



THE CHURCH OF ENGLAND

Environment Programme

Practical ways to make your church more environmentally friendly

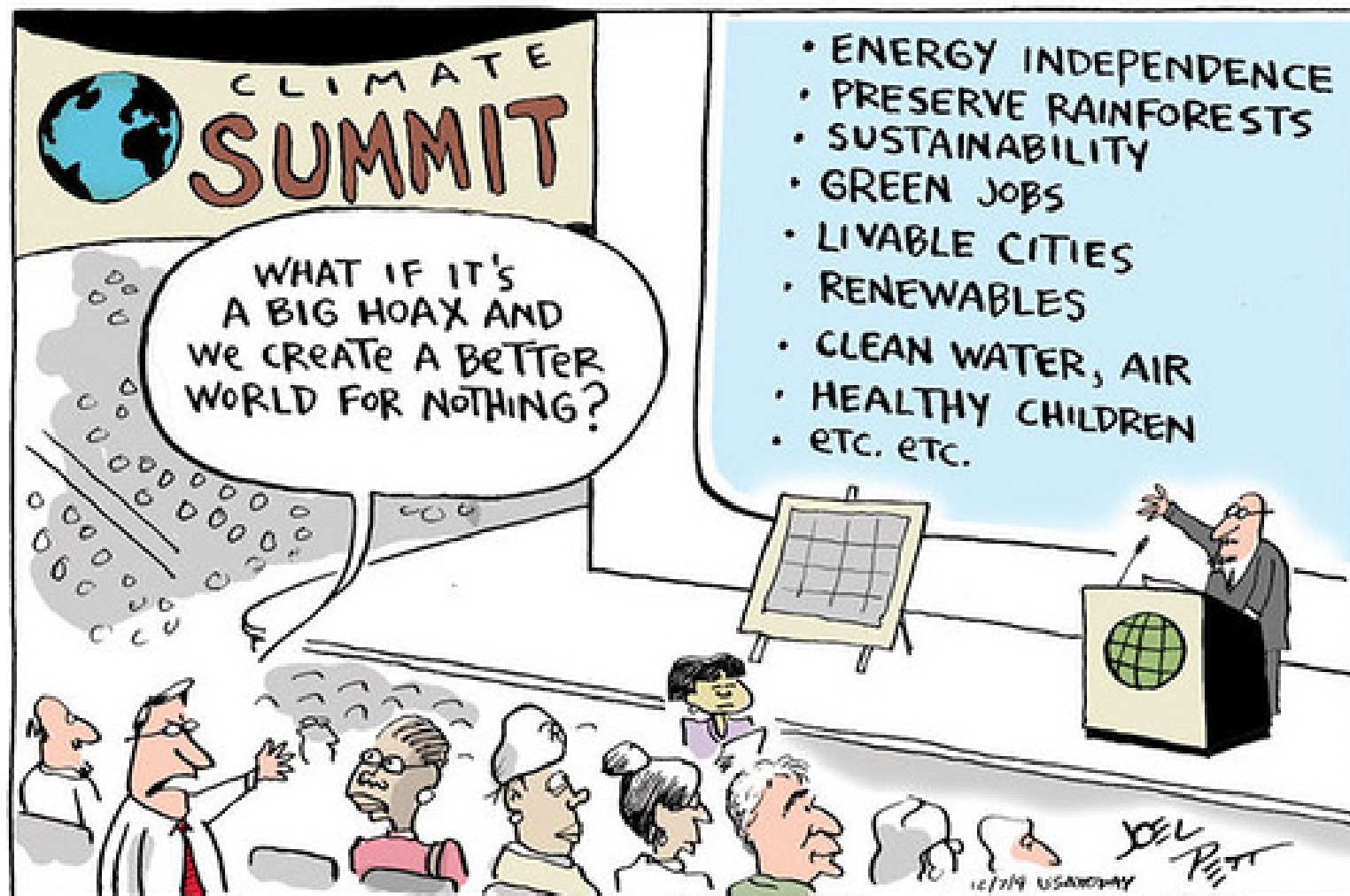
Ruth Knight, Environmental Policy Officer



@CofEEnvironment



ShrinkingtheFootprint



CLIMATE SUMMIT

WHAT IF IT'S
A BIG HOAX AND
WE CREATE A BETTER
WORLD FOR NOTHING?

- ENERGY INDEPENDENCE
- PRESERVE RAINFORESTS
- SUSTAINABILITY
- GREEN JOBS
- LIVABLE CITIES
- RENEWABLES
- CLEAN WATER, AIR
- HEALTHY CHILDREN
- ETC. ETC.



10/2/19 USA TODAY

DEL
PETT

Encouraging & supporting parishes to focus on creation, especially in their worship, in their decisions about buildings and assets, and in daily life



Buildings

1. Is your church responsible for the premises in which it meets?

☒ Yes ☐ No

2. We have measured our energy use and calculated the carbon footprint of our church premises:

☒ Yes ☐ No ☐ Need to find out

3. We have set sufficient targets for reducing the carbon footprint of our church premises and achieving year-on-year improvements in energy efficiency:

☒ Yes ☐ No ☐ Need to find out

4. We offset the carbon footprint of our church premises for those things we can't reduce:

☒ Yes ☐ No ☐ Need to find out

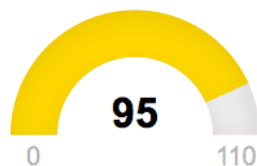
5. The electricity supplied to our church premises is generated from renewable resources and/or charged according to our supplier's 'green tariff':

☒ Yes ☐ Some ☐ No ☐ Need to find out ☐ Not applicable (no external supply)

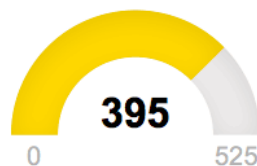


<https://ecochurch.arocha.org.uk/>

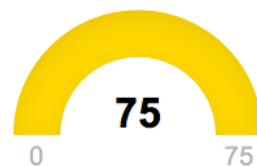
Worship and Teaching



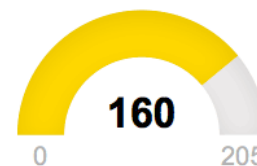
Buildings



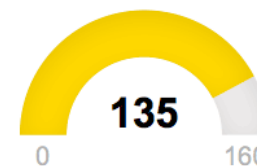
Land



Community and Global



Lifestyle



Half of the cheapest energy deals are green



Green energy deals are now as competitively priced as their non-green counterparts, according to price comparison site uSwitch.

- **Four fifths of households fail to switch in Ofgem energy trial**

Research from the firm found that the number of environmentally-friendly tariffs available on the market have increased by a third over the past 12 months.

As many as half of the top 10 cheapest deals that are currently available are green energy deals. There are 57 different deals to choose from – up from 36 last year, uSwitch found.

Households can save £273 on average by opting for a green energy deal, compared to a typical standard variable tariff (SVT). This saving has increased by £40 since last year.



Helping churches and congregations switch to 100% renewable energy

www.parishbuying.org.uk/energy



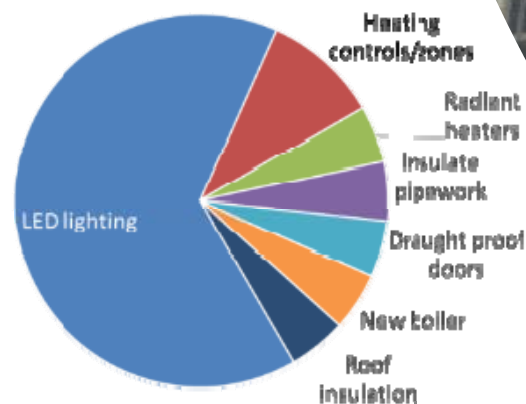
Projects coming out as
(relatively) low cost / high
impact – so generally worth
implementing

- Better heating controls / zoning
- Pipe lagging
- Replacing old boilers

(http://www.churchcare.co.uk/images/Guidance_Notes/Heating_System.pdf)

- Draught-exclusion
- Low energy lighting – *bulb replacements*

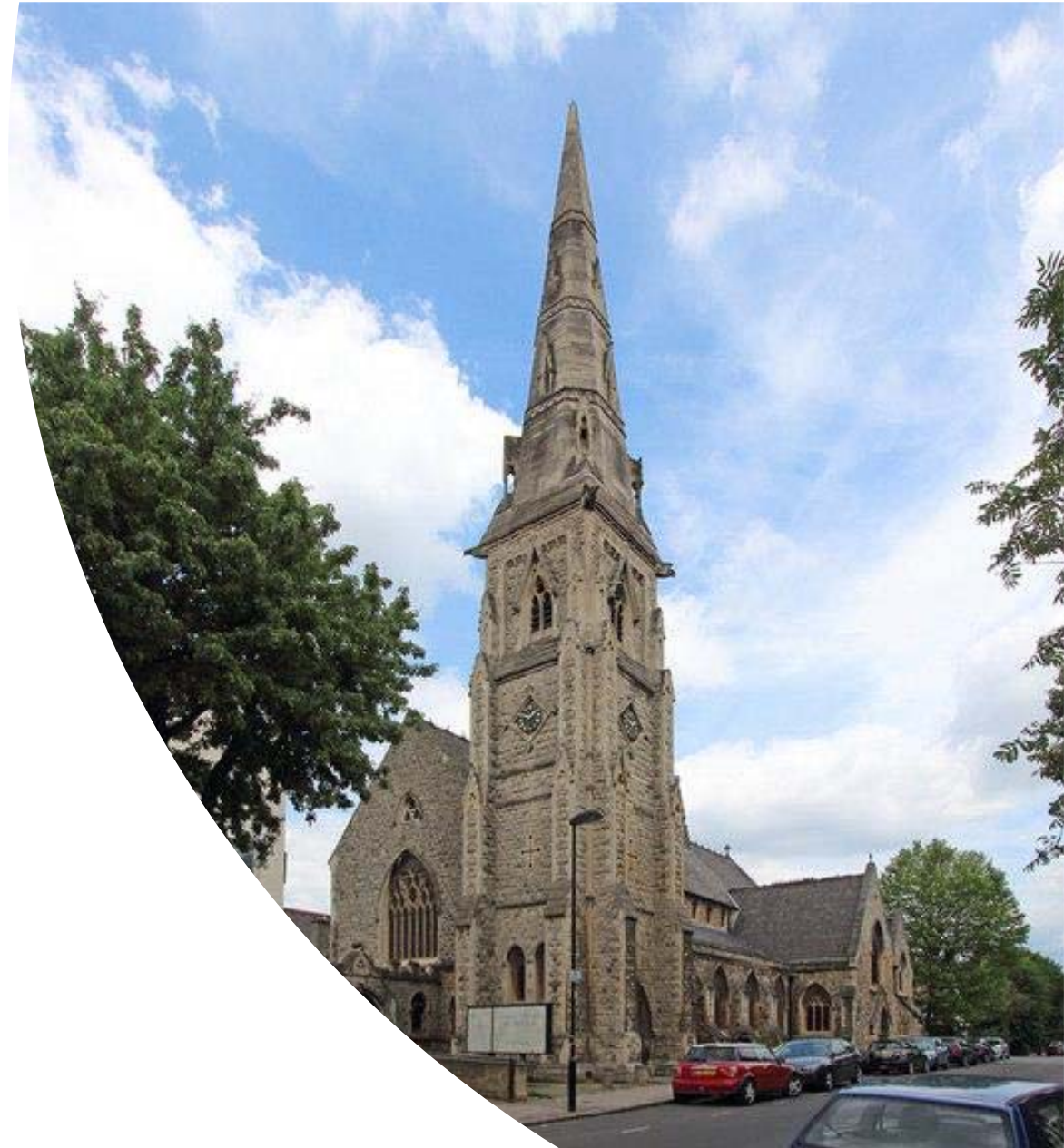
(<https://www.parishbuying.org.uk/categories/led-lighting>)



Projects coming out as high cost / high impact

– so generally worth investigating

- Solar panels
- LED lighting – *where fittings need changing*
- Far infra-red radiant panel heaters – *sometimes*
- Insulation – *where you have a roof void and safe access*



High cost / low impact projectsareas to be cautious about

- Secondary-glazing / double-glazing
- Roof insulation where there is no roof void
- Internal / external wall insulation
- Ceiling fans

... although they *can* be valuable in some circumstances



Plus lots of steps which are low cost / low impact.....

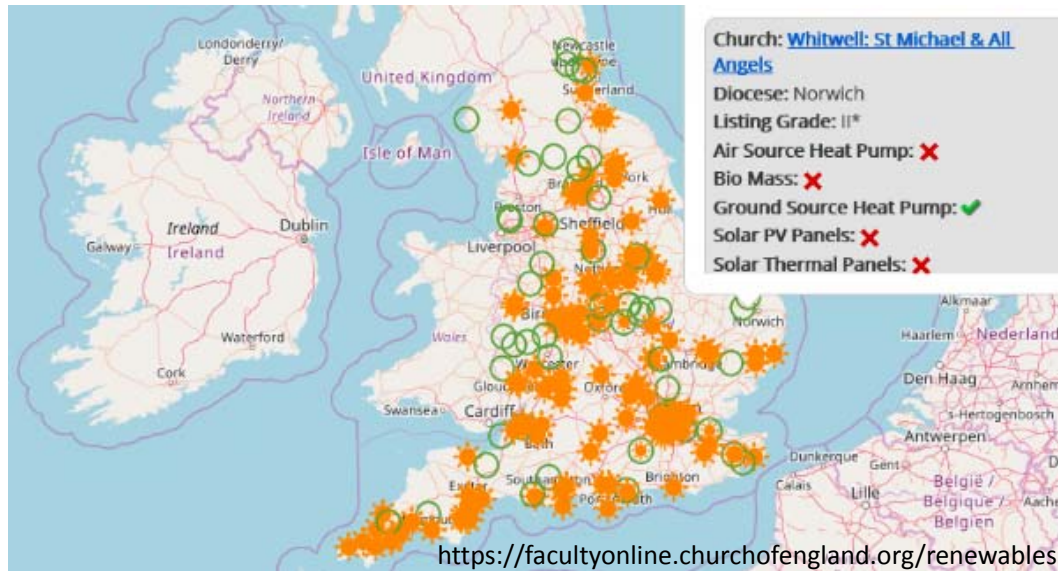
- Turning off equipment when not in use
- Reduce hours for the floodlighting
- Get TRVs for radiators and turn down rooms which aren't in regular use
- Turn down the thermostat
- Regularly review the on / off times of heating
- Service the boiler, clear dust from heaters



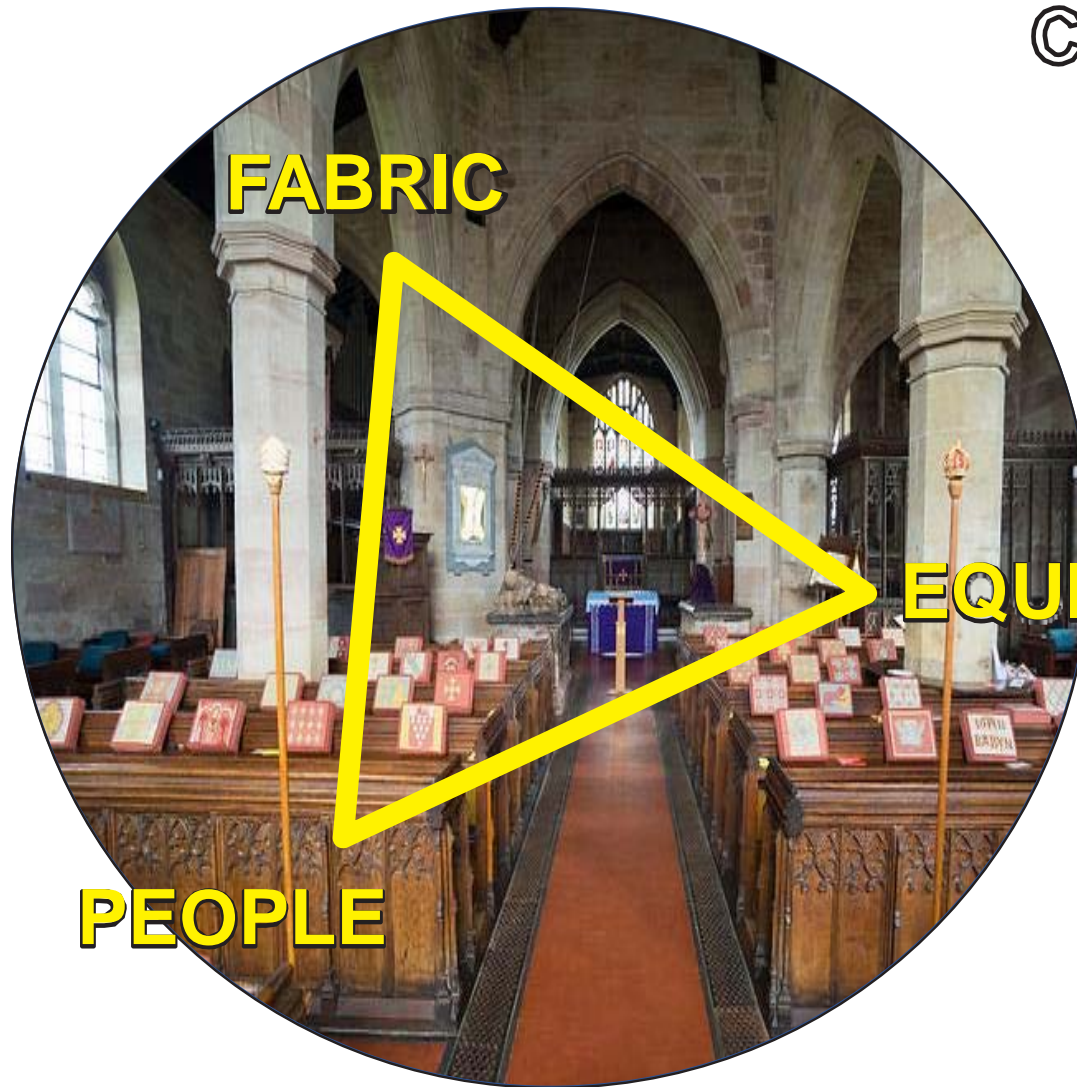


Solar cost / benefits

- **In some areas Solar PV panels are proving to be the most cost effective way to benefit the environment**
- 9 churches have applied for grants for solar PV
- Quotes varying from £10k to £40k
- Annual benefits £880 to £2,600, payback 6-17 years
- Ave. cost per tonne of CO₂e saved = £4.5k
- Churches can easily get a free estimate
- But *getting* to implementation costs £1k-£4k
- **Tight deadline for Feed in Tariff of March 31st 2019**



CONTEXT



FABRIC

EQUIPMENT

PEOPLE



Land

75

<https://www.churchtimes.co.uk/green-health-awards>





<https://www.caringforgodsacre.org.uk/>



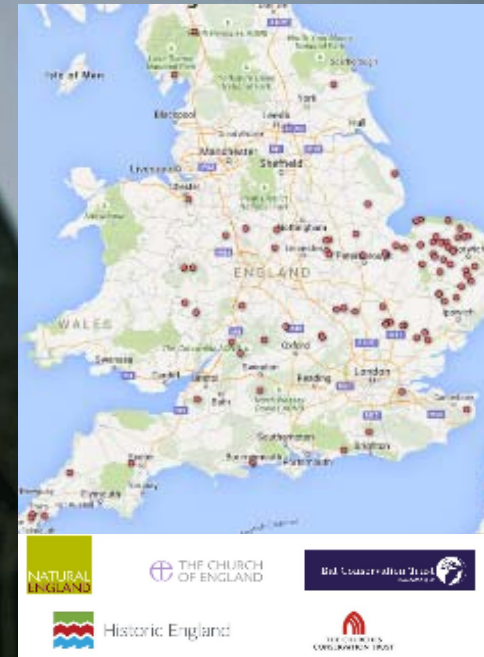
Bats in Churches

Practical solutions for 102 most severely impacted churches

Collect & collate up-to-date data from over 700 churches

Create a new network of 1,812 fully trained volunteers

Engage 12,000 people in church events



The Bats in Churches project will transform support for church communities who care for nationally important historic churches with protected bat roosts.

<https://www.batsandchurches.org.uk/>

Why energy savings make business sense

Manchester Museum's energy savings could pay for the conservation of

08

Egyptian mummies

Cancer Research's energy savings* could pay for

03

microscopes to detect, monitor and track tumours
*Over the last three years

National Trust's gas savings could pay for



7,105

metres of coastal wildlife trails

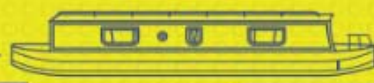
The University of Chester's energy savings could pay for

1,167

books for the university library

The Canal & River Trust's energy savings could pay for

12



hand-crafted new lock gates

Colchester Borough Council's energy savings could pay for



63

workplace electric charge points

'Taking Charge of Change' with the Church of England

4 October 2018

More than 100 UK charities, heritage organisations and more will get together this October for our annual members' event, the Network Harvest. This year's theme is 'Taking Charge of Change', and in the run up to the event we'll be exploring how our varied membership organisations are already instigating positive changes, and how they are responding to changes beyond their control. This week, we hear from Church of England.

Renewable energy, Renewable energy (Solar), Roof-mounted PV (heritage building), Climate-change adaptation measures



<https://fftf.org.uk>





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