

Sheet CZ 3 Carbon Free Heating

Health Warning

These are no more than suggestions based on some experiences in churches elsewhere.
They may or may not suit your particular building and usage.

What are the Options?
You may be best suited with a combination.

Heat the Space

Heat people directly

Heat emitted through fans or radiators heats the space.
Needs to be on for longer periods to be effective
Can provide all-round heat
Likely to incur higher energy usage
Likely to be higher capital cost than heating people.

Heat targeted on where people are
Quick warm up
Switch on when needed
Building and airspace remain cool
Lower energy usage
Likely to be lower capital cost than heating spaces

One for the future, maybe

Likely to suit larger churches with high daily usage

Good for smaller churches with infrequent use
Less well suited to churches with heavy daily use

Green Gas

Limited availability,
Possible conversion of a gas system,
One to watch

Biofuel

Solid biofuels may use existing water based radiator system.
Space needed for fuel storage.
Fuel feed system can be expensive.
Probably not cost justifiable for smaller churches.

Ground Source Heat Pumps

Heat Pumps powered by electricity

Air Source Heat Pumps

Bore hole

Shallow sub-surface array

Air to Air Heat Pumps

Air to Water Heat Pumps

Under-floor electric heating is more aligned with heating spaces than people.

This is likely to be part of a major re-ordering.

Direct Electric

The options below may be used singly or in combinations to suit different locations in the church

Suspended Overhead IR heaters

Far Infra-red Panels

Under Pew

Heated Cushions

HELP

For more information on Heating Systems go to

<https://www.churchofengland.org/resources/churchcare/advice-and-guidance-church-buildings>

