



Creation Care and Sustainable Church Building Day

Programme

10am **Creation Care as Mission and Definitions**

Sam Scott

10:15am **Case Study: Somborne with Ashley**

Phil Carr

10:30am **Hazelnut Community**

Rev. John White

11am **Coffee**

11:30am **Net Zero With Parish Buying**

David Richards

12pm **Case Study: Christ Church, Winchester**

Liz Ord and Felicity McElderry

12:30pm **Community Energy**

Laura Wilson

1pm **Lunch**

2pm **Case Study: St Denys, Southampton**

Sera Rumble and Mike

2:30pm **Grants**

Sam Scott & Lucy Howlett

2:40pm **Q&A**

DAC & Environment Team



Creation Care as Mission

Sam Scott

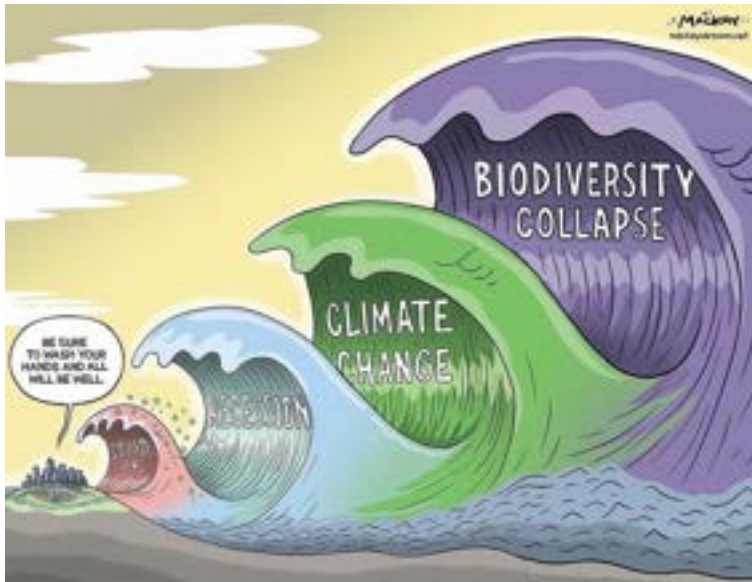
sam.scott@winchester.Anglican.org



Creation Care

It's easy to start from a place of:

- Despair
- Worry
- Feeling overwhelmed



Matthew 28:16-20

Then the eleven disciples went to Galilee, to the mountain where Jesus had told them to go. When they saw him, they worshiped him; but some doubted. Then Jesus came to them and said, “All authority in heaven and on earth has been given to me. Therefore go and make disciples of all nations, baptizing them in the name of the Father and of the Son and of the Holy Spirit, and teaching them to obey everything I have commanded you. And surely I am with you always, to the very end of the age.”

Colossians 1:15-20

The Son is the image of the invisible God, the firstborn over all creation. **For in him all things were created: things in heaven and on earth, visible and invisible, whether thrones or powers or rulers or authorities; all things have been created through him and for him.** He is before all things, and in him all things hold together. And he is the head of the body, the church; he is the beginning and the firstborn from among the dead, so that in everything he might have the supremacy. For God was pleased to have all his fullness dwell in him, and **through him to reconcile to himself all things, whether things on earth or things in heaven,** by making peace through his blood, shed on the cross.



Genesis 1:26-28 – The Message

God spoke: “Let us make human beings in our image, make them reflecting our nature so they can be responsible for the fish in the sea, the birds in the air, the cattle, and, yes, Earth itself, and every animal that moves on the face of Earth.”

God created human beings; he created them godlike, reflecting God’s nature. He created them male and female.

God blessed them: “Prosper! Reproduce! Fill Earth! Take charge! Be responsible for fish in the sea and birds in the air, for every living thing that moves on the face of Earth.”

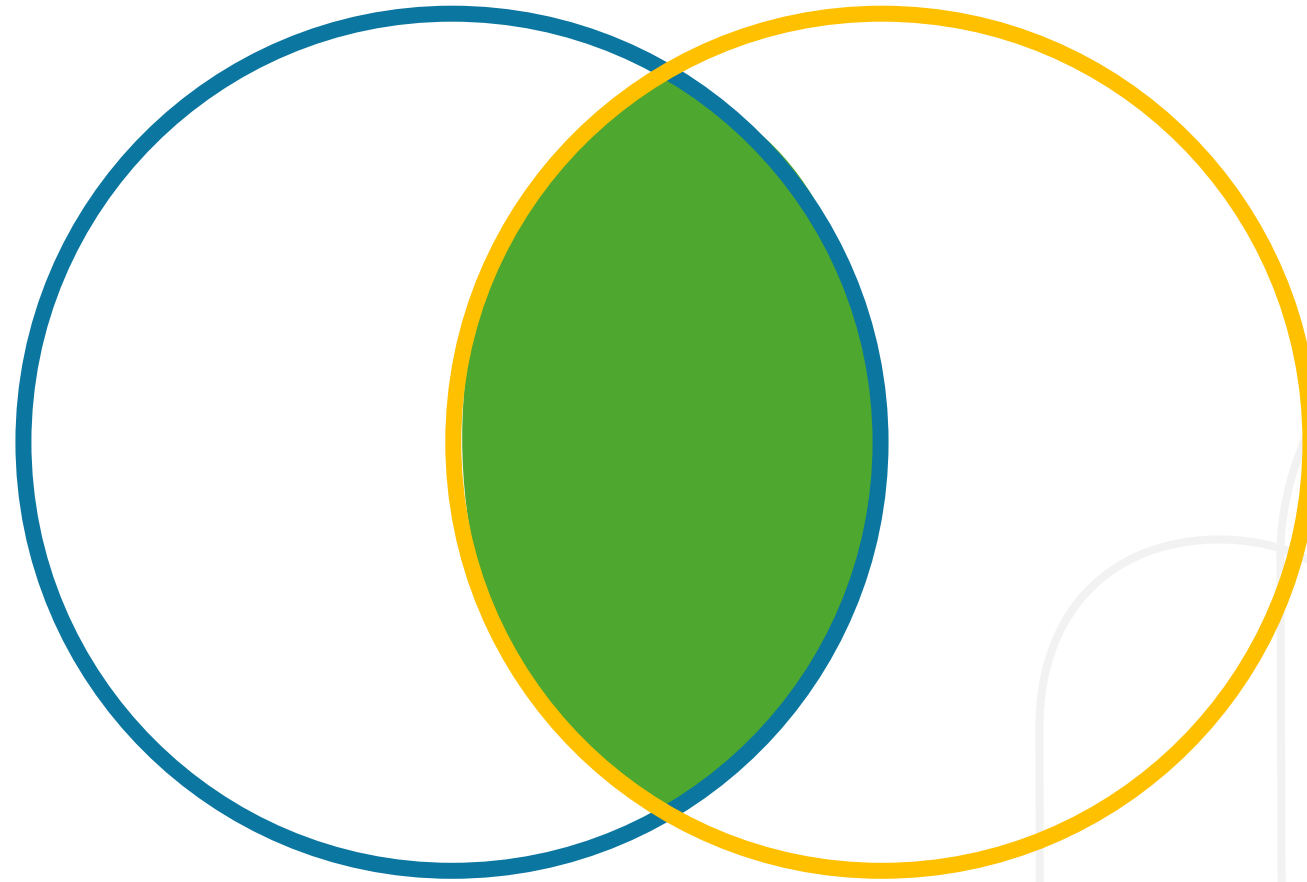
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Missional Opportunity

- The environment is regularly listed as in the top five issues for UK adults.
- The environment risks becoming an obstacle to mission, but it is an opportunity.





Creation Care offers an opportunity to
find common ground.



Net Zero Carbon 2030

What Does Net Zero Mean For Most Parishes?

Reducing emissions from:



Heating
(Gas & Oil, etc.)



Electricity



Travel

To zero, through modifications (e.g. removal of fossil fuel boilers, installation of LED lights) or accredited offsetting by 2030.

Parish Journey To Net Zero

Where are we now?

Energy Footprint Tool

Energy Audit

Eco Church

**Switch to renewable
tariff**

**Address reimbursable
travel**

How can we reduce?

Heating Timetables

LED Lighting

Triple Insulated Urns

Insulating Pipes

Monitoring Electrical Use

**Switch to low carbon
heating source**

Plan

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Case Study: Sombourne with Ashley

Phil Carr





CREATION CARE AND
SUSTAINABLE BUILDINGS DAY

19th October 2024

SOMBORNE WITH ASHLEY
WILDING YOUR CHURCH CASE STUDY

SOMBORNE WITH ASHLEY - WILDING YOUR CHURCH CASE STUDY

Wildflower Meadow Project - 1

- First discussions in 2021 – Considerable support from most of our congregation
- Also some resistance from others in the village
- Decision to proceed with three trial areas of about 4 m² each
- Fundraising event produced £350 which covered signage, seeds and other materials for 3 seasons

SOMBORNE WITH ASHLEY - WILDING YOUR CHURCH CASE STUDY

Wildflower Meadow Project – 2

- Caring for God's Acre website – no grass cutting in trial areas from early spring to early August
- All cuttings from August cut and later cuts removed to gradually deplete soil nutrition
- Wild flowers thrive in poor soil, grasses prefer richer soil
- Turf removed and replaced by grit/soil mixture in some areas for sowing wild flower seeds– other areas left as is.

SOMBORNE WITH ASHLEY - WILDING YOUR CHURCH CASE STUDY

Wildflower Meadow Project – 3

- Intention to cut margins around gravestones and also paths cut when relatives request access
- Seed mixes may contain annuals including yellow rattle and perennials such as ox-eye daisies.
- Yellow rattle is a parasite which draws its nutrition from grass roots and depletes grass growth. It often disappears from sown areas after a few seasons.
- We have snowdrops and primroses in early spring; ox-eye daisies, champions, buttercups and others throughout the summer

SOMBORNE WITH ASHLEY - WILDING YOUR CHURCH CASE STUDY

Wildflower Meadow Project – 4 Objectives

- Check on sustainability of wild flower growth over several seasons
- Extend wild flower areas in the churchyard over following years
- Produce maintenance plan for the churchyard gardeners for maintaining larger wild flower areas
- Some areas in front of the church would be kept as short grass especially where marquees and gazebos are erected in the summer and where wedding groups gather for photographs

SOMBORNE WITH ASHLEY - WILDING YOUR CHURCH CASE STUDY

Wildflower Meadow Project – 5 Visit to wild flower meadow project at Jesus College Cambridge on September 28th 2024

- Several areas of wild flowers of 50-100 m² each close to college buildings
- Areas were prepared by removing turfs and sowing with mixture of annual and perennial flowers.
- Areas had not been cut on 28th September. Head gardener intending to cut in next two weeks
- As part of Net-Zero carbon plan, 49 ground source heat pumps have been installed below some of the 33 acres of grounds

SOMBORNE WITH ASHLEY - WILDING YOUR CHURCH CASE STUDY

Wildflower Meadow Project – 6 - Summary

- Consider a small trial in your churchyard say 8-10 m² over 5 years
- Put a small weatherproof sign in the churchyard explaining project
- Keep short around gravestones, use different seed mixtures and different cutting times in August/September
- Important to deplete soil nutrition by removing cuttings
- Wonderful to see butterflies on the wild flowers and hear low hum of flying insects
- Check with DAC whether any faculty needed for any of the work

SOMBORNE WITH ASHLEY - WILDING YOUR CHURCH CASE STUDY

Other activities

- Two bird feeders set up in churchyard near wall with school playground – seeds to be added from early November
- Two bird boxes will be placed on trees nearby
- Small weather station donated to the village school
- Visiting speakers at our church on Creation Care topics
- Bronze Eco-church award in 2023
- Reports prepared on replacing church heating – decision to continue with existing system to end of working life





St Peter and St Paul - Kings Somborne
Churchyard Wildflower Meadow Project

Three square areas in the churchyard and one along the wall facing you have been chosen to carry out our wildflower meadow project trials. These areas have been sown with a selection of native wild flowers and grasses.

The areas will be left uncut in the spring and early summer which will allow the flowers to produce blossoms and seed pods. This should attract a variety of insects and birds and will enrich the wild life of the churchyard. The areas will be cut in late July or early August by which time many of the annual flowers will already have produced seeds.

Different mixture of seeds and different depths and methods of sowing have been used in the four areas. The results of the trials over the next year or so will allow us to plan the enlargement of the wild flower areas in the area of the churchyard at the back of the church.







Hazelnut Community


Rev. John White





GET GROWING

**WE SUPPORT CHURCHES IN
CREATING ECO
COMMUNITIES ON THEIR
LAND IN ORDER TO DEEPEN
WORSHIP, WELCOME THEIR
COMMUNITY, AND COMBAT
CLIMATE BREAKDOWN**




GET GROWING





GET GROWING





GET GROWING





GET GROWING

Reduction

A call to create

The essential work is not to create a “sustainable” world but a more “beautiful, healthy, vibrant, diverse, clean, fragrant, delicious, and just” world. The language of sustainability is uninspiring and far too vague. -

Norman Wirzba



Howard Leventhal



GET GROWING



RESOURCES

Wonderful world

Spring session
for schools



2

WONDERFUL WORLD SEASONAL SCRIPT



Spring

“ — read aloud- 1

Winter is the time when nature sleeps. Most trees and plants lose their leaves and nothing much grows. Animals hide away and birds huddle together to keep warm. The soil is cold and hard and bare. In Winter, quite often it rains and sometimes the earth is covered with snow. Winter days are short – it is dark when we wake up and dark when we get home from school. Sometimes it feels like winter will go on forever. It looks like nothing will ever grow again.

— ”



Pour compost into
black seed tray
and pat down
gently.



2

WONDERFUL WORLD SEASONAL SCRIPT





The Golden Turnip Challenge



Under 18

Eco

Champions



GET GROWING




TRAINING

A close-up photograph of large, dark green leaves, likely from a hosta, with numerous water droplets on their surfaces. The lighting is dramatic, with deep shadows and bright highlights on the leaves.

GET GROWING

A photograph of a field of yellow wildflowers at sunset. The sun is low on the horizon, creating a warm, golden glow and lens flare. The word "SUPPORT" is overlaid in white, serif, all-caps font in the center of the image.

SUPPORT

A close-up photograph of dark green, textured hosta leaves. The leaves are layered and have prominent veins. A semi-transparent dark green rectangular box is overlaid on the left side of the image.

GET GROWING

A close-up photograph of vibrant green peony flowers. The petals are tightly packed and layered, creating a complex, ruffled texture. A white rectangular border is drawn around the central part of the image, framing the text.

INPUT



Coffee





Net Zero With Parish Buying

David Richards





Winchester Green Day

David Richards Net Zero Carbon Officer

Agenda

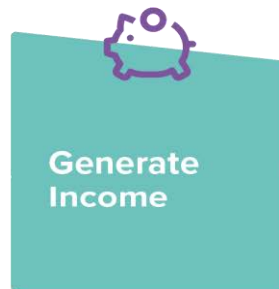
- ◆ Who we are
- ◆ Our priorities
- ◆ Recent changes
- ◆ Products and Services
- ◆ How to register

Who are Parish Buying



We are a buying service set up by the Church, for the Church.

- Through the bulk buying power of the Church, we negotiate competitive prices with suppliers across a range of different contracts.
- All our suppliers undergo a careful selection process, and the contracts have been professionally reviewed, removing hidden surprises.
- We manage the contracts and provide support to buyers.



30,000 Parish Buying Members and growing!

Parish Buying Priorities

- Priority 1: Increased portfolio of goods and services to enhance Parish ministry
- Priority 2: Become the Procurement Centre of Excellence
- Priority 3: Green Energy from a green supply chain.

All 3 priorities align with, and support the journey to net zero objectives and fall into 2 categories

1. Products and services that meet the needs of the church and can enhance parish ministry
2. Income generation for the church



Parish Buying

Recent Changes

- New team members
- New Logo
- New web site
- Addition/Removal of suppliers.
- New Product Categories – Income Generation, Health and Safety
- Full review of all contracts and services to ensure that we are getting the best for the churches



Full Products and Services



Giving & Payments

Contactless Giving
Contactless Devices
Online Giving & QR codes
Generous Giving
Help & Support

Phone & Broadband

Mobile Phones and Connectivity
Fixed Line Broadband
Wireless Community Broadband

Net Zero

EV Charging
Heated Cushions

Energy

Energy Basket
Energy Audits
Heating Oil
Fixed Term Energy Contracts

Information Technology (IT)

Virtual Church
Office Software for Charities
Church Management Systems
Digital Visitor Tour Guides

Health & Safety

Fire Safety
PPE & Hygiene
First Aid

Income Generation

EV Charging
Network Coverage
Just Park

Audio Visual Equipment

Event Management

Furniture

Church Supplies

GDPR E-learning

Insurance

LED Lighting

Office Products

Photocopiers and Printers

Buildings Maintenance



EV Charge Points

- For sites with their own car park
- No cost to the church
- Income generation based on charge points
- Encourages people to use church facilities
- Provides a charging station in areas where there aren't many facilities for this

So far we have had nearly 400 enquiries with 80 going to the next stage of site survey

Income ranging from £200 - £8000

Building Maintenance



- New supplier and service - Phosters
- Covers all general maintenance and statutory requirements
- National coverage
- Contract or ad-hoc service available
- Fully insured and certified

Phosters

- Mechanical Services
- Commercial Cleaning
- Heating, Ventilation & Air Conditioning (HVAC)
- Compliance Testing
- Grounds Maintenance
- Water Treatment
- Electrical Services
- Fabric Maintenance
- Planned Maintenance (PPM)
- Rainwater maintenance, e.g.: guttering
- Tree surveys and tree surgery
- Stonework, masonry, and lime mortaring
- Asbestos surveys, management, and removal
- Lightning protection system surveys and repairs





Heated Cushions

- Meet safety criteria
- Battery operated
- Several designs and colours
- 20% discount for Parish Buying members
- Easy to use
- Great for heating the person rather than heating the space

Energy Audits

The drive to net zero means that churches need to know where they are starting the journey from.

Many will be at different stages

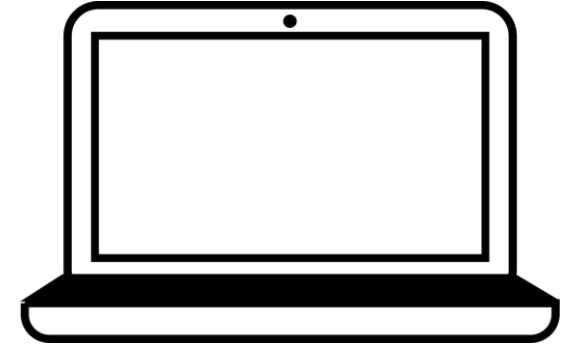
Energy Audits will be used to produce action plans for some of the top carbon emitting churches

- Top 600
- £1.8M investment
- Next phase
- Standardised templates
- Easy to understand goals
- Qualified auditors



Digital Giving Rollout

- £1.25m investment by the National Church to embed online and/or contactless giving in 50% parishes (6,000)
- Delivered between 2021-2024 with two key outputs:
 - 2,000+ contactless donation devices given to churches across the country through diocesan-level projects
 - Online giving service provided free of charge to all churches



Giving to Churches Who Received a Device



Diocese of Winchester's Rollout Project

Delivered in September 2023



44 devices awarded



£10.28
Average
contactless gift



£1,638 annualised
average per device

Interested in Digital Giving?



- Lots of guidance for getting started with online and contactless giving available via [Parish Buying](#)
- Parish Buying also gives you access to discounted rates
- Support available for digital giving both from the Diocese (Jordan Shepherd) and National Giving Team
- Join our 'Digital Giving at Christmas' webinar: [register here](#)

How to Register

REGISTER

Please select one of the following

 Church	 Diocese	 Church linked Charity
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Find Your Church

To find your church, please enter your postcode or town and select your address. Then wait for the results to load.

Role

Choose...



parishbuying.org.uk/register



www.parishbuying.org.uk



**Scan the QR code to find out
Ways to Use Parish Buying**



Case Study: **Christ Church, Winchester**

Liz Ord and Felicity McElderry



Community Energy South

Laura Wilson





Community Energy in Hampshire

Laura Wilson

Community Energy South

What is community energy?

- People working together to reduce energy use and generate low carbon heat and power bringing positive outcomes for everyone in the local community.
- Raising awareness of the value of locally led action on climate change.
- Building and investing in their own renewable energy.
- Understanding local energy needs and helping their communities to save energy and money.
- Offering skills, training and job opportunities



What are the benefits?

- Increased renewable energy generation
- Community shares / finance means investment stays locally.
- Community benefit funds.
- Encourages community led action on climate change and delivery of tangible projects.
- Done by people, not to people – decarbonisation programmes work best when people have buy in.
- Provides volunteering and work experience opportunities leading to improved skills and training.



What a community energy projects?

Powering Up

- Community Renewable Energy
- Community Solar
- Hydro/Batteries
- Community heat networks
- EV Charging/EV Car Sharing

Harnessing community finance

Powering Down

- Energy awareness and encouraging energy saving
- Fuel poverty support
- Home energy visits
- Trusted impartial advice

Enabling community resilience



How does it work?

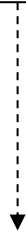


Community Energy Group

- Owns, maintains and manages renewable energy asset
- Enters into long term lease with building owner or offtaker
- Uses PPA income to pay off investors
- Surplus used for community benefit / social impact

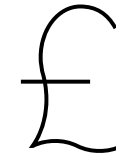


Supplies electricity



- Uses electricity generated onsite
- Pays CEG for generated electricity via PPA

Pays CEG for electricity utilised





What's happening in Hampshire?

- Community Energy South has been working with Hampshire County Council since 2021 to grow the community energy sector in the county.
- CES provides support and mentoring to new and existing community energy groups to help them develop projects
- Building partnerships in county



Hampshire Community Energy Network



- Network of community energy and climate action organisations that are working together to across Hampshire.



How can I get involved?

- Volunteer for your local community energy group
- Help identify any potentially suitable buildings in your area
- Invest in any Hampshire share offers – opportunity to part own a local environment



Winchester Community Solar Support Scheme

Stuart Mills, WinACC Project Manager



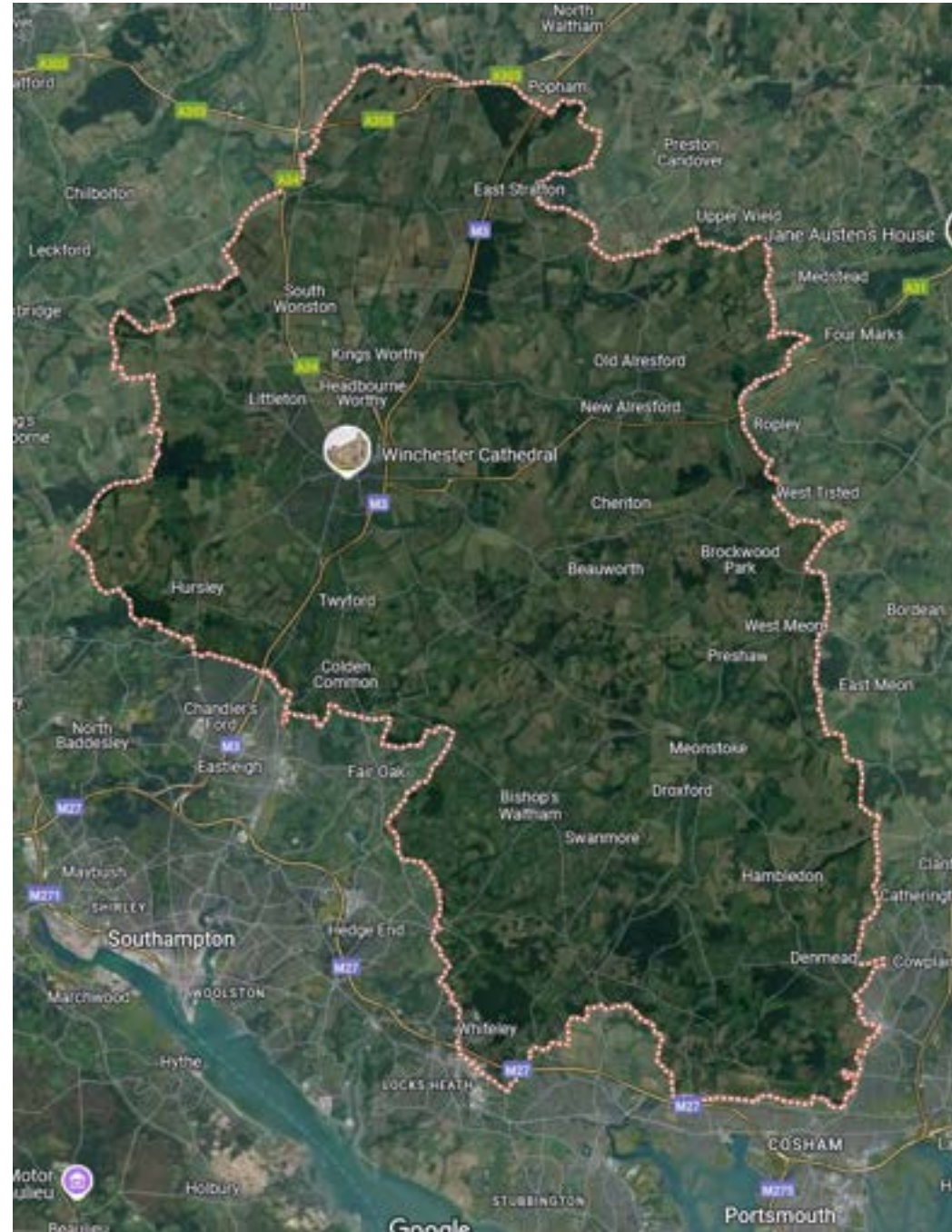
Winchester Action on the Climate Crisis



WinACC

Winchester Action on
the Climate Crisis

Winchester District



Community Solar Support Scheme



Support Provided

- Understand the technology
- Feasibility study
- Develop a fundraising plan
- Write funding applications
- Template tender documents
- VAT, planning, insurance
- Dealing with installers



Feasibility Study

DENMEAD COMMUNITY CENTRE

School Lane SS, Denmead, PO7 6JJ, United Kingdom | 8 Dec 2023



STORAGE

13.8kWh SolarEdge Home Battery (48V)
Smart Battery Management

Self-consumption
68%

Self-consumption from Batteries
16%




Total Storage Capacity
13.8 kWh

Total Battery Power
5 kW




Generation and Consumption

SYSTEM OVERVIEW

 52 PV modules

 1 Inverter

 52 Optimizers

 1 Battery

SIMULATION RESULTS


Installed DC Power
21.32 kWp


Max Achieved AC Power
10.00 kW


Annual Energy Production
19.15 MWh


CO2 Emission Saved (Annually)
3.7t


Equivalent Trees Planted (Annually)
170

SYSTEM PRODUCTION

Total Production - 100 %
19.15 MWh

Self-consumption - 71 %
13.54 MWh

Export - 29 %
5.62 MWh



CONSUMPTION

Total Consumption - 100 %
20.00 MWh

Self-consumption - 68 %
13.54 MWh
3.14 MWh from batteries (16%)

Import - 32 %
6.46 MWh



Benefits of solar

- Reduce energy costs
- More resource for the community
- Reduce carbon emissions
- Local supply chain
- Energy security



Itchen Abbas & Avington Village Hall - Case Study

- £600 saved in 2023
- Projected future savings - £1,500/year
- Open loop water source heat pump



Completed installations




CATHEDRAL


The Close 9, Winchester, SO23 9LS, United Kingdom | 17 Oct 2024



SYSTEM OVERVIEW

 340 PV modules

 2 Inverters

 170 Optimizers

SIMULATION RESULTS



Installed DC Power:

139.40 kWp



Max Achieved AC Power:

133.20 kW



Annual Energy Production:

152.07 MWh



CO2 Emission Saved (Annually):

29.41 t



Equivalent Trees Planted (Annually):

1,351



Contact us

Stuart Mills

solar@winacc.org.uk

07599 823 859

Search online:

WinACC Solar Support



Lunch





Resources



Resources

Net Zero and the Church of England

- [CofE Routemap to Net Zero Carbon by 2030](#)
- [A Practical Path to Net Zero Carbon for Churches](#)
- [Diocese of Winchester NZC Grants](#)
- [Diocese of Winchester DAC Guidance on Net Zero](#)
- [Parish Buying Net Zero Pages](#)

General Net Zero

- [Climate Stewards – Footprint Calculator & Offsetting](#)
- [Katharine Hayhoe – How to Talk About Climate Change](#)
- [The Carbon Literacy Project](#)
- [Community Energy South](#)

Resources

Creation Care in the Parish

- [Eco Church Resource Page](#)
- [Hazelnut Community](#)
- [Caring for God's Acre – Churchyard Resources](#)
- [Worship in the Woods – Church Service Pack](#)
- [Preaching for God's World – Resources for Preaching](#)

Small Group Resources

- [Saying Yes To Life – Book and Small Group Resource](#)
- [Operation Noah – Tenants of the King](#)
- [Tearfund – Christianity and Climate Change](#)

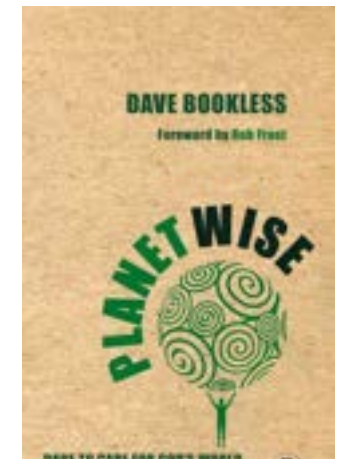
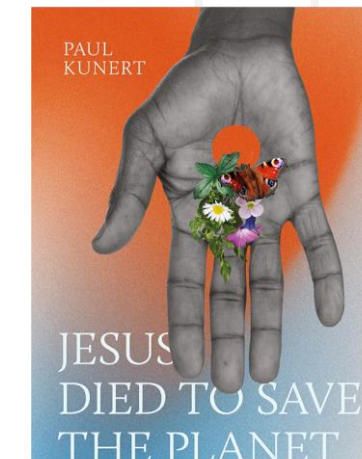
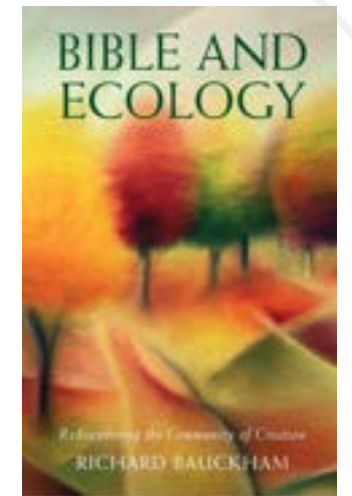
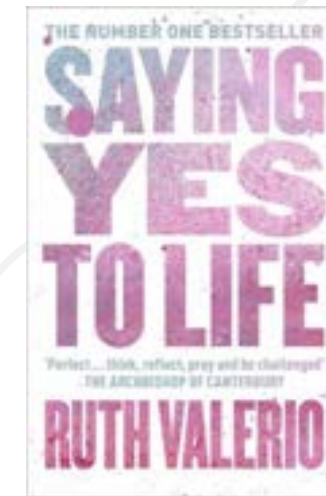
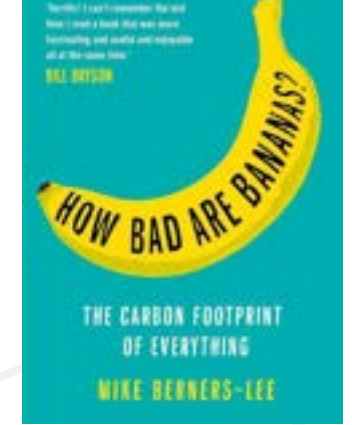
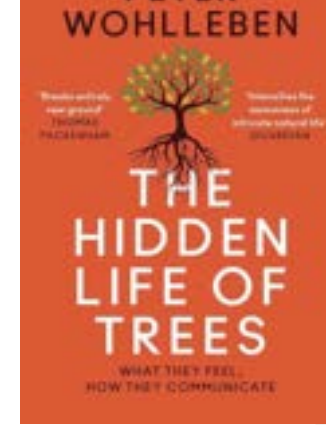
Books

Theology of Creation Care

- Richard Bauckham - The Bible and Ecology
- Dave Bookless – Planetwise
- Pail Kunert- Jesus Died to Save the Planet
- Douglas J. Moo & Jonathon A. Moo – Creation Care: A Biblical Theology of the Natural World

General Nature & Environment

- Mike Berners-Lee - How Bad Are Bananas?
- Peter Wohlleben – The Hidden Life Of Trees
- Hannah Ritchie – Not the End of the World



Training

Why does creation care matter to us as Christians?

22nd Oct – 7pm

Eco Church and Net Zero – Where do we begin and how do we pay for it?

18th Nov – 1pm

How can we make creation care part of our worship?

23rd Jan – 7pm

How can we care for our land and buildings sustainably?

1st May – 11am

What does creation care mean for our lifestyles and engagement with community?

9th June – 7pm

Preaching for creation care

22nd May – 10am - OAP



Case Study: St Denys, Southampton

Sera Rumble and Mike



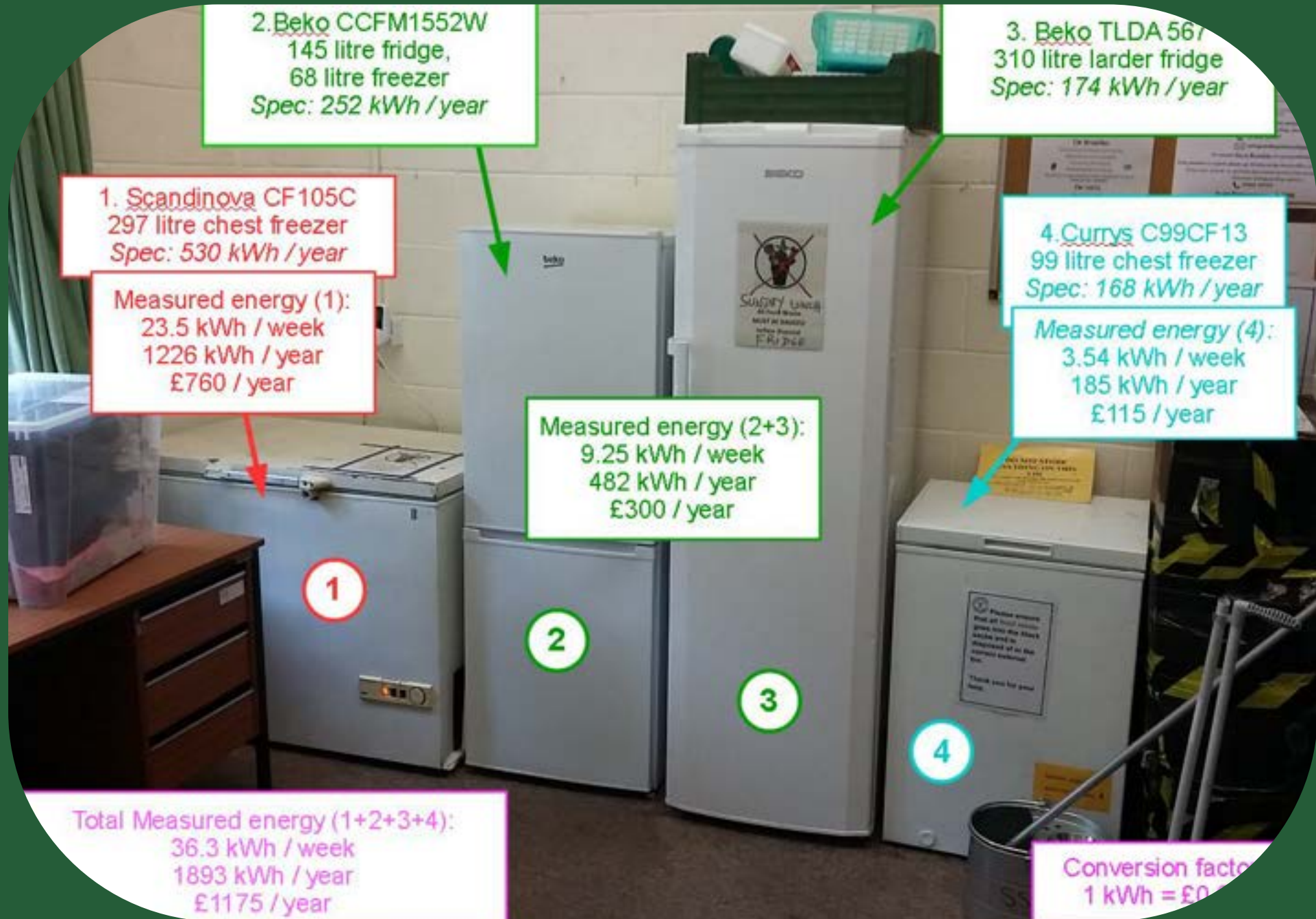
St Denys
Church
& Centre



St Denys
Church
& Centre



Reducing our Energy Use



The Impact So Far



Electricity

At start of energy push (late 2022)

- 24,000 kwh
- £7000 (current prices)
- 5.5 tons of CO2

Current Rolling Projection (late 2024)

- 15,000 kwh
 - £4500 (current prices)
 - 3.4 tons of CO2
-
- Lighting in church used £2 an hour, now 15p per hour
 - We spent approx £2000 on energy lowering items:
 - E.g. low-energy lights, more efficient urns, replacement freezers, seat heaters

The Impact So Far



Gas

At start of Energy Push (2022)

- 200,000 kwh (approx)
- £10,000 (current prices)
- 36.5 tons of CO2

Current Rolling Projection (late 2024)

- 129,000 kwh
- £6000 (current prices)
- 23.5 tons of CO2

- So far only small changes
- E.g. pipe insulation, keeping doors closed, on-the-ball with heater timings, portable infrared heaters



Reducing our Energy Use

Handout available

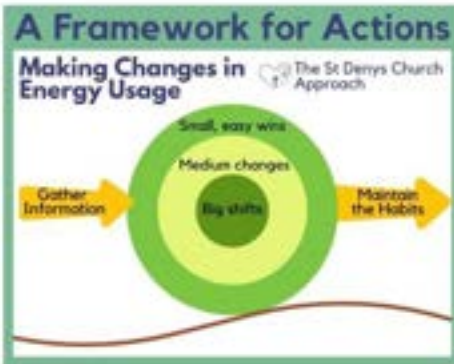


St Denys Church Help-Sheet for Reducing Energy Use

Note: Remember to always consider: what permissions do we need for this action, e.g. PCC, DAC, Faculties?

Questions & Actions

Action	Helpful Questions to Consider	Examples of Useful Things
Gathering Information	<ul style="list-style-type: none"> Who do we have who can help? How much energy are we using? Which items are using a lot? What activities or events are using a lot? 	<ul style="list-style-type: none"> Plug-in Digital Power Meter: £10-£12 - helped us spot a fault costing £700 a year An old camera phone on time-lapse taped onto a meter to photo readings
Easy, small wins (e.g. appliances & energy-loss issues)	<ul style="list-style-type: none"> What could we switch off or use for shorter time (and how can we do that)? What could we swap for more energy efficient options? Where can we use insulation to stop energy loss? 	<ul style="list-style-type: none"> Seat heaters: £50 to buy- running 905 Mon to Fri costs £10 LED fluorescent tubes: £12 - pays for itself in 100 hours of use Triple-skinned urns: £100 (it's like putting water into a flask to keep warm) Pipe insulation: Pack of 64 X 1m £60
Medium changes (e.g. boilers, wiring, pipes)	<ul style="list-style-type: none"> Are the systems working efficiently? Is the current system fit for purpose? 	<ul style="list-style-type: none"> Experts (volunteers or professionals who understand the systems) Documents/records of the system and how it works (stored somewhere accessible)
Big shifts (e.g. solar panels, heat pumps or new tech)	<ul style="list-style-type: none"> Have we made our energy use as efficient as possible? Do we have the infrastructure to support the new system? 	<ul style="list-style-type: none"> We've yet to walk this path, and need to learn from others at the moment! Watch this space
Maintaining the Habits	<ul style="list-style-type: none"> Are people consistently using the energy efficient items we bought? Are enough people maintaining the habits that help with efficiency? If not, why not? And how can this be addressed? If yes, how can this be affirmed and celebrated? 	<ul style="list-style-type: none"> Reminder signs ('doors closed', 'turn off') Time to notice, to listen, to respond, to encourage Annual Checklist of routine maintenance and regular checks



St Denys Church Mike's Insights on Tackling Energy Usage



#2 "Low tech" stuff makes a difference: a blanket / a coat/ a closed door - you can't actually do better with all the fancy stuff out there - but culture-change is tricky (ties in to switching lights off, leaving taps on, propping doors open, etc.)

#4 Do "background" usage level checks - come in, read water/gas/electric at start of a "shutdown" (period building is unoccupied and nothing should be used: overnight, over a few days etc), read again just before end (while still unoccupied); what is the change? Note it may legitimately not be zero - e.g. alarm systems, network systems always-on - but might give clues if there is too much background draw. I'd suggest every church should be doing this at least once a year, to catch changes.

#6 Thermal cameras are great for gathering information about heat loss - are not actually that pricey anymore. I went online, you can hire a really good device for several days for £100 (so could team up and share it between a few churches in that time), but you can also buy units that plug into your phone now for under £200 even from the big brands (FLIR, SEEK), so again could split that cost between a few churches locally and share around.

#9 Unintended consequences - it's a hard-truth but some well-intentioned ideas can backfire. do ask/communicate in advance. tap into specialist knowledge



#1 Easiest first step - read your appliance labels - they should tell you a lot about power draw - might give clues before doing any other testing (although confirmation testing can still be worthwhile)



#3 Ask questions about risk: how could this be unsafe? fire-safety / electrical safety? what would happen if this failed in some way? how could someone misuse this? could it create maintenance problems? could it be targeted by vandalism/theft? could it have insurance consequences? could it lock you into ongoing liability costs for upkeep / maintenance?



#5 Maintenance does matter (sadly) - everything you own probably needs some TLC to stay working well - cleaning vents on fridges blocked by dust makes them more efficient. cleaning underneath & behind radiators, and bleeding them periodically, ensures the heating system stays efficient, cleaning out the bottom face inside urns to de-scale keeps them more efficient - work routine maintenance into schedule, whenever you get a new "thing" think about what it needs done to keep it working well (read the manual)



#7 Don't be too precious about any single idea - be open-minded. learn from others. if you make mistakes, communicate them so others can learn from them.

#8 Look for opportunities to heat the person, not the space! Office chair heaters are a great example of this.

#10 Glitzy isn't always good - right now if we put in a heat pump to run our heating, it would need to be upwards of 100 kilowatts to replace our boiler - that would draw three times more electric than our wiring can cope with! much better: insulate first, reduce the heat need, then see what the need would be once it's reduced (this is what we are doing) - pipe insulation is a lot less glamorous than some green tech - but it might be the sensible (and much cheaper) starting point

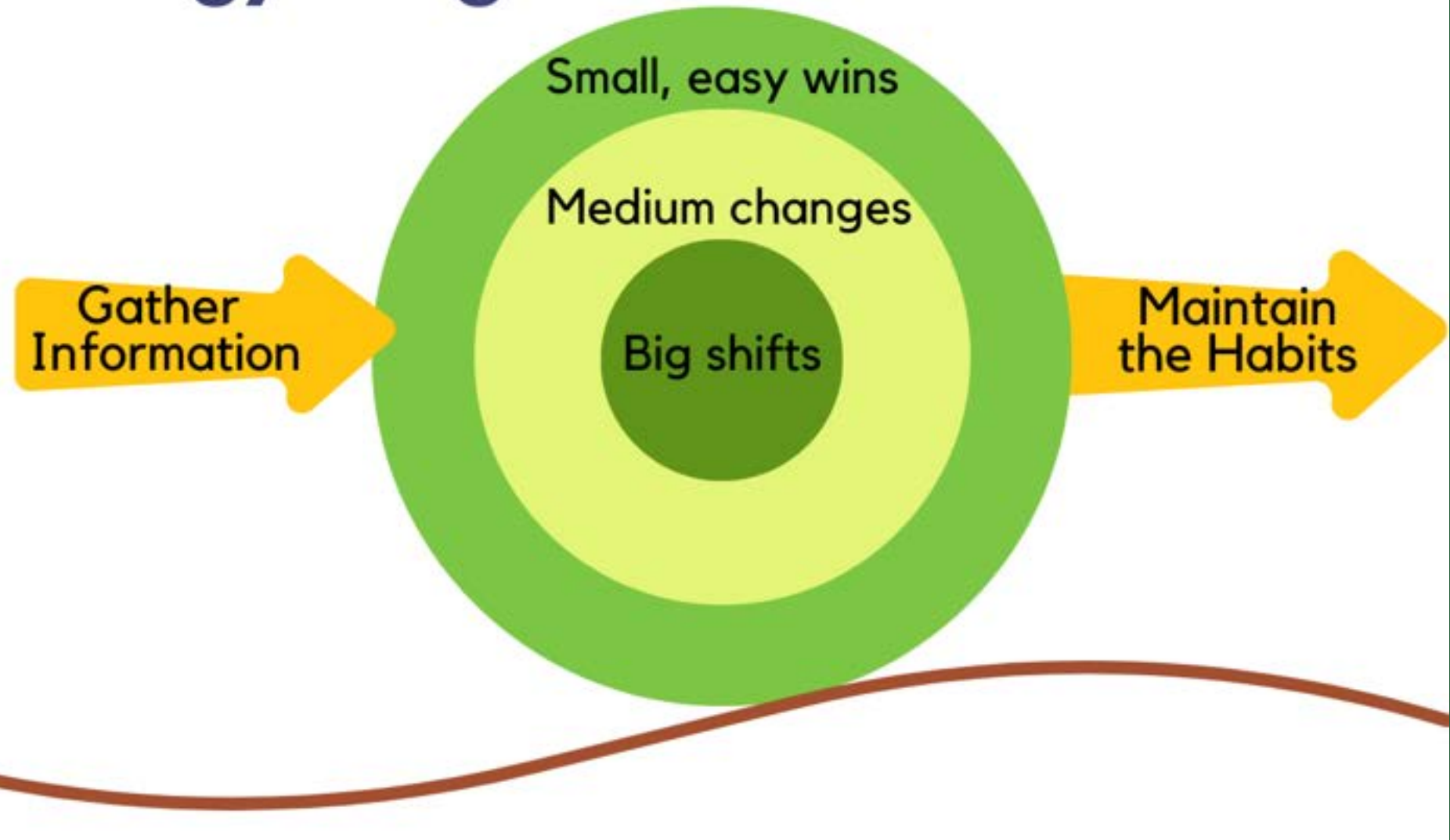
A Framework for Actions



Making Changes in Energy Usage



The St Denys Church Approach



Getting Information



Reducing our Energy Use



Reducing our Energy Use



Old
bulbs:

Halogen
400
Watt



New
bulbs:

LED
17.5
Watt

95% energy saving!

Small, Easy Wins



Volunteer Time



Medium Shifts



Medium & Big Shifts



“Glitzy isn't always good - right now if we put in a heat pump to run our heating, it would need to be upwards of 100 kilowatts to replace our boiler - that would draw three times more electric than our wiring can cope with! much better: insulate first, reduce the heat need, then see what the need would be once it's reduced (this is what we are doing) - pipe insulation is a lot less glamorous than some green tech - but it might be the sensible (and much cheaper) starting point.”



Any
questions
or comments?



St Denys Church & Centre



Grants

Sam Scott – Diocesan Environment Officer

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Lucy Howlett – NZC Project Co-Ordinator

Lucy.howlett@winchester.anglican.org

Parish Journey To Net Zero

Where are we now?

Energy Footprint Tool

Energy Audit

Eco Church

**Switch to renewable
tariff**

**Address reimbursable
travel**

How can we reduce?

Heating Timetables

LED Lighting

Triple Insulated Urns

Insulating Pipes

Monitoring Electrical Use

**Switch to low carbon
heating source**

Plan



Eco Church

- Helps build a wholistic action plan, focusing on 5 areas:
 - Worship and Teaching
 - Buildings
 - Land
 - Lifestyle
 - Community and Global Engagement
- Registration is increasingly important for grant applications.
- Sign up through A Rocha: [Eco Church - An A Rocha UK Project](https://www.ecochurch.org.uk)
- New survey in October 2024.



**Work out your
church's carbon
footprint to help care
for God's creation.**

ENERGY **FOOTPRINT** TOOL



Your findings
will help inform
carbon reducing
projects



Understand your
energy use



Take first steps
as a church on
your eco journey

Energy Footprint Tool

- Required for some grants.
- Provides a Carbon Footprint number to work towards reducing.
- Simpler form this year.
- Gather all energy bills and reimbursable travel details.
- Fill in through parish returns.
- Opens again Jan 2025.

Energy Audits

Looks at your buildings usage and make recommendations on:

- Energy saving measures
- Low carbon heating
- Low carbon energy generation.

A key first step to creating the practical plan needed for grants.

Cost?

Grants available to bring the cost to £145 +VAT. Subsidy ends Dec 2024.



GIVE TO GO GREEN



You give.

We match.

Double your impact.



Give to Go Green

- Match funded grants for small to medium carbon reduction projects, up to £10,000.
- Giving must be raised over a six week period.
- Fundraising must be done through the online Give A Little platform.
- Total projects of up to £20,000.
- Applications open 21st October 2024.

Funding Net Zero

- **Energy Audit Grant** – Subsidised to £145 +VAT. Ends Dec 2024.
- **Quick Wins Grant** – Small grants up to (£3k usually) for quick carbon reduction projects.
- **Give to Go Green** – Match funded grants for small to medium carbon reduction projects, up to £10,000.
- **Diocesan Loan Fund** – Up to £20,000.
- **Outside Funders** – Partnership and community is key.

Training

Why does creation care matter to us as Christians?

22nd Oct – 7pm

Eco Church and Net Zero – Where do we begin and how do we pay for it?

18th Nov – 1pm

How can we make creation care part of our worship?

23rd Jan – 7pm

How can we care for our land and buildings sustainably?

1st May – 11am

What does creation care mean for our lifestyles and engagement with community?

9th June – 7pm

Preaching for creation care

22nd May – 10am - OAP

DAC

Richard Streatfield – DAC Secretary

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Sarah Feltham – Assistant DAC Secretary

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