Net Zero
Webinar for
CofE Schools
June 2021



"The costs of adapting are less than the cost of doing business as usual. And the benefits many times larger," - Ban Ki-moon, 8th Secretary-General of the United Nations.



# The climate is changing, and the UK needs to act

- General climate change trends projected over UK land for the 21st century show an increased chance of warmer, wetter winters and hotter, drier summers along with an increase in the frequency and intensity of extremes. We need to prepare our school buildings for this.
- We believe that responding to climate change is an essential part of our responsibility to safeguard God's creation.
- Research tells us that 9/10 young people are concerned about the climate crisis.





## **Net Zero**





The final motion approved was a call upon all parts of the Church of England, including **education institutions**, dioceses, cathedrals, etc, to work to achieve year-on-year reductions in emissions and urgently examine what would be required to reach net zero emissions by 2030 in order that a plan of action can be drawn up to achieve that target (emphasis added)



### **Net Zero**

- The term net zero means achieving a balance between the carbon emitted into the atmosphere, and the carbon removed from it. This balance – or net zero – will happen when the amount of carbon we add to the atmosphere is no more than the amount removed.
- Carbon dioxide is emitted when fossil fuels are burned to meet our demand for energy. Although it isn't the only greenhouse gas, carbon dioxide is the most significant. As such, the term 'carbon emissions' is often used to talk about all greenhouse gas emissions.



### What is in scope for 2030?

- Energy use of our buildings; schools are encouraged to seek low cost solutions such as insulation, draught proofing, glazing, LED lighting
- Work-related transport including schools trips
- Schools and responsible bodies (those that hold capital funding) are being asked to think strategically about replacing systems with more energy efficient solutions
- Another consideration could be to look at installing EV charging points for staff and pool cars
- Schools could actively be looking at installing renewable energy systems as part of their strategic plan
- <u>Phase 2 Public Sector Decarbonisation Scheme | Salix Finance</u>





# Additional considerations not in scope for 2030

- Emissions from buildings projects
- Procurement of items
- Waste disposal
- Carbon generated from the use of emails and the internet in work-based contexts.
- Air conditioning gases





#### **Diocesan Environment Officers**

- <u>Diocesan Environmental Officers map</u> <u>The Church of England</u>
- Diocesan Environment Working Group
- National Environment Working Group
- Peers for the Planet
- Encourage young people to participate in your diocesan Environment Working Group





#### **ACTIVITIES**

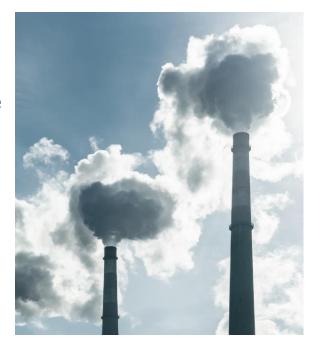
- <u>Get your voice heard: write a letter for creation | The Church of England</u>
- https://www.christianaid.org.uk/schools/globalneighbours/about-accreditation-scheme
- https://www.eco-schools.org.uk/get-involved/
- Climate Change Educational Partnership | STEM
- Learning | Kew
- https://www.caringforgodsacre.org.uk/resources/educa tion-pack/
- https://www.dioceseofnorwich.org/app/uploads/2021/0 5/Eco-School-Booklet-2021-v5.pdf
- https://twitter.com/DioceseNorwich/status/1402966372 859121667
- The Queen's Green Canopy (coolearth.org)
- Free Trees for Schools and Communities Woodland Trust





#### **COP 26 & G7**

- ➤ An opportunity to build on the national momentum and inspire change in your own context and community
- reschools should feel connected and involved with the national moment presented by the COP & G7 being hosted by the UK, and maximise educational and activation potential for children and young people, and leave a legacy of local climate action
- ➤Truro Diocese hosted Sing2G7 with the cathedral choir
- ➤ The Young Christian Climate Network are holding a relay for COP 26 see RELAY | YCCN
- > Make a declaration with Let's Go Zero





### **Good Estate Management**

- Good estate management for schools -Guidance - GOV.UK (www.gov.uk)
- ➤ Create a strategy and vision
- ➤ Utilise the energy toolkits
- ➤Install and use the data from <u>smart</u> meters
- ➤ School Switch & https://www.2buy2.com/ offer schools the choice to request a 100% renewable energy contract from suppliers.





### **National Young Leader Group**

- ➤ Engaging young people in every diocese at Primary/Secondary/FE
- ➤ It is about creating the right opportunities for young people to actively contribute to the discussion
- To create meaningful participation for young people
- To establish equitable spaces to develop leadership in young people





"Reducing the causes of climate change is essential to the life of faith. It is a way to love our neighbour and to steward the gift of creation." Archbishop Justin Welby



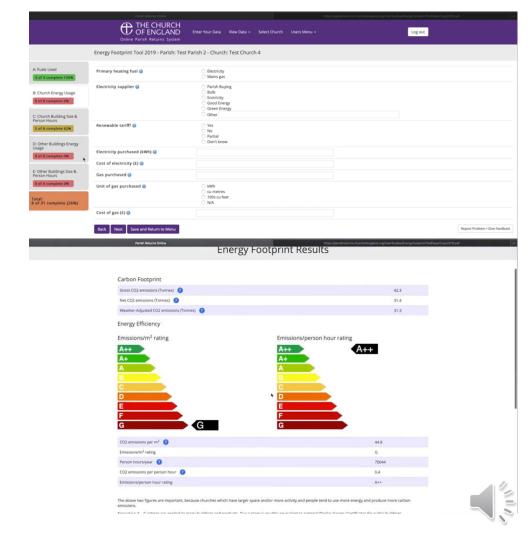
# Schools Energy Footprint Tool

Tom Wood – Statistical Researcher



# Church Energy Footprint Tool (EFT)

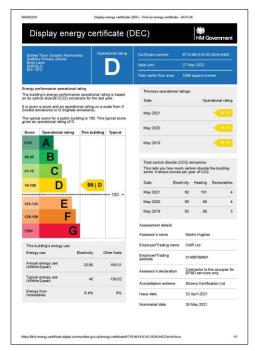
- Allows churches to calculate their CO<sub>2</sub> emissions from their energy bills
- Gives results as gross and net CO<sub>2</sub> emissions, as well as a weather adjusted figure that allows for comparison between different years
- Produces energy efficiency ratings for both the size and the number of people using the building

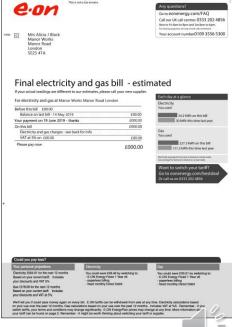


### Schools EFT

### Will accept data from

- The School's Display Energy Certificate (DEC) – retrieved from <a href="https://find-energy-certificate.digital.communities.gov.uk/find-a-non-domestic-certificate/search-by-postcode">https://find-energy-certificate.digital.communities.gov.uk/find-a-non-domestic-certificate/search-by-postcode</a>
- The School's energy bills





## Schools EFT - inputs

The data you will need to enter:

- Electricity/gas/oil/other fuel used
- The school building's total useable floor area
- Details of any on-site electricity generation or alternative heating technologies (e.g. heat pumps, solar panels)
- Other information about the school (e.g. pupil numbers) prepopulated from Government records



## Schools EFT - outputs

- Gross and net CO<sub>2</sub> emissions
- Weather adjusted emissions
- Emissions per a square meter
- Emissions per pupil



### Travel

- Additional tools that will help quantify emissions from schools' travel
- Will cover a range of forms of travel including:
  - Coaches
  - Ferries
  - Aviation
  - Work related car travel



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#### **KEY CONTACTS**

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Please share any good news, good practice and helpful tips at the end of the presentation or kindly email via the addresses provided above. Thank you for listening.

