

Working towards Carbon Net Zero 2030



Otley Parish
CHURCH



Photo by Vicky Parkinson

The Carbon Net Zero Challenge...

Church of England Objective

To achieve carbon net zero by 2030

Otley Parish Church - Grade 1 Listed

The oldest building in Otley

Carbon Net Zero Group

Seven church members

bringing a variety of skills together



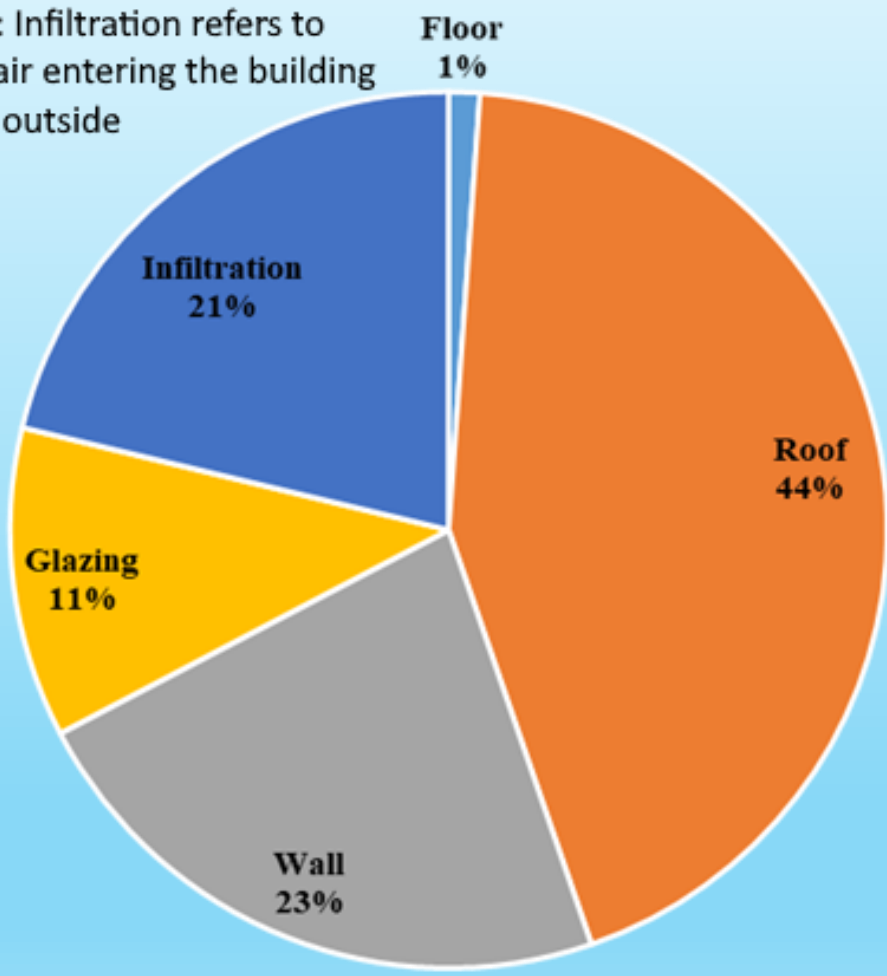
Progress to date...

- Expert **Energy Audit** done in 2022
- **Carbon Footprint** calculated
 - 44.33 tCO₂ in 2022
 - 28.96 tCO₂ in 2023
- “**Quick Wins**” identified and being actioned
- Completed a detailed **Roadmap to Carbon Net Zero**
which is approved by Church Parochial Church Council
- **Feasibility Study** underway into replacement
and insulation of the Church roof



Identifying where the heat is lost...

Note: Infiltration refers to cold air entering the building from outside



Where the heat is lost

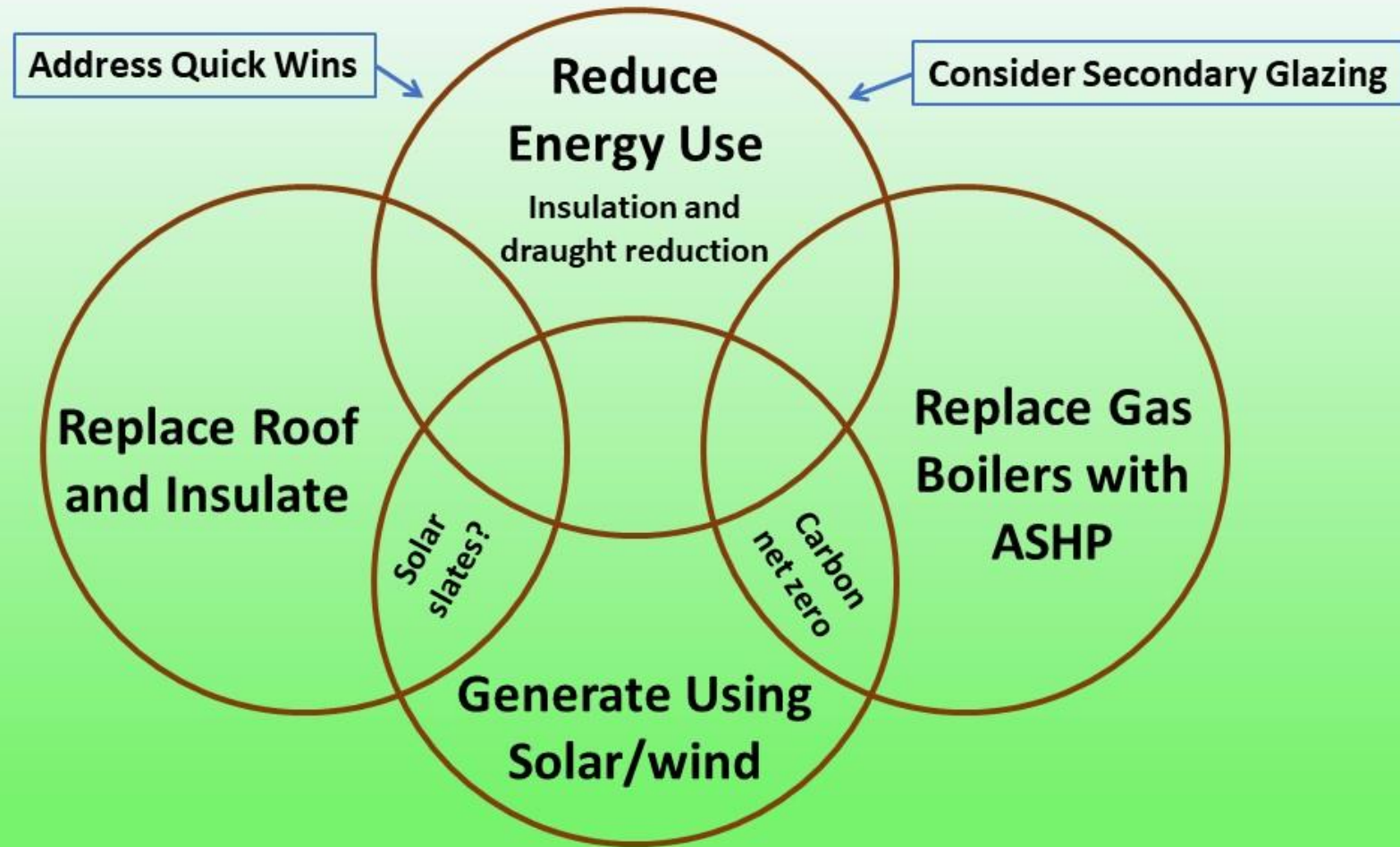


Inside the church
The dark colour of the roof and north-east corner show the coldest surfaces



Outside the church
The light colour of the north roof on a frosty day shows that it is warmer than the walls and a major source of heat loss

Steps towards Carbon Net Zero...



Throughout: Share vision and challenge with congregation; Engage with the local community

Prospective Timeline for the Route to Carbon Net Zero at Otley Parish Church

| Year: | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 |
|--|------|------|------|------|------|------|
| Continue to Implement Quick Wins | ■ | | | | | |
| Investigate Roof Insulation Opportunities | ■ | | | | | |
| Raise Funds | | ■ | ■ | ■ | ■ | |
| Replace Roof and Insulate | | | | | ■ | |
| Review Heating Requirements | | | | | ■ | |
| Install Air-source Heat Pump | | | | | | ■ |
| Investigate Approval for Solar Panels | ■ | | | | | |
| Install Solar Panels (subject to approval) | | | | | ■ | |

Facing us on the way ahead...

- **Big Challenges**

- Raising sufficient funds for full roof replacement
- Obtaining planning consent from both the Diocese and LCC for a Grade 1 listed building in the Conservation Area

- **Opportunities**

- Fit insulation as the roof is replaced
- Install solar panels on south aisle roof (subject to approval)
- Help Otley to achieve its Carbon Net Zero goals



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Any questions?

More details available at:

<https://otleyparishchurch.org/net-zero/>