

Energy Footprint Results

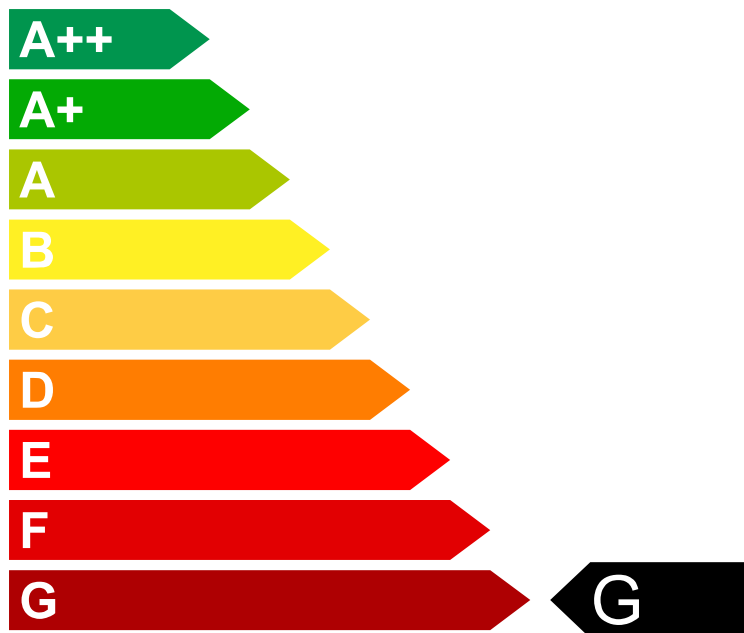
Carbon Footprint

	This Year	Last Year
Gross CO2 emissions (Tonnes) ?	15.9	-
Net CO2 emissions (Tonnes) ?	24.1	-
Reported Offset (Tonnes) ?	0.0	-

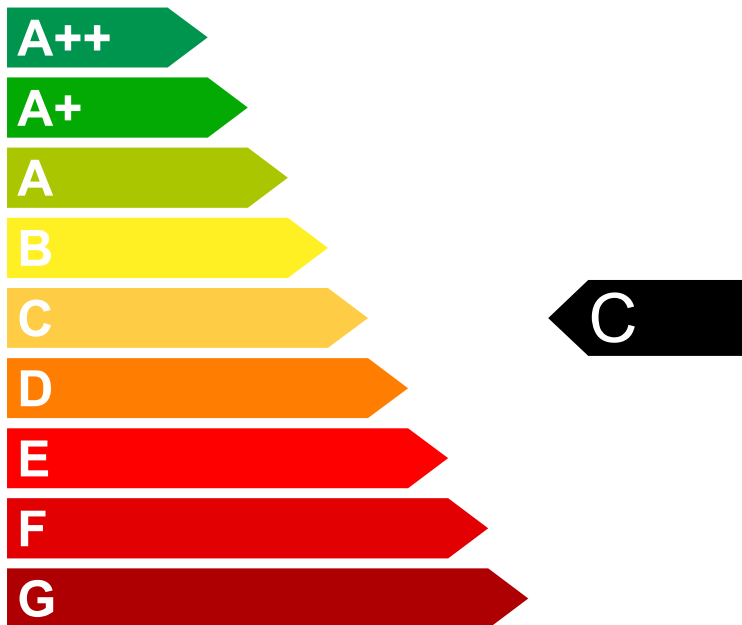
Lockdown Adjusted Energy Efficiency

The figures below have been adjusted for the periods of lockdown in 2020 to allow for a sensible comparison to data from previous years

Emissions/m² rating



Emissions/person hour rating



	This Year	Last Year
CO2 emissions per m ² ?	59.8	-
Emissions/m ² rating	G	
Person hours/year ?	28236	-
CO2 emissions per person hour ?	1.4	-
Emissions/person hour rating	C	-

The above two figures are important, because churches which have larger space and/or more activity and people tend to use more energy and produce more carbon emissions.

Nowadays A - G ratings are applied to many buildings and products. Our system is roughly equivalent to national Display Energy Certificates for public buildings.

Bands are awarded as good as A++, or B, C or D, all the way down to G which is the poorest rating.

You may find you get very different ratings for CO2e and for person-hours. Many churches use little energy compared to their size because they may not be hosting many activities. Others are squeezing large crowds into small spaces, using as little as possible, compared to the number of people. A high grade on either measure is to be welcomed, though any lower grade on either measure may suggest productive opportunities for improvement.

[Submit Data](#)

What's next?

- Now you know your footprint, consider how to reduce it, whilst still thriving as a church. Find our Practical Path to Net Zero Carbon for Churches (<https://www.churchofengland.org/resources/churchcare/advice-and-guidance-church->

buildings/practical-path-net-zero-carbon-churches), including a checklist you can download and use.

- Interested in solar, heat pumps, insulation, and other low carbon actions you can take? See our net zero carbon guidance (<https://www.churchofengland.org/resources/churchcare/net-zero-carbon-church>) and our free webinar programme (<https://www.churchofengland.org/about/policy-and-thinking/our-views/environment-and-climate-change/webinars-getting-net-zero-carbon>).
- For lots of wider environmental guidance, inspiring case studies, and more, see our environment programme webpages (<https://www.churchofengland.org/about/policy-and-thinking/our-views/environment-and-climate-change/webinars-getting-net-zero-carbon>).
- Need advice on funding? See Parish Resources (<https://www.parishresources.org.uk/resources-for-treasurers/funding/>) guide and Community Energy England's (<https://communityenergyengland.org/pages/funding-opportunities-2>) funding list.
- Find local support from your Diocesan Environmental Officer (<https://www.churchofengland.org/more/policy-and-thinking/our-views/environment-and-climate-change/deo-map>) and your Diocesan Advisory Committee (<https://www.churchofengland.org/resources/churchcare/church-buildings-council/how-we-manage-our-buildings/diocesan-advisory>) (many have heating and/or sustainability advisors).
- If you aren't already on a 'green' tariff, this is the place to start. One option is to switch to 100% UK renewable electricity with Parish Buying's Green Energy Basket (<https://www.parishbuying.org.uk/categories/energy/energy-basket>). Parish Buying also offer energy audits (<https://www.parishbuying.org.uk/categories/energy/energy-basket/audit>), LED lighting (<https://www.parishbuying.org.uk/categories/led-lighting>), and building maintenance (<https://www.parishbuying.org.uk/categories/buildings-maintenance>).
- To go further and calculate the carbon footprint of your travel, food, and purchases, explore the 360°Carbon footprinting tool (<https://360carbon.org/>).
- Want to offset your remaining net carbon footprint? There are lots of options out there. One worth exploring is Climate Stewards (<https://www.climatestewards.org/>), a Christian offsetting charity.
- Are you signed up to Eco Church (<https://ecochurch.arocha.org.uk/>)? This useful framework can help you build the environment into all parts of the life of your church
- In 2021, are you holding a Climate Sunday service (<https://www.climatesunday.org/>)? Be part of a strong faith voice between now and the international Climate Conference.

Feedback

Please help us to improve the tool by taking a moment to answer some questions. The questions will take no longer than 3 minutes and we would be most grateful for your opinions.

[Give Feedback \(/index.php/enter-data?task=fm2x&qrid=8001430018190505&return=/enter-data\)](/index.php/enter-data?task=fm2x&qrid=8001430018190505&return=/enter-data)

Your Church Data

Show / Hide

Primary heating fuel	Mains gas
Electricity supplier	Parish Buying
Renewable tariff?	Don't know
Electricity purchased (kWh)	28240
Cost of electricity (£)	4185

Gas Supplier	
Renewable Tariff?	Don't know
Gas purchased	37500
Unit of gas purchased	kWh
Cost of gas (£)	1600
Building footprint (sq metres)	350
Net useable floor area (sq metres) - if known	350
Usual Sunday attendance (persons)	302
Average Sunday time (hours)	1.5
Weekday services attendance (persons)	0
Hours per week	0.5
Other weekday footfall (persons/day)	0
Typical weekday time (hours)	0

Other Buildings Data

Show / Hide

Primary heating fuel	Electricity
Electricity supplier	Church Energy Purchasing
Renewable tariff?	Don't know
Electricity purchased (kWh)	28240
Cost of electricity (£)	4185
Building footprint (sq metres)	300
Net useable floor area (sq metres) - if known	300
Other weekday footfall (persons/day)	60
Typical weekday time (hours)	1.5

Other Calculated Values

Show / Hide

Is your church's electricity tariff 100% renewable?	False
Electricity - energy usage (KWh)	28240
Electricity - energy usage (KWh) weather adjusted	28253
Tonnes of CO2 emissions from electricity	8.1
Weather adjusted tonnes of CO2 emissions from electricity	8.1
Gas - energy usage (KWh)	37500
Gas - energy usage (KWh) weather adjusted	37585
Tonnes of CO2 emissions from gas	7.8
Weather adjusted tonnes of CO2 emissions from gas	7.8
Oil - energy usage (KWh)	0
Oil - energy usage (KWh) weather adjusted	0
Tonnes of CO2 emissions from oil	0.0
Weather adjusted tonnes of CO2 emissions from oil	0.0
LPG - energy usage (KWh)	0
LPG - energy usage (KWh) weather adjusted	0
Tonnes of CO2 emissions from LPG	0.0
Weather adjusted tonnes of CO2 emissions from LPG	0.0
Fossil fuels - energy usage (KWh)	37500
Fossil fuels - energy usage (KWh) weather adjusted	37585
Tonnes of CO2 emissions from fossil fuels	7.8
Weather adjusted tonnes of CO2 emissions from fossil fuels	7.8
Wood - energy usage (KWh)	0
Wood - energy usage (KWh) weather adjusted	0
Tonnes of CO2 emissions from wood	0.0
Weather adjusted tonnes of CO2 emissions from wood	0.0
Pellets - energy usage (KWh)	0
Pellets - energy usage (KWh) weather adjusted	0
Tonnes of CO2 emissions from pellets	0.0
Weather adjusted tonnes of CO2 emissions from pellets	0.0

Biomass - energy usage (KWh)	0
Biomass - energy usage (KWh) weather adjusted	0
Tonnes of CO2 emissions from biomass	0.0
Weather adjusted tonnes of CO2 emissions from biomass	0.0
Energy generated from solar PV (KWh)	0
Solar energy exported (KWh)	0
Solar energy exported (tCO2e)	0.0
100% Renewable energy (KWh)	0
100% Renewable energy (KWh) - weather adjusted	0
100% Renewable energy (tCO2e)	0.0
100% Renewable energy (tCO2e) - weather adjusted	0.0
Electricity - net energy usage (KWh)	28240
Electricity - net energy usage (KWh) weather adjusted	28253
Net tonnes of CO2 emissions from electricity	8.1
Weather adjusted net tonnes of CO2 emissions from electricity	8.1
Total gross energy usage (KWh)	65740
Total gross energy usage (KWh) - weather adjusted	65838
Total net energy usage (KWh)	65740
Total net energy usage (KWh) - weather adjusted	65838
Total gross tonnes of CO2 emissions	15.9
Total gross tonnes of CO2 emissions - weather adjusted	15.9
Total net tonnes of CO2 emissions	15.9
Total net tonnes of CO2 emissions - weather adjusted	15.9
Estimated useable floor area (m ²)	350
Person hours/year	23556
Emissions per m ² of usable floor area	73.4
Emissions per m ² of usable floor area with adjustment for future carbon negativity	88.4
Person hours per m ² of usable floor area	67.3
Emissions per person hour	1.1

Emissions per person hour with adjustment for future carbon negativity	1.3
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Other Calculated Values for Other Buildings

Show / Hide

Is your church's electricity tariff 100% renewable?	False
Electricity - energy usage (KWh)	28240
Electricity - energy usage (KWh) weather adjusted	28292
Tonnes of CO2 emissions from electricity	8.1
Weather adjusted tonnes of CO2 emissions from electricity	8.2
Gas - energy usage (KWh)	0
Gas - energy usage (KWh) weather adjusted	0
Tonnes of CO2 emissions from gas	0.0
Weather adjusted tonnes of CO2 emissions from gas	0.0
Oil - energy usage (KWh)	0
Oil - energy usage (KWh) weather adjusted	0
Tonnes of CO2 emissions from oil	0.0
Weather adjusted tonnes of CO2 emissions from oil	0.0
LPG - energy usage (KWh)	0
LPG - energy usage (KWh) weather adjusted	0
Tonnes of CO2 emissions from LPG	0.0
Weather adjusted tonnes of CO2 emissions from LPG	0.0
Fossil fuels - energy usage (KWh)	0
Fossil fuels - energy usage (KWh) weather adjusted	0
Tonnes of CO2 emissions from fossil fuels	0.0
Weather adjusted tonnes of CO2 emissions from fossil fuels	0.0
Wood - energy usage (KWh)	0
Wood - energy usage (KWh) weather adjusted	0
Tonnes of CO2 emissions from wood	0.0

Weather adjusted tonnes of CO2 emissions from wood	0.0
Pellets - energy usage (KWh)	0
Pellets - energy usage (KWh) weather adjusted	0
Tonnes of CO2 emissions from pellets	0.0
Weather adjusted tonnes of CO2 emissions from pellets	0.0
Biomass - energy usage (KWh)	0
Biomass - energy usage (KWh) weather adjusted	0
Tonnes of CO2 emissions from biomass	0.0
Weather adjusted tonnes of CO2 emissions from biomass	0.0
Energy generated from solar PV (KWh)	0
Solar energy exported (KWh)	0
Solar energy exported (tCO2e)	0.0
100% Renewable energy (KWh)	0
100% Renewable energy (KWh) - weather adjusted	0
100% Renewable energy (tCO2e)	0.0
100% Renewable energy (tCO2e) - weather adjusted	0.0
Electricity - net energy usage (KWh)	28240
Electricity - net energy usage (KWh) weather adjusted	28292
Net tonnes of CO2 emissions from electricity	8.1
Weather adjusted net tonnes of CO2 emissions from electricity	8.2
Total gross energy usage (KWh)	28240
Total gross energy usage (KWh) - weather adjusted	28292
Total net energy usage (KWh)	28240
Total net energy usage (KWh) - weather adjusted	28292
Total gross tonnes of CO2 emissions	8.1
Total gross tonnes of CO2 emissions - weather adjusted	8.2
Total net tonnes of CO2 emissions	8.1
Total net tonnes of CO2 emissions - weather adjusted	8.2
Estimated useable floor area (m ²)	300

Person hours/year	4680
Emissions per m ² of usable floor area	43.8
Emissions per m ² of usable floor area with adjustment for future carbon negativity	58.8
Person hours per m ² of usable floor area	15.6
Emissions per person hour	2.8
Emissions per person hour with adjustment for future carbon negativity	3.8
