



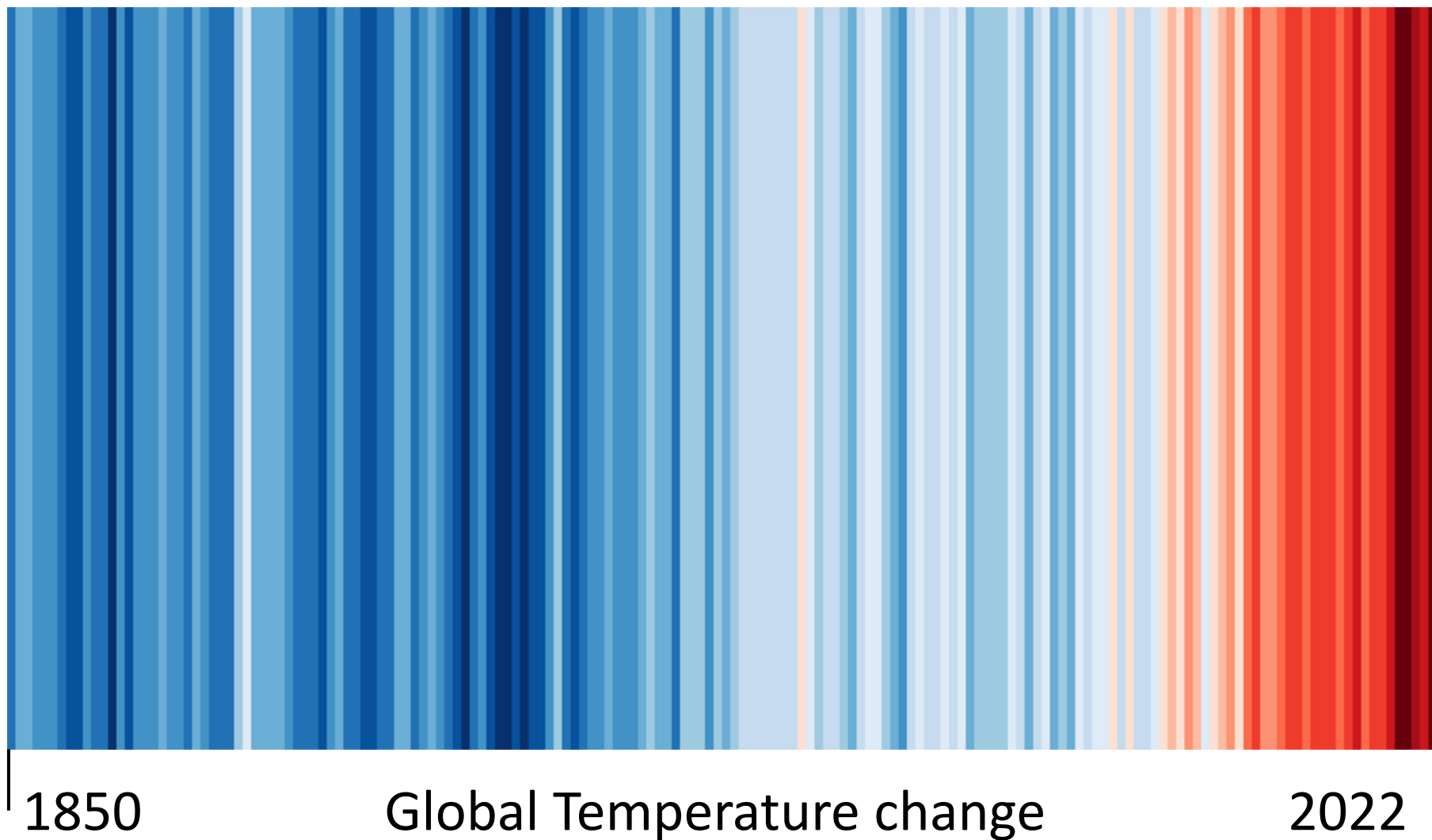
# Routemap to Net Zero Carbon by 2030

Net Zero Carbon church St Michael's and All Angels, Withington

⊕ THE CHURCH OF ENGLAND | Environment Programme

Endorsed by General Synod July 2022

[Net zero carbon routemap | The Church of England](#)





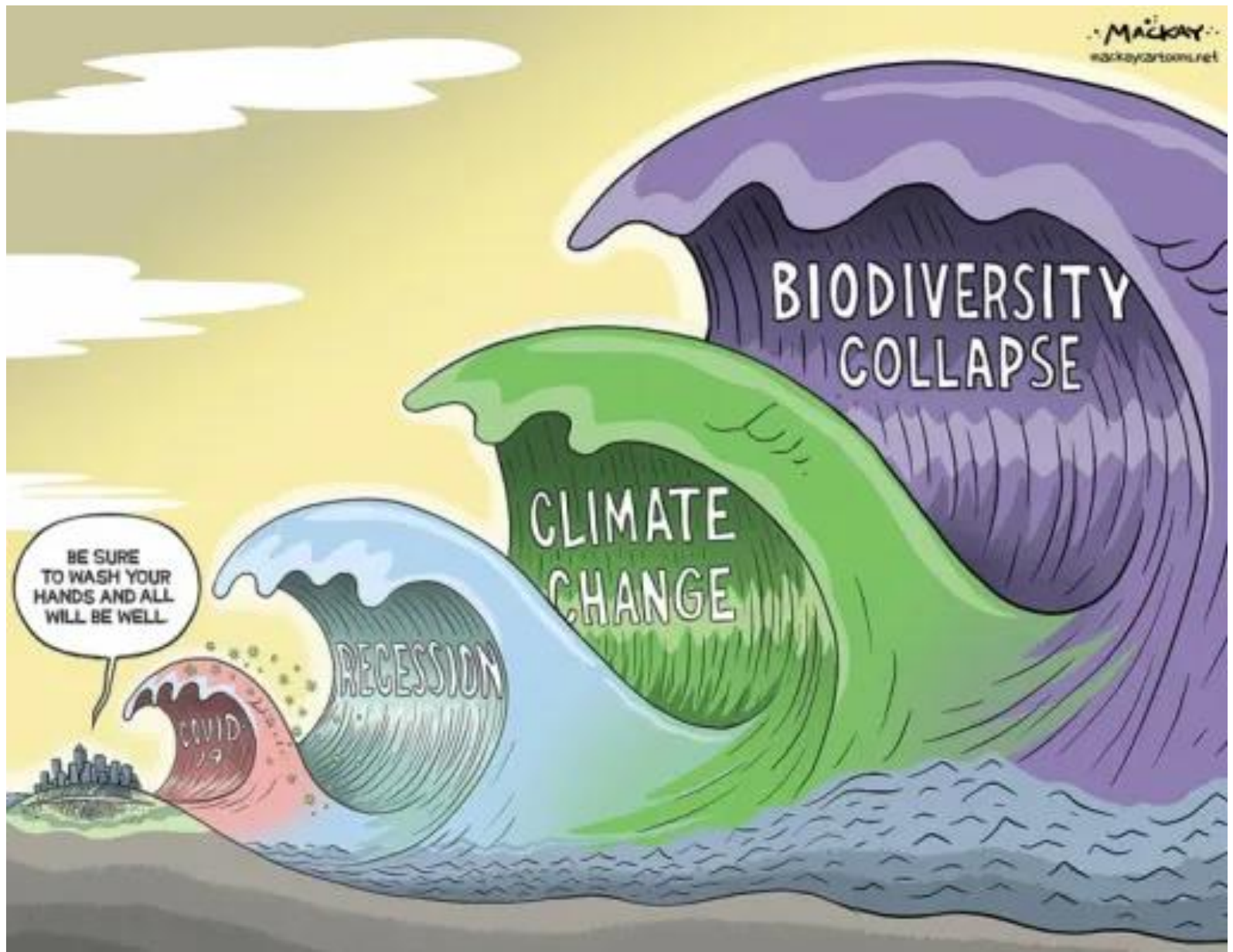
Maui



Pakistan



Multiple locations globally





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“We choose to go to the moon. We choose to go to the moon in this decade and do the other things, not because they are easy, but because they are hard, because that goal will serve to organise and measure the best of our energies and skills, because that challenge is one that we are willing to accept, one we are unwilling to postpone, and one which we intend to win.....”

President John F Kennedy,  
12<sup>th</sup> September 1962

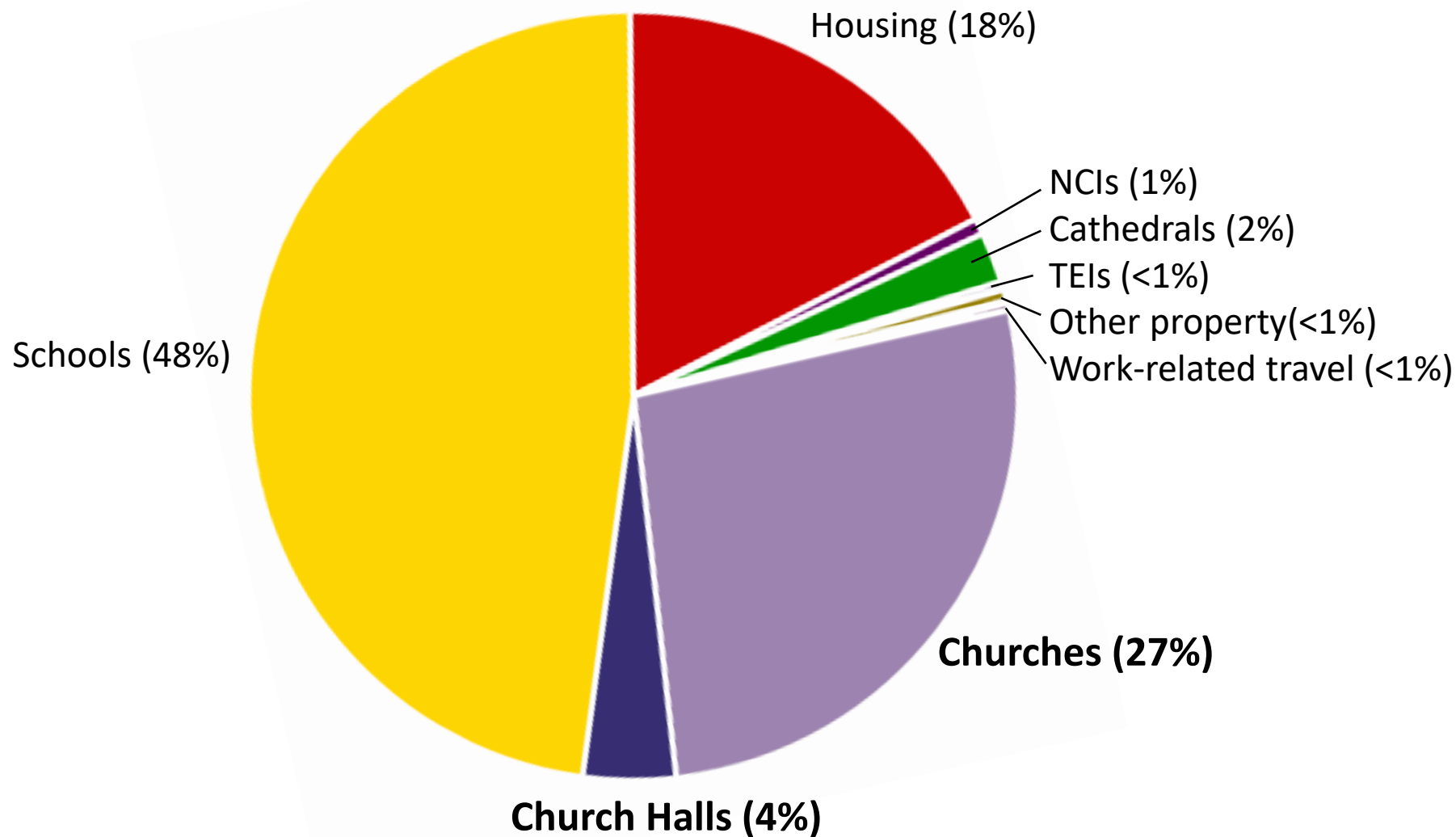


# Headline figures

- The church of England's carbon footprint in 2021 is estimated at 411,000 tonnes of CO<sub>2</sub> equivalent (CO<sub>2</sub>e)
- This is slightly lower than our estimated carbon footprint in 2020, which was 415,000 tonnes
- We cannot say whether any of the apparent increases or decreases from 2020's estimate are a result of any material change or simply a better estimate from a more complete sample

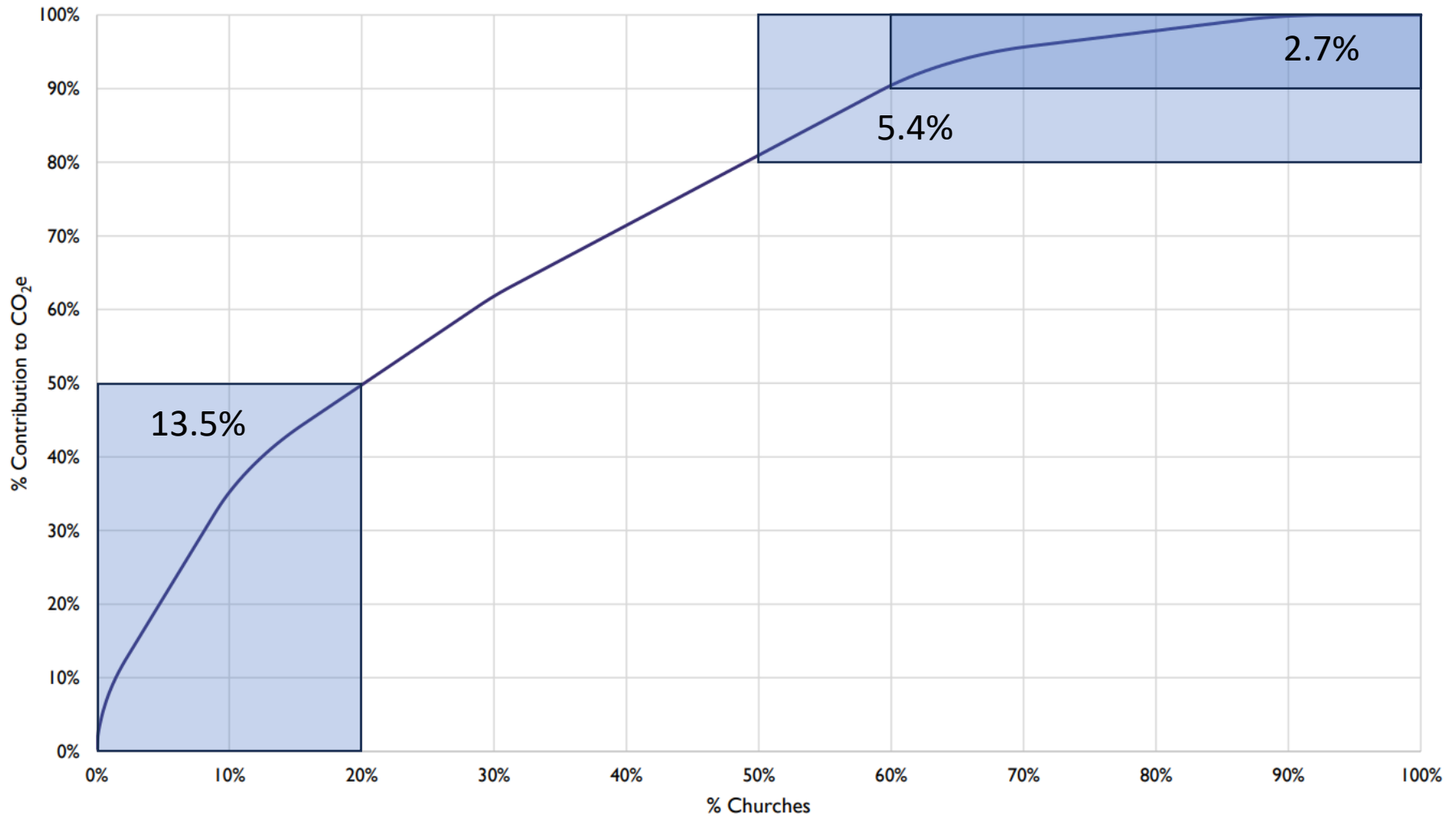
Building Type	Number of Buildings	Total Estimated Net CO <sub>2</sub> e (2020)	Total Estimated Net CO <sub>2</sub> e (2021)
<b>Churches</b>	<b>15,500</b>	<b>118,000</b>	<b>110,000</b>
<b>Church Halls</b>	<b>3,000</b>	<b>19,000</b>	<b>16,000</b>
Schools	4,000	195,000	196,000
Housing	9,500	69,000	72,000
NCIs	3	2,500	2,800
Cathedrals	42	9,500	8,700
TEIs	22	N/A	1,100
Royal Peculiars	8	700	340
Diocesan Offices	75	3,000	1,900
Other diocesan property	84	600	600
Work-related travel	n/a	Not collected	1,100
<b>Total</b>	<b>32,234</b>	<b>415,000</b>	<b>411,000</b>

# Where our emissions come from:





# Church Emissions Contributions:



# Church Commissioners' triennium funding £190m to Net Zero programme over 9 yrs

- One-off investment in the **transition towards a lower carbon future**
- Demonstrating **leadership** in responding to the **Climate Emergency**
- **Routemap to Net Zero 2030** identifies immediate priority investment areas
- Sharing **learning**, raising **additional funding**, working in **partnership**, and harnessing new **technologies**
- Net Zero goal is also supported by **Buildings for mission** funding



# As well as the main Routemap, there are tailored summaries for each main group



## Cathedrals

Milestones for cathedrals to achieve net zero carbon by 2030.

[Learn more >](#)



## Churches

Milestones for churches to achieve net zero carbon by 2030.

[Learn more >](#)



## Dioceses

Milestones for dioceses to achieve net zero carbon by 2030.

[Learn more >](#)



## Schools

Milestones for schools to achieve net zero carbon by 2030.

[Learn more >](#)

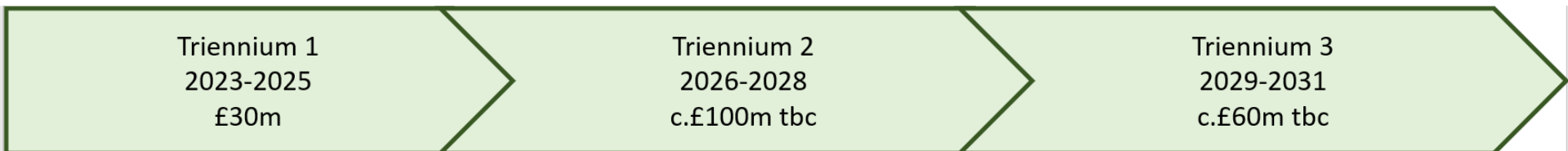


## Theological education institutions

Milestones for theological education institutions to achieve net zero carbon by 2030.

[Learn more >](#)

# The NZC triennium funding is c.£190m over 9 years, with £30m in 2023-2025. These are the priorities:



## 1. People

- Capacity building
- Hearts & minds

## 2. Preparation / learning

- Net Zero Carbon Action plans
- Demonstrator projects (stage 1 preparation, stage 2 capital works)
- Innovation / pilots
- Procurement

## 3. Quick wins

- Small energy-saving grants
- Electrical grid connection
- Stop-gap heating solutions
- Switching campaign
- Create and share resources

## 4. Fundraising and investment models

## 5. Strategic partnerships

## 6. Programme management

Evaluation

Continue those elements which are still needed

Capital programmes (packages of grant & lending)

Scale-up successful approaches

Evaluation

2029/2030

- Continue those elements still needed
- Capital programmes (packages of grant & lending)
- Develop measures for next phase of emissions, after 2030
- Develop approach to offsetting

2031

- Measure, evaluate, review and report

c.415,000 tCO<sub>2</sub>e pa of carbon emissions to be reduced to net zero over 8 years.

To achieve this will require the £190m to be used as leverage to source far more funding from other routes.

# Progress so far:

- **Every Diocese has benefited from the starter capacity building grants (£15k)**
- **29 Dioceses have applied successfully for larger capacity building grants (£127k average)**
- **5 collaborative bids from Dioceses wanting to work together on net Zero**



# Church Milestones

## By End 2023

- Consider **registering for Eco Church status** and aim for **Bronze** as a minimum.
- 10% registered; 5% Bronze
- Complete the **Energy Footprint Tool**



# Church Milestones

## By End 2024

**Switch to 100% green electricity tariff** at contract renewal, or

switch to a green gas tariff if no alternative,

## By End 2025

- **Ensure efficient lighting**
- **No new oil boilers installed**
- **Consider installing EV charging points.**



# Church Milestones

## By End 2026

- **Register for Eco Church status and aim for Silver.**
- 40% of churches in every diocese to be registered with Eco Church.
- 20% to have achieved Bronze
- 10% to have achieved Silver or better





# Church Milestones

## By End 2027

- Top 20% of churches by energy consumption to have written a **Net Zero Carbon Action Plan**

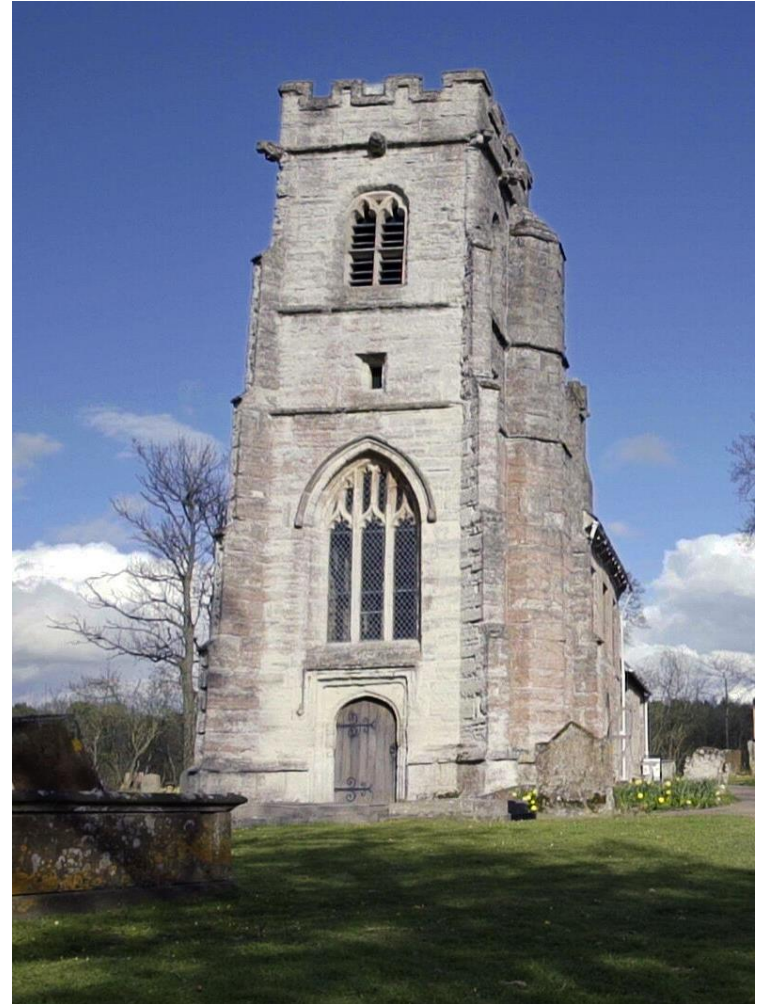
## By End 2030

- Complete all actions in your **Net Zero Carbon Action Plan**.



# Church Decarbonisation Workstream:

1. **Support through Parish Buying for Energy Audits**
2. **Demonstrator Churches Project**
3. **Quick Wins Fund**
4. **Pilot and Evaluation Fund**
5. **Parish Match Funding Campaign**



# Parish Buying support for Energy Audits:

- Aimed at the highest emitting churches
- Energy Footprint Tool returns will be a key criterion
- 600 fully funded Energy Audits for the highest emitters
- 1000 partially funded Audits
- Up to £3k match funding to help with implementation



# Demonstrator Churches Project:

- Support available for up to 70 churches.

## Two Strands:

- Stage 1: Preparatory Grants
- Stage 2: Capital Grants for up to 60 churches (up to 25% of project costs)
- DACs have put forward 40 churches so far.
- Aim is to have a Demonstrator Church 'near you'.



# Quick Wins Fund:

- Support fund to help parishes implement small scale net zero projects.
- Solutions in scope include:
- Energy efficient lighting
- Pew heating
- Insulation
- Electrical upgrades
- Stop gap heating solutions
- Scoped to support 1000 churches



# Pilot and Evaluation Fund :

- Support for 8-12 trials of new net zero technologies per year.
- Learn from successes and failures and share learnings.
- Emphasis is on brand new technology or existing NZ technology not used in a church before.
- The fund can also support the testing of existing legislative powers which help facilitate the wider adoption of net zero solutions.



# Parish Match Funding Campaign:

- **Delivered in partnership with the National Giving Team and the Give a Little platform.**
- **Pilot underway in Exeter, Truro and Leeds dioceses**
- **Pound for Pound match funding offer to boost local fundraising undertaken by parishes in support of net zero projects.**



# Cathedrals, Schools and Housing:

- **Funding allocated to do more detailed surveys and concept designs for Cathedrals.**
- **DBE Services developing a national framework for schools and supporting the development of funding bids.**
- **Retrofit surveys of 100 clergy houses of varying types have been undertaken with the support of Sheffield, Birmingham, Exeter, and Portsmouth dioceses and the Pensions Board**





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