

Why focus on net zero carbon, when there are so many other pressures?





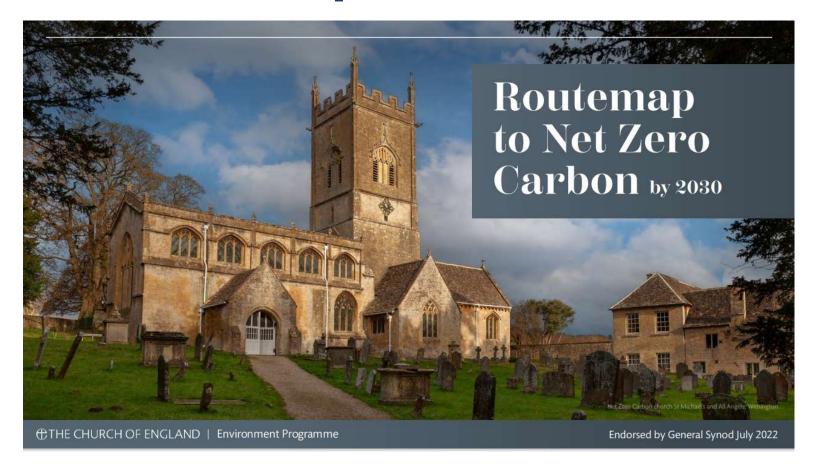








### **CofE Routemap to Net Zero Carbon**







## **CofE Routemap to Net Zero Carbon**

### A vision for our buildings in 2030

- The buildings of the Church will be warm, bright and welcoming, powered by renewable energy and using low or zero carbon technologies for heat and light.
- Energy consumption for the Church as a whole will have fallen, on-site renewable energy generation will have increased, travel will be by low carbon means.
- Carbon emissions will be less than 10% of those now, offset in verified schemes.







# What is in scope for our diocese?

- 180 Churches
- 42 Schools
- Cathedral
- 146 Clergy Houses
- Diocesan Office
- Work-related Travel











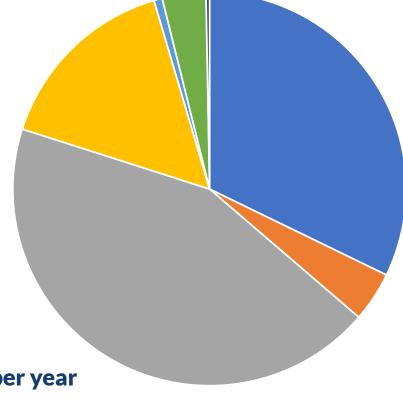


## **CofE Birmingham sources of emissions**



- Church Halls (4%)
- Schools (44%)
- Housing (16%)
- Offices (>1%)
- Other Buildings (4%)
- Travel (>1%)

Total 7,500 CO2e tonnes per year



2021 data





# **CofE Birmingham Progress 2023**

- More accurate energy use information gathered.
- Identified our top 20% highest energy using churches.
- CofEB Net Zero Carbon Action Plan written.
- Funding for a CofEB Net Zero Carbon Project Manager.





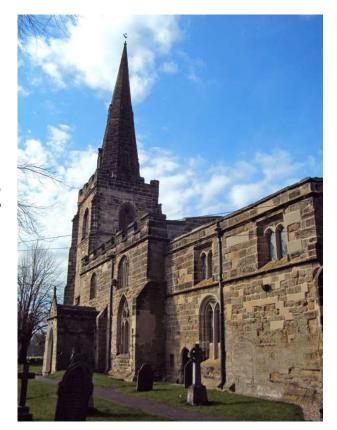


## **Working towards Net Zero Carbon**

The journey will be different for every church.

### There are barriers, but:

- 10% of our churches already emit less than 1 CO2 tonnes per year.
- Actions towards Net Zero Carbon can have other benefits.
- Quick wins are available for most churches.







### **Quick Wins**

### Low cost / no cost actions

Match heating timing to use

Turn off heating before end of service

Complete the EFT each year and communicate the results

Create an Energy Champion to review use

Encourage people to turn things off

Move PCC meetings elsewhere during cold months

Get your energy supplier to install a smart meter

Vary service times in winter

Maintain the roof and gutters

Fix broken window panes

Insulate around heating pipes

Draught proof around gaps

As lights fail, replace with LED bulbs where suitable





## Key themes for churches

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- Understand
- Plan
- Maintain
- Reduce







## **Grant Funding**

- Environment fundraising resources on CofE website.
- CofE has committed £190m towards NZC.
- £30m committed up to end of 2025.
- CofE NZC Demonstrators Project.
- Smaller CofE NZC grants expected.
- Get prepared to apply!







### **Practical Path to Net Zero Carbon**

Possible actions to reduce church carbon emissions

Starts with relatively simple 'quick wins' that nearly all churches can benefit from

Up to bigger, more complex projects

#### CHECKLIST

	rt A - Where do we start?	9.0	ple	fy	Jer 8	
These are actions that nearly all churches can benefit from, even those primarily used only on a Sunday.		don	Not applicable	Not a priority right now	furt	Priority
They are relatively easy and are a good place for churches		ady	app	ght	ore et a	Prio
	rt, when trying to move towards 'net zero'.	Already done / up-to-date	Not	No.	Explore further / get advice	
The t	ouilding itself:					
A1.	Maintain the roof and gutters, to prevent damp entering the building and warm air escaping.					
A2	Fix any broken window panes* and make sure opening windows shut tightly, to reduce heat loss.					
A3	Insulate around heating pipes to direct heat where you want it, this may allow other sources of heat to be reduced in this area.					
A4	If draughts from doors are problematic, draught-proof the gaps or put up a door-curtain*.					
A5	Consider using rugs/floor-coverings (with breathable backings) and cushions on/around the pews/chairs.					
Heati	ing and lighting:					
A6	Switch to 100% renewable electricity (for example through Parish Buying's energy basket) and 'green' gas.					
A7	Match heating settings better to usage, so you only run the heating when necessary*.					
A8.	If you have water-filled radiators, try turning off the heating 15 minutes before the service ends; for most churches this allows the heating system to continue to radiate residual warmth*.					
A9.	If you have radiators, add a glycol based 'anti-freeze' to your radiator system and review your frost setting.					
A10.	Replace lightbulbs with LEDs, where simple replacement is possible.					
A11.	Replace floodlights with new LED units.					
A12.	If you have internet connection, install a HIVE- or NEST-type heating controller, to better control heating.					
A13.	If your current appliances fail, then replace with A+++ appliances.					
	ele and policies:					
	Complete the Energy Footprint Tool each year, as part of your Parish Return, and communicate the results.					
A15.	Create an Energy Champion who monitors bills and encourages people to turn things off when not needed.					
A16.	Write an energy efficiency procurement policy; commit to renewable electricity and A+++ rated appliances.					
A17.	Consider moving PCC meetings elsewhere during cold months, rather than running the church heating.					





