal system design while maximizing utility rebates, state grants, and federal incentives to lower net costs.

SYSTEM COMPARISON AT A GLANCE

Area / Feature	Current System	Upgraded System
BOILERS	30+ years old; high risk of catastrophic failure & energy waste	High-efficiency modern condensing boilers plus air source heat pump chillers
FELLOWSHIP HALL	No functioning heat	Reliable, dedicated year-round heating and cooling
LOWER LEVEL AIR	Stale air; no fresh air intake	Continuous dedicated fresh air ventilation. Up to code to allow for future construction projects
SANCTUARY	Broken air handling unit no longer in use	Repairs to return to fresh air ventilation plus AC cooling
SMOKE READINESS	Manual closures during heavy smoke	Filtered recirculation mode 'keeps doors open'
SYSTEM CONTROLS	Uncoordinated, independent units and thermostats set manually	Unified digital Building Automation System