



DAC Environmental Policy Webinar

24th March 2020

Agenda

- The need for a policy
 - National Level
 - Diocese Level
- Policy and Guidance Note Content
- Support and Further Information
- Electrical Heating in Practice
- Q&A

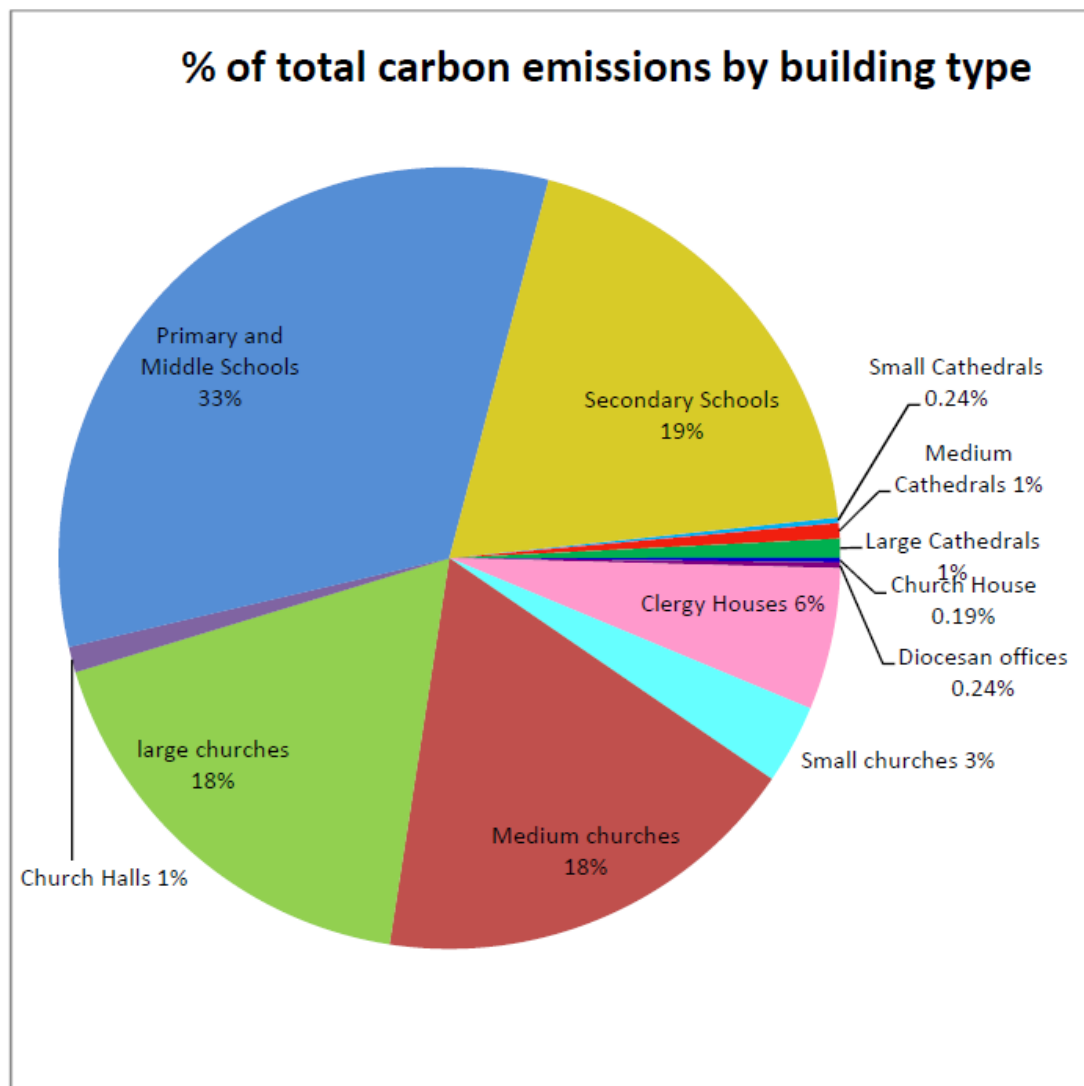
Please mute your microphones during presentation!

Life

The Need for a Policy

- General Synod Motion passed in February 2020 calling for Church of England to be Net Zero by 2030.
- Diocese of Gloucester updated Environmental Policy (before General Synod) to have at least 80% reduction in GHGs by 2030 and to be carbon neutral by 2030.

Churches (and their halls) make up 40% of CofE's emissions



Background to Policy

- Based on 52 Energy Audits undertaken in the Diocese and hundreds of subsequent visits
- DAC only advises the Chancellor who is the final decision maker (but be mindful of recent 3rd Runway Court ruling)
- Policy is designed to offer advice and guidance as well as setting out clarity on what advice will be given to the Chancellor from the DAC.



Energy Tariffs and Billing

- General encouragement to all churches to be adopting a 'green' tariff.
- Parishes wishing to undertake modifications, replacements or upgrades to any gas or electrical systems will need to demonstrate that they are purchasing from a renewable or green electricity or gas supplier.
- Call to all parishes to check that they are paying only 5% VAT and not be charged CCL

Heating

- Heat makes up by far the largest proportion of a church's energy use (often 85% +)
- The 2012 study showed over 70% of churches heated using fossil fuels (oil – 24% and gas 47%) which do not fit in a zero carbon future.
- Advice to check timings, temperatures and avoid background heating
- Replacement of oil boiler will no longer be allowed. Churches generally encouraged to consider electric heating options.



Lighting

- Advice on using motion sensors and reducing timing of external flood lighting
- All churches and halls encouraged to convert to low energy / LED lighting by 2025
- Proposals for additional flood lighting must demonstrate that they will not increase the churches energy consumption.

Insulation and Draught Proofing

- Advice to have pipework in boiler rooms insulated
- Advice to churches to consider draught proofing measures especially around doors
- Any proposals for re-roofing should include insulation within them or provide a compelling justification as to why this is not possible.
- Also consider underneath pew platforms!

Renewables

- Generally encouraging of renewable energy generation (examples of major PV, Biomass and Heat Pumps in Diocese dating back 10 years)
- Churches should show that they have address all energy efficiency measures BEFORE installing renewables (through a recent energy audit)



Churchyards and Outside Areas

- Promotes use of Diocese grants (£250) for wildlife gardens
- Any proposal to remove or significantly reduce size of trees must be accompanied by proposals to plant at least two new trees elsewhere on church land.
- Any car parking proposals must show that it will not generate surface run off and include an EV charging point and/or bike rack



Major Development and Reordering

- Advice on designing to avoid single use and purchase A+ or better rated appliances.
- Statements of Need must include details of how the proposals will have a positive impact on the environment
- All timber used must be FSC certified.



Support and Further Information

- Support available through DAC dac@glosdioc.org.uk
- A Rocha UK <https://arocha.org.uk> has lots of advice and is also the key resource for EcoChurch.
- Church of England – Church Buildings Council - <https://www.churchofengland.org/environment>

Electrical Heating in Practice

St Andrews Chedworth converted from oil to electric heating in Autumn 2018.

- Underpew Heaters
- Overhead heaters to tower and choir vestry
- Panel Heaters to non-pew areas (font, chancel step etc.)

Only turn on around 30mins prior to a service and leave off at all other times.

Underpew Heaters



<http://www.bnthermic.co.uk/products/convection-heaters/ph/>

Overhead Heating



Herschel Pulsar -
<https://www.herschel-infrared.co.uk/product/pulsar/>

Overhead Heating

<https://www.warm4less.com/p/2400-watts-alpha-bar-heater/>



Panel Heaters



<https://www.warm4less.com/p/700-watt-platinum-white/>



Question and Answers



gloucester.anglican.org