

A wide-angle photograph of a rooftop solar panel installation. The panels are arranged in neat rows on a flat roof. To the left, a brick building with a series of tall, narrow, arched windows is visible. In the background, a city skyline with various buildings and a prominent stone building with three towers is seen under a cloudy sky. The overall scene is a mix of modern renewable energy and historic architecture.

# From Audit to Action

---

Making a Net Zero Plan

# Preliminary Steps

---

Our Dioceses have asked churches to engage in three initial steps to progress environmental sustainability:

1. Engage with the A Rocha UK Eco Church scheme and work towards your next award
2. Complete the Energy Footprint Tool (EFT) – 2024 is now open
3. Get an Energy Audit: PB; diocese scheme; your own



# Next Steps: Making a Net Zero Plan

---

**Step 1 : what actions do we need to take to get to Net Zero?**

This may be contained in:

- The audit report
- Your own work on the Practical Pathway to Net Zero



| Energy and decarbonisation actions   | Estimated Annual Energy Saving (kWh)  | Estimated Annual Cost Saving (£) | Estimated capital cost (£)              | Payback (years) | Permission needed | CO2 saving (tonnes of CO2e/yr) |
|--|---|----------------------------------|---|-----------------|-------------------|--------------------------------|
| Contact suppliers to arrange for the meters to be changed to smart meters                              | Helps monitor use and savings   | None                             | Nil                                     | N/A             | None              | N/A                            |
| Switch electricity suppliers to ones which provide 100% renewable supplies                             | None  | None                             | Nil                                     | N/A             | None              | -                              |
| Consider installing Electric Vehicle charging points   | 0   | N/A                              | £2,750                                  | 0.00            | List B            | -                              |
| Install PIR motion sensors on selected lighting circuits   | 79  | £19                              | £78                                     | 4.00            | List B            | 0.02                           |
| Change existing lighting for LED fittings  | 1,391   | £341                             | £3,718                                  | 10.91           | Consult DAC       | 0.31                           |
| Install a Solar PV array to roof of building   | 5,700   | £1,397                           | £16,500                                 | 11.82           | Faculty           | 1.28                           |
| Replace windows  | 2,141   | £134                             | £3,740                                  | 28.00           | Faculty           | 0.39                           |
| Install Battery Storage to PV system   | 1,900   | £466                             | £22,000                                 | 47.26           | Faculty           | 0.43                           |
| Inject cavity wall insulation into walls   | 1,142   | £71                              | £5,280                                  | 74.11           | Consult DAC       | 0.21                           |
| Add Elec Point of Use Hot water heaters  | 2,141   | £134                             | £4,400                                  | 32.94           | Consult DAC       | 0.39                           |
| Install an Air-to-Air Heat Pump to replace the existing heating system served from the Upstairs        | 2,235   | £23                              | £25,080                                 | N/A             | Faculty           | 0.44                           |
| Install an Air-to-Air Heat Pump to replace existing heating system served from the Church and Entrance | 2,395   | £24                              | £26,950                                 | N/A             | Faculty           | 0.47                           |
| Install an Air-to-Air Heat Pump to replace existing heating system served from the in Kitchen Boiler   | 2,635   | £27                              | £28,655                                 | N/A             | Faculty           | 0.52                           |
| Savings from gas standing charges once church achieves Net Zero and removes gas meter                  | N/A   | Unknown                          | Potential £400 charge for meter removal | N/A             | None              | Part of above                  |
| Consider registering for Eco Church  | The <a href="#">Eco Church</a> programme, which is recommended by the Church of England, helps congregations care for the environment in all aspects of church life. The programme is free; you can, however, donate to A Rocha UK towards its costs.   |                                  |   |                 |                   |                                |
| Create a procurement policy for appliances (and other goods)   | Commit to buying only appliances with the new energy efficiency ratings of A, B or C at the lowest when those you currently have reach the end of their useful life. (NB ovens, air conditioners and space or water heaters are still on the older rating scale, so for these, try for A+++.) |                                  |   |                 |                   |                                |

# Next Steps: Making a Net Zero Plan

---

## Step 2 : Turn the actions into an action plan

- What will take priority?
- What permissions will be needed?
- Who will be responsible?
- When will it happen?



# St Ingrid's Church Net Zero Plan

| Action                             | Cost | Saving per Year | Permissions                   | Responsibility               | Priority | Timescale (plan, funds, works)                  |
|------------------------------------|------|-----------------|-------------------------------|------------------------------|----------|---|
| Insulate roof space                | £3k  | £200            | List A                        | Wardens                      | 1        | Summer 2025                                     |
| Exclude draughts                   | £1k  | £100            | List A                        | Operations Manager           | 2        | Summer 2025                                     |
| Change lights to LED               | £10k | £400            | List B / faculty              | Wardens and Treasurer        | 3        | Plan and fund 2025<br>Works 2026                |
| Install solar panels               | £20k | £2.5k           | Faculty / planning permission | Wardens and Vicar            | 4        | Plan/fund '25 Work 2026/7                       |
| Replace gas boiler with heat pumps | £40k | n/a             | Faculty                       | Wardens and Fabric Committee | 5        | Plan by 2027<br>Fundraise 2028<br>Works 2029/30 |

# Some Considerations

---

- Being on a genuinely green/renewable tariff for your utilities should be a key part of your plan;
- The plan should have PCC approval;
- If you have a plan, please share it with us;
- Don't at this stage worry about funding;
- If we are aiming for 2030 we should start now and depending on urgency. Put dates against the items so you know when you expect to tick them off. Larger items will take time to plan, seek permissions, fundraise and do the work. And be aware of which items will be best in reducing your emissions; heating is usually responsible for the largest share.

# Next Steps: Making a Net Zero Plan

---

## Step 3 : refine and report on your plan

- Regularly update your PCC
- Update the plan annually as we approach 2030
- Celebrate achievements
- Monitor
- Share your learning

