



THE CHURCH
OF ENGLAND
BIRMINGHAM

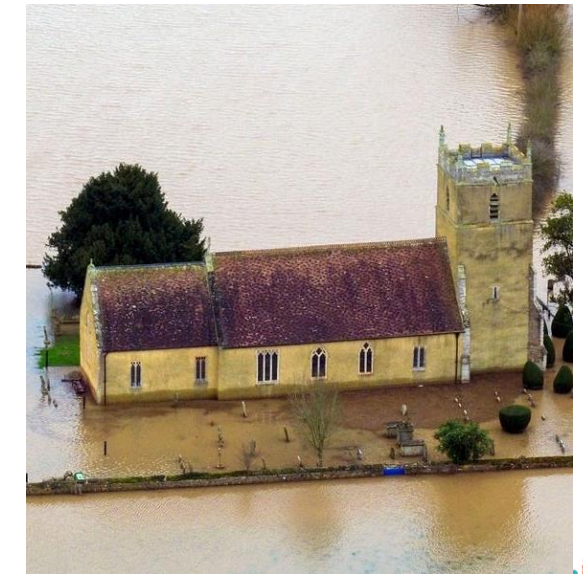
CofE Birmingham & Net Zero Carbon

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Care of Churches Officer



TRANSFORMING
CHURCH

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



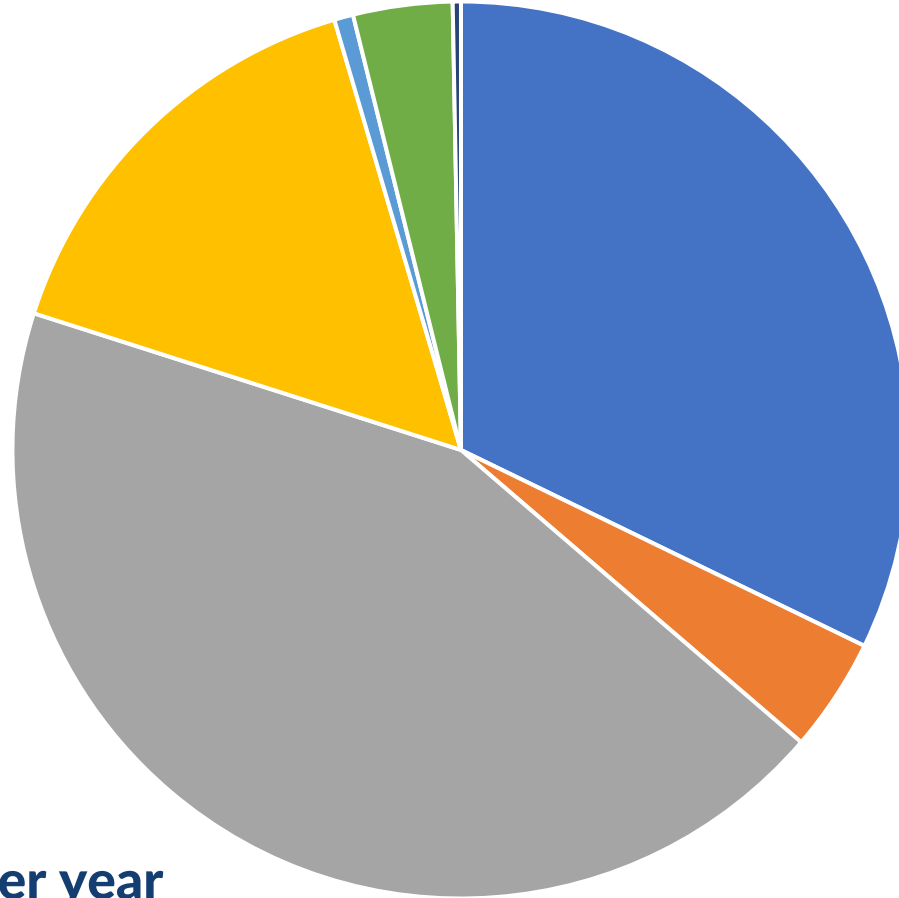
What is in scope for our diocese?

- 182 Churches
- 45 Schools
- Cathedral
- 150 Clergy Houses
- Diocesan Office
- Work-related Travel



CofE Birmingham sources of emissions

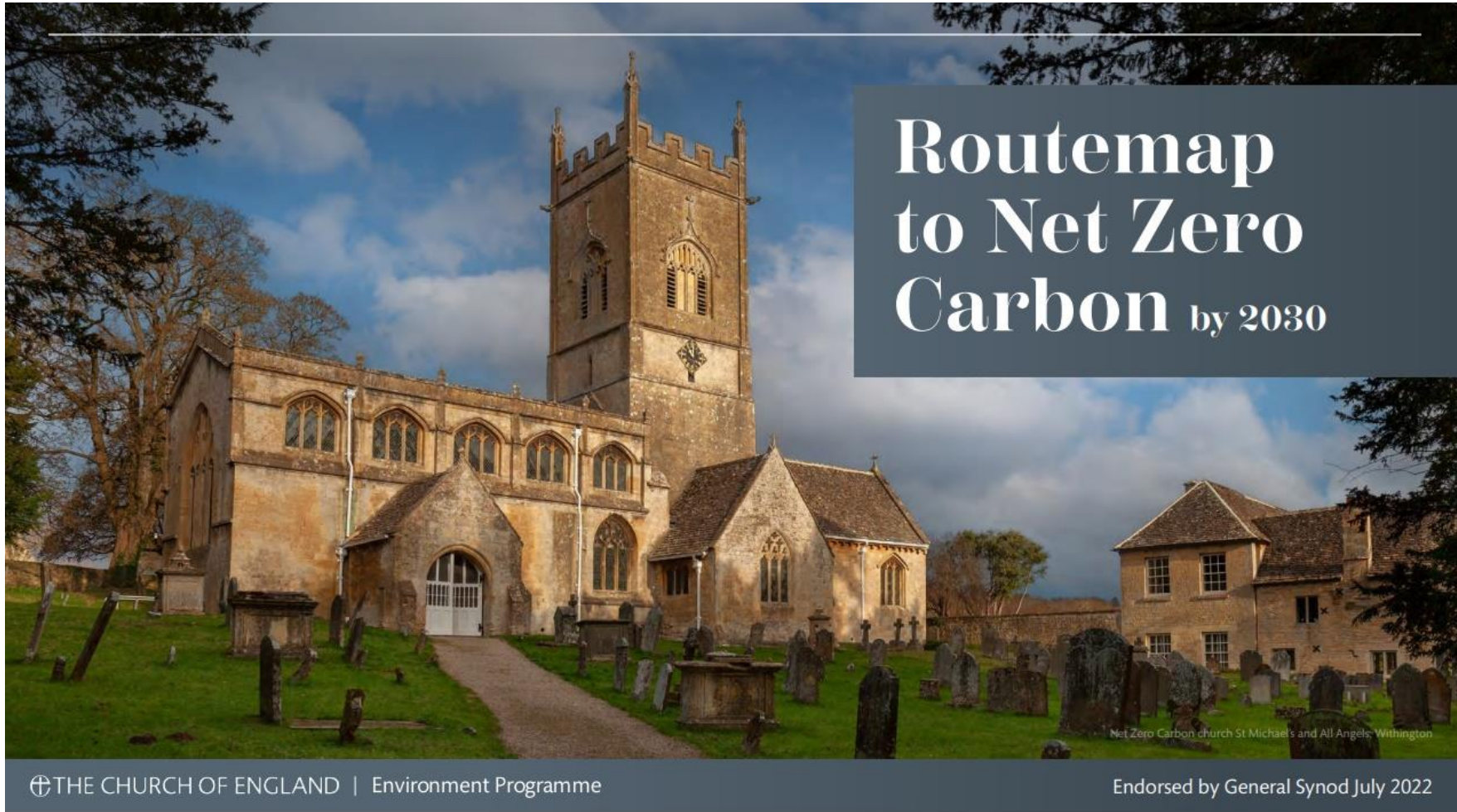
- Churches (32%)
- Church Halls (4%)
- Schools (44%)
- Housing (16%)
- Offices (>1%)
- Other Buildings (4%)
- Travel (>1%)



Total 7,500 CO2e tonnes per year

2021 data

CofE Routemap to Net Zero Carbon



Energy Footprint Tool

What is it?

Allows churches to find out your current 'carbon footprint'

Churches enter previous year's utility bill information

62% of CofE Birmingham churches submitted EFT returns in 2022



Energy Footprint Tool

Why use it?

Allows you to understand where you are starting from

Submitting annual returns allow you to see year-on-year progress

Allows diocese and national teams to understand the bigger picture and where extra support is needed



Energy Footprint Tool

How to use it?

Access through the CofE Online Parish Returns System

You will need your 2022 electricity and gas/oil bills to hand

Open until end of July 2023



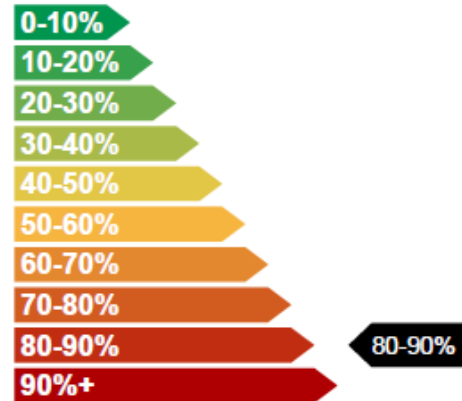
Energy Footprint Tool

Carbon Footprint

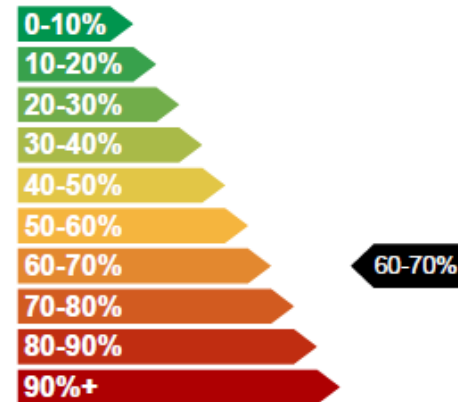
	This Year	Last Year
Gross CO ₂ emissions (Tonnes) ?	20.3	-
Net CO ₂ emissions (Tonnes) ?	12.5	-
Renewables and offsets: non-accredited (tonnes)	0.0	-

Weather Adjusted Energy Efficiency

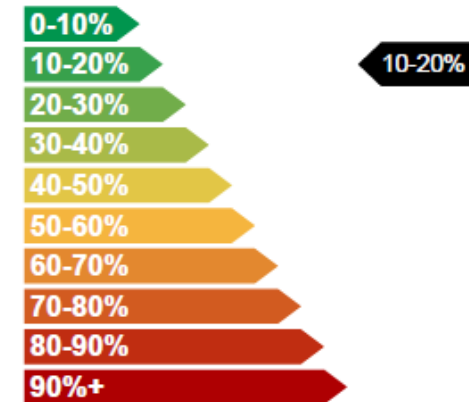
Net CO₂ Percentile



Emissions/sq metre adjusted percentile band



Church usage adjusted percentile band



What Next?

Start to plan actions to reduce carbon emissions for your church buildings

- *'Practical Path to Net Zero Carbon' document*
- *'Practical suggestions to help parishes save energy and money' document*
- *CofE 'Net Zero Carbon' webinar programme*

Practical Path to Net Zero Carbon

A tool to identify 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

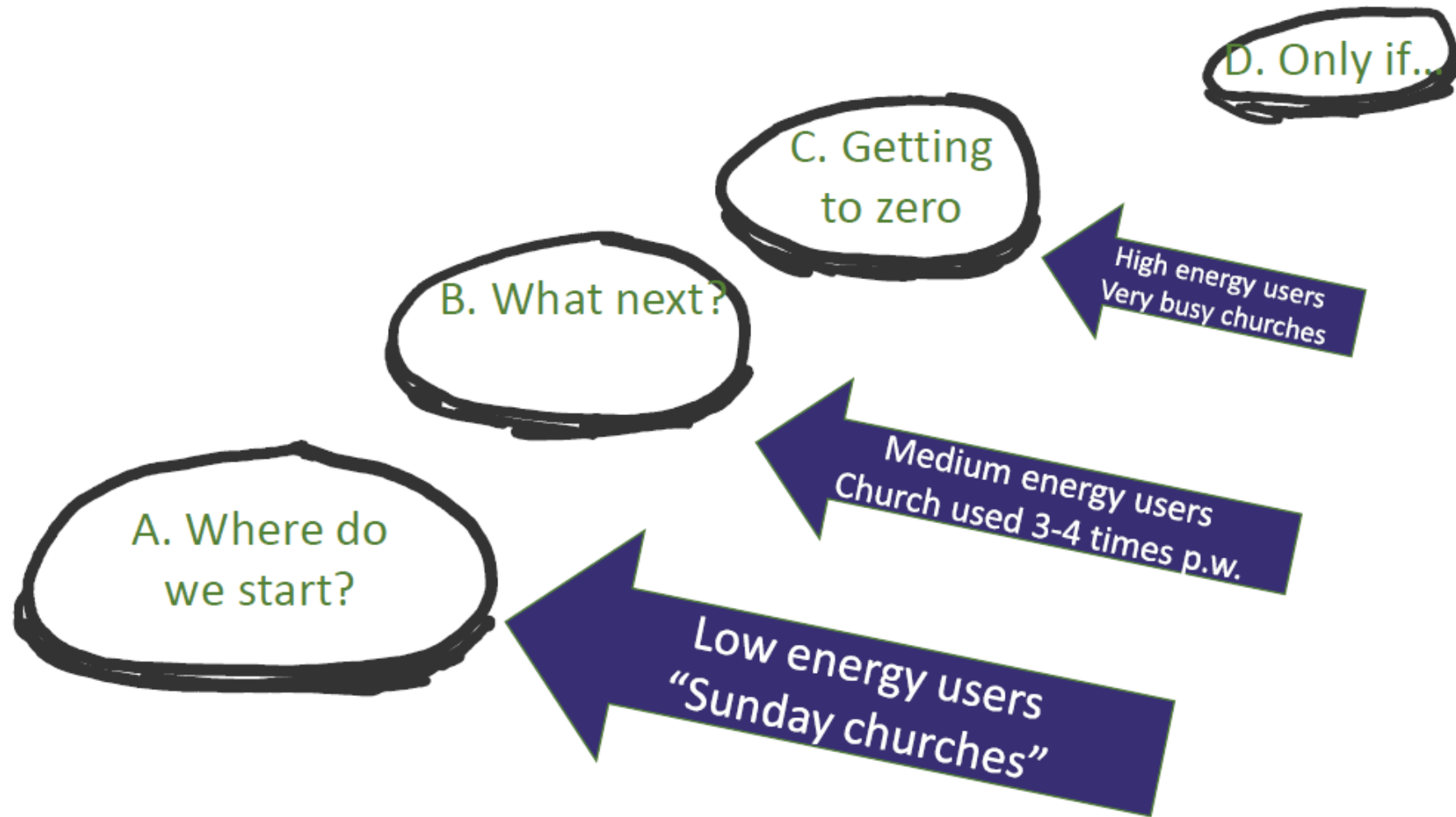
CHECKLIST

Part A - Where do we start?

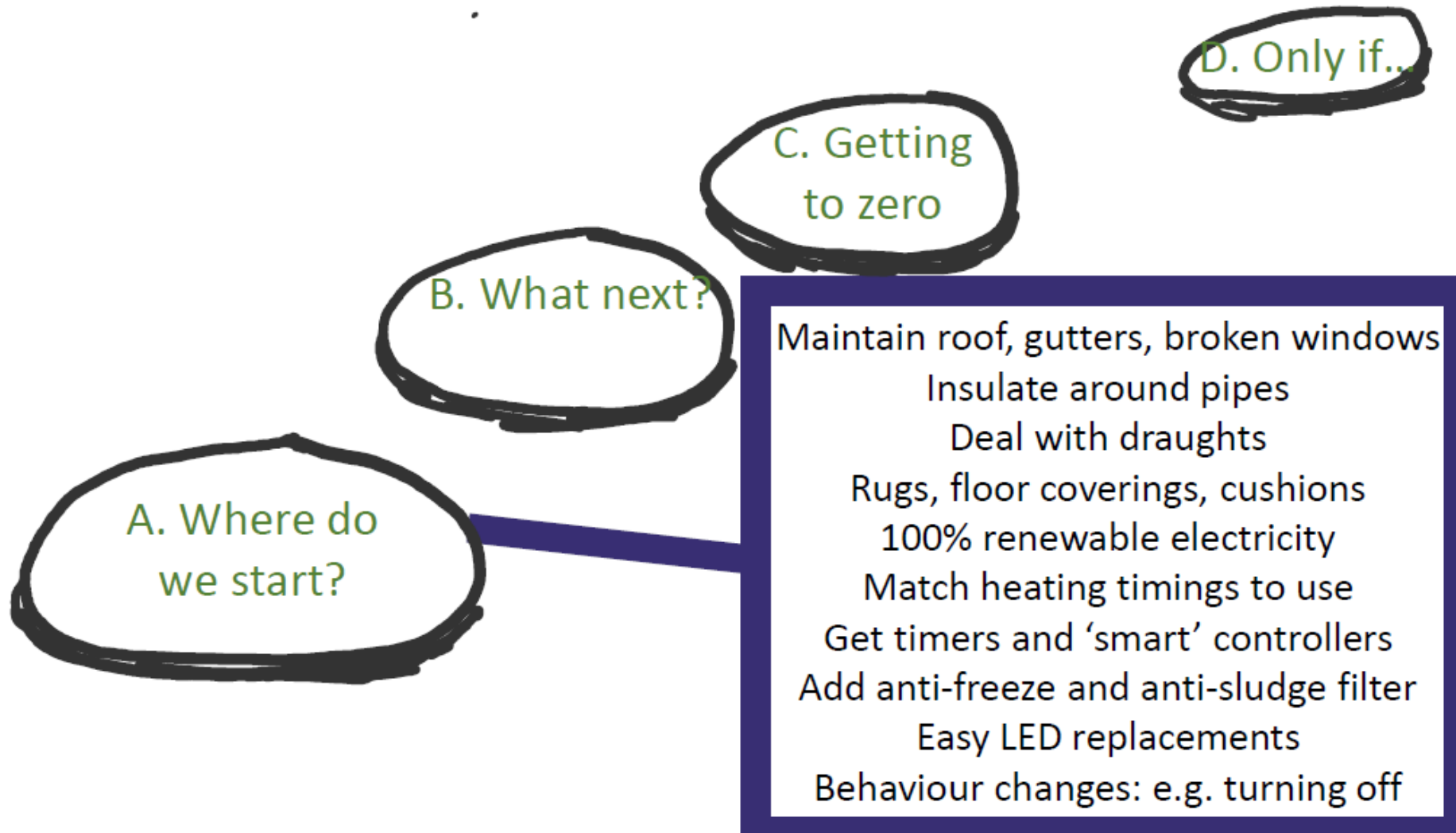
These are actions that nearly all churches can benefit from, even those primarily used only on a Sunday. They are relatively easy and are a good place for churches to start, when trying to move towards 'net zero'.

		Already done / up-to-date	Not applicable	Not a priority right now	Explore further / get advice	Priority
The building itself:						
A1.	Maintain the roof and gutters, to prevent damp entering the building and warm air escaping.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A2	Fix any broken window panes* and make sure opening windows shut tightly, to reduce heat loss.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A4	If draughts from doors are problematic, draught-proof the gaps or put up a door-curtain*.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A5	Consider using rugs/floor-coverings (with breathable backings) and cushions on/around the pews/chairs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Heating and lighting:						
A6	Switch to 100% renewable electricity (for example through Parish Buying's energy basket) and 'green' gas.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A7	Match heating settings better to usage, so you only run the heating when necessary*.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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*.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A9.	If you have radiators, add a glycol based 'anti-freeze' to your radiator system and review your frost setting.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A10.	Replace lightbulbs with LEDs, where simple replacement is possible.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A11.	Replace floodlights with new LED units.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A12.	If you have internet connection, install a HIVE- or NEST-type heating controller, to better control heating.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A13.	If your current appliances fail, then replace with A+++ appliances.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
People and policies:						
A14.	Complete the Energy Footprint Tool each year, as part of your Parish Return, and communicate the results.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A15.	Create an Energy Champion who monitors bills and encourages people to turn things off when not needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A16.	Write an energy efficiency procurement policy; commit to renewable electricity and A+++ rated appliances.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A17.	Consider moving PCC meetings elsewhere during cold months, rather than running the church heating.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

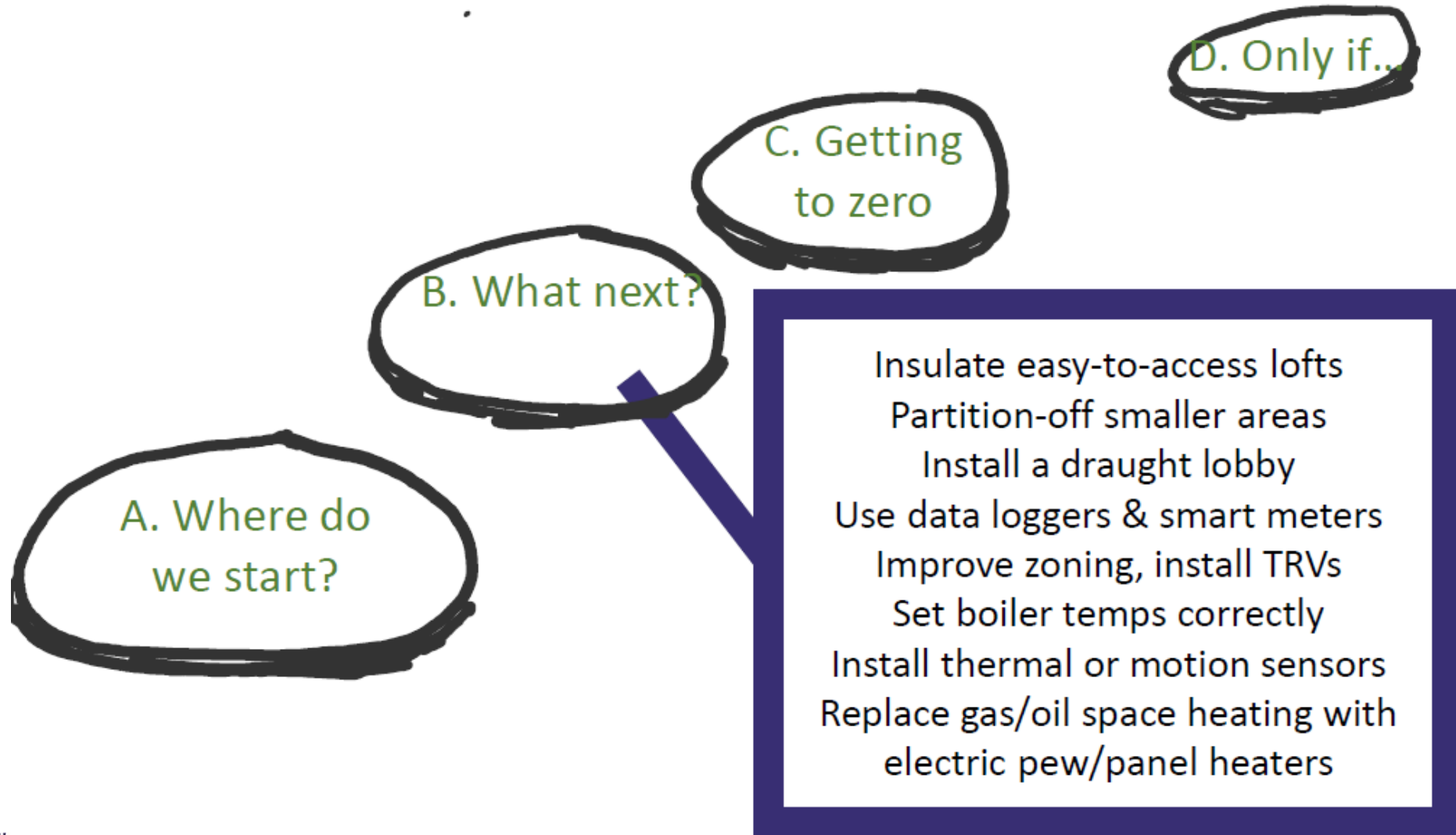
Practical Path to Net Zero Carbon



Practical Path to Net Zero Carbon



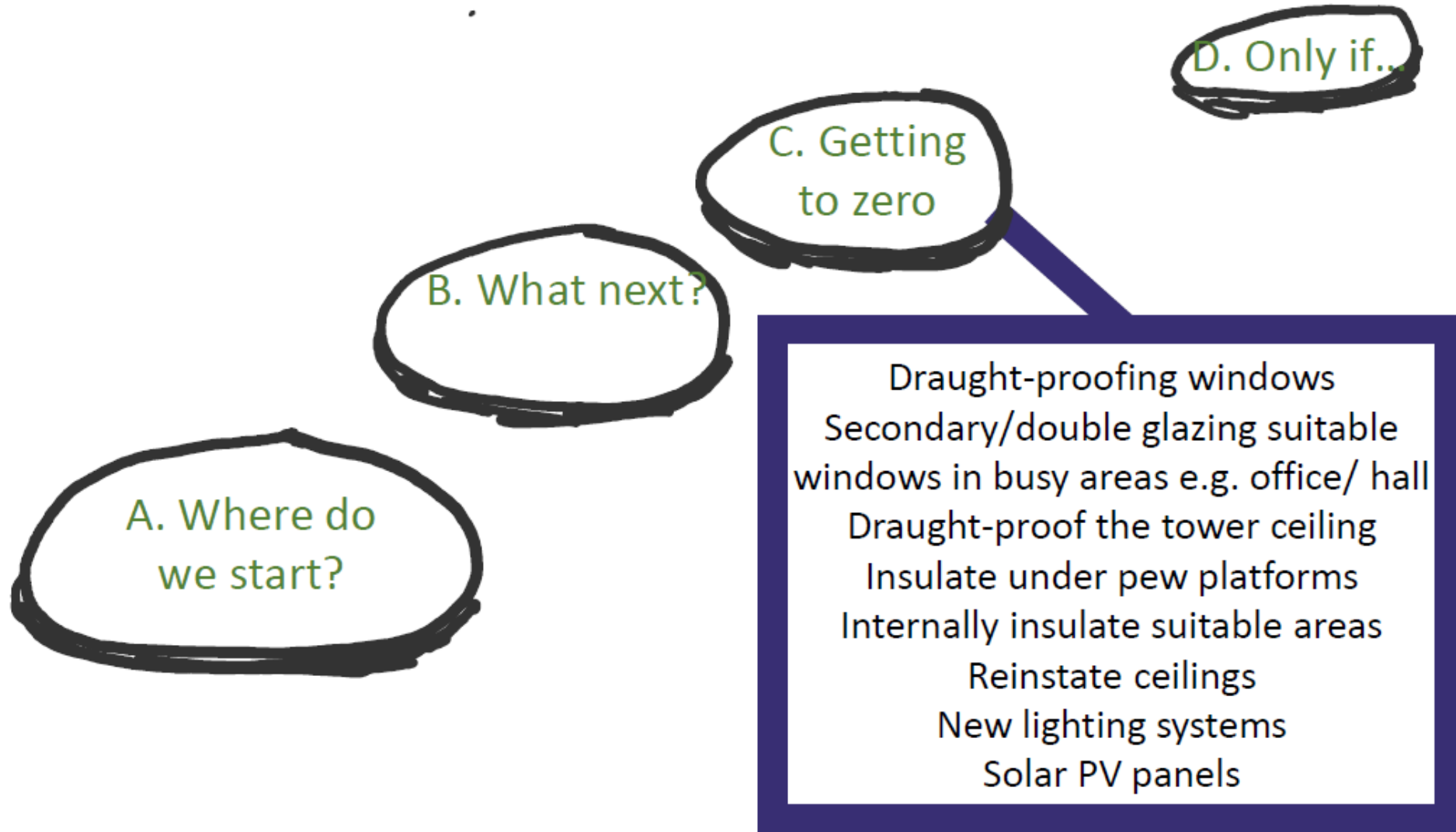
Practical Path to Net Zero Carbon



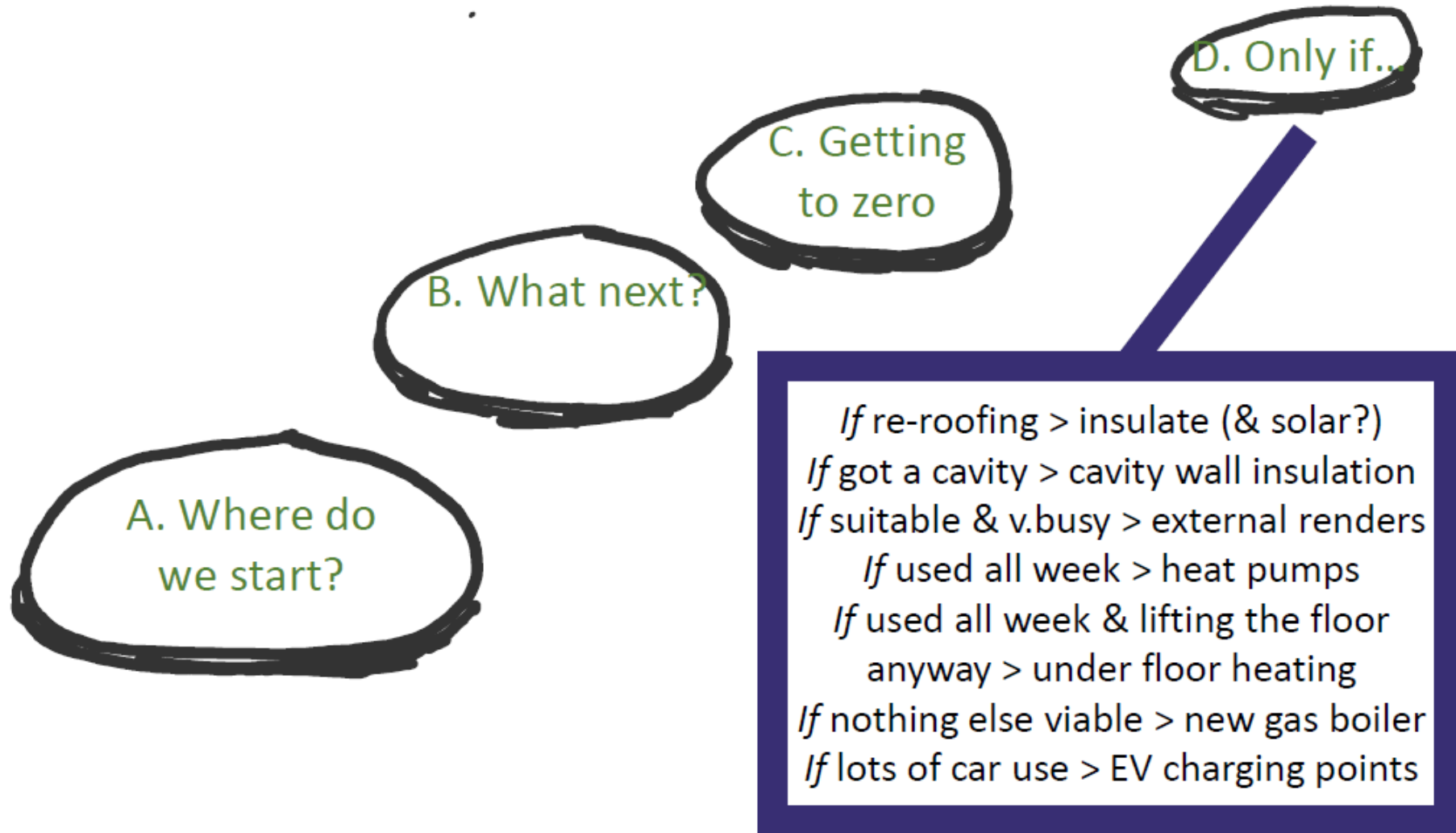
Practical Path to Net Zero Carbon



Practical Path to Net Zero Carbon



Practical Path to Net Zero Carbon



Practical Path to Net Zero Carbon

Further Links

- Online Parish Returns Tool to complete Energy Footprint Tool
 - <https://parishreturns.churchofengland.org/login>
- CofE Net Zero Carbon church webpage
 - <https://www.churchofengland.org/resources/churchcare/net-zero-carbon-church>
- Practical suggestions to help parishes save energy and money
 - <https://www.churchofengland.org/sites/default/files/2022-11/PO0518%20COFE%20PRACTICAL%20SUGGESTIONS%20DOCUMENT%20%28INTERACTIVE%29%20V2%202.pdf>
- Green Energy Companies and the Energy Footprint Tool
 - <https://www.churchofengland.org/sites/default/files/2023-01/Green%20Energy%20Companies%20and%20the%20Energy%20Footprint%20Tool%20Jan%202023.pdf>
- A practical path to “net zero carbon” for our churches
 - <https://www.churchofengland.org/sites/default/files/2021-01/the-practical-path-to-net-zero-carbon-numbered-Jan2020.pdf>
- A practical path to net zero carbon (A checklist for your church)
 - https://www.churchofengland.org/sites/default/files/2021-01/PP2NZC_SelfGuidedChecklist_print_version.pdf



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Thank you

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