



...At this point in history we face the existential threat of climate change destroying God’s Creation and the future of humanity and living creatures on this planet...The time is now to act with concrete and measurable actions as a church and as disciples.

-Overture ENV 05. Passed by the 225th General Assembly of PC (USA) in 2022

The Creation Care Team spent a year researching what our church could do and, with Session’s support, is recommending these 3 Bright Ideas:



*Replace Fluorecents
In the Office, Kitchen,
Hallways, Restrooms,
Cloakroom, etc.*

Cost

All fixtures and install:
\$ 36,000
Estimated Rebates: \$ 2,900
Net Final Cost: \$ 33,100

Benefits

Annual Savings in utility bills and maintenance:
\$ 5,600
(Pay Back in 5.9 years)
Est Annual Greenhouse Gas Reduction:
23.9 Tons CO2
(Equivalent to the annual emissions of 4.2 Homes, 4.8 Cars, or burning 2,438 gallons of gas)



Our Boiler System:

- *Old- beyond its life expectancy! (Installed in 1957 and 1996)*
- *Inefficient- a lot of energy going right out the roof*
- *Requiring a LOT of maintenance*
- *Concern there could be VERY costly catastrophic failure*

Estimated Costs

New gas boiler system; adding air conditioning for Westminster Room & Fellowship Hall:
\$164,500
Geothermal heating and cooling:
TBD

Benefits

Replacing a 30% efficiency system with one that is 95%+ efficient. Geothermal installations eligible for a 40% Direct Pay from federal funds.



Install a 50 kW Solar System

Cost

All equipment and installation \$167,066
Direct Pay rebate \$66,826
Net Final Cost: \$102,240

Benefits

Solar would provide clean energy and be a public statement about our church’s commitment.

Estimated first year electric bill savings:
\$6,785

HOW DO WE PAY FOR IT?



**Estimated Total of all 3 Projects =
\$370,000 - \$400,000**

PC(USA) Investment Loan Program

Can borrow up to 90%. 20 year loan at 4.9%; no prepayment penalty.

For example, if total projects = \$400,000

Raise 10% (\$40,000)

Borrow \$360,000

\$360,000 Loan = Monthly payment: \$2,356

Capital Campaign

Goal is to raise \$300,000

Government (IRA) direct payment & other environmental rebates

We'll receive \$69,726 back in the first year from the LED & solar projects, so we can pay off a significant chunk of our PILP loan in the first year.

Savings on our utility bills

- LED lights: \$466/month
- 50kW solar install: \$565/month
- New HVAC: TBD

Other grants

We are exploring other grant opportunities as well