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CREATING ENERGY WE CAN ALL FEEL GOOD ABOUT

www.lowcarbonhub.org

# Support for communities


# Low Carbon Communities

# Community Grants Programme

Supporting community energy activities across Oxfordshire that contribute to the creation of a decentralised and locally owned renewable energy system.

- ‘powering up’: increasing renewable heat or electricity generation
- ‘powering down’: improved energy efficiency in homes and buildings
- supporting the shift to a low carbon transport system.

Small grants up to **£500 – apply any time before 14 February 2024**

Large grants up to **£5,000** – single competitive round apply by **19 January 2024**

Only Low Carbon Hub community group network members can apply

# Networking and training

As a member of our network, you also get to participate in all our events and training. Such as:

- Thermal Imaging Training
- Energy Champion Training
- Regular community group meetings


# Energy assessments

ENERGY
SOLUTIONS
OXFORDSHIRE

# Energy Solutions Oxfordshire

Tailored energy assessment plans that give organisations everything they need to cut energy waste and start their net-zero journey.

Based on energy use analysis and on-site visits, and delivered by trusted experts, it includes:

- analysis of current energy use
- a costed improvement plan
- low/no cost options
- identifies where you waste energy
- highlights equipment and fabric improvements
- shows how to run your buildings more efficiently

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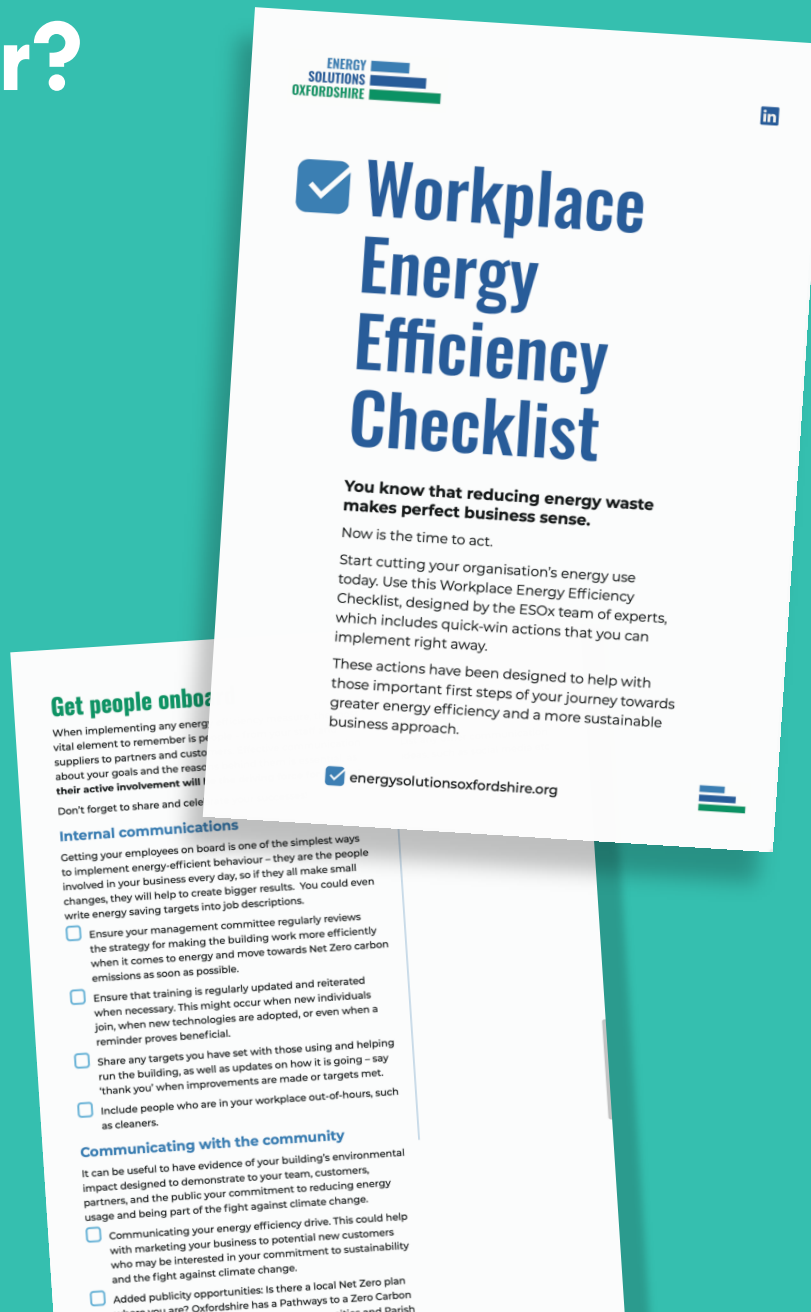
OXFORD BROOKES UNIVERSITY

ENERGY SOLUTIONS OXFORDSHIRE

# Who is this service for?

Any business, educational or academic institution, community organisations or charities - in short, any non-domestic workplace in Oxfordshire

We offer a free downloadable **Workplace Energy Efficiency Checklist**, which gives advice on how they can implement some quick-win measures to get started on their journey.

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WESTMILL SOLAR
CO-OPERATIVE LIMITED

# Community buildings

ENERGY
SOLUTIONS
OXFORDSHIRE

# Who can benefit?

- Any community building in Oxfordshire or within 25 miles of Westmill Solar Park
- Organisations are likely to be at an early stage of exploration into improving their energy performance
- Or you may be planning a new build and would like feedback on architectural plans for new facilities
- The workplace energy efficiency checklist can help get them started
- Community buildings checklist on our website with additional advice, including funding options

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# Schools

# Action on Carbon and Energy in Schools

**Action on Carbon and Energy in Schools** (ACES) is an energy efficiency support service to help schools in Oxfordshire carry out energy saving measures to:

- Cut carbon emissions
- Save money on energy bills
- Make buildings more comfortable and healthier for staff and students

Action on Carbon & Energy in Schools

# Improving schools energy efficiency

- Free energy efficiency support to schools in Oxfordshire
- Free energy assessments to assess the changes that would benefit your buildings
- One-to-one support in creating bespoke energy efficiency plans for your school
- Access to webinars, workshops, and other events to help you

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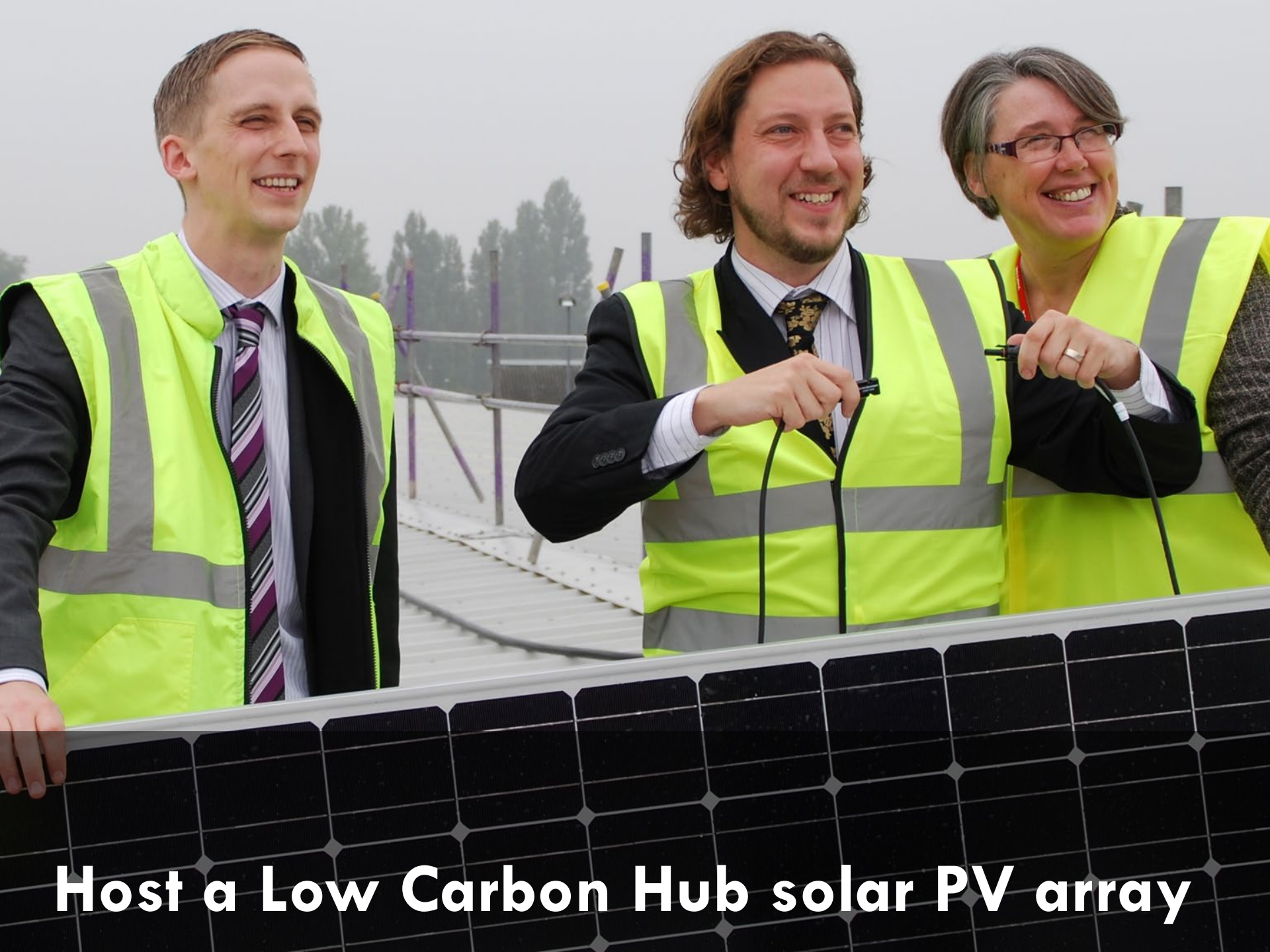

# Host a Low Carbon Hub solar PV array

# Host a Low Carbon Hub-owned solar array

## How does it work:

- We own the solar panels, leasing roof space from our host organisations (e.g. schools, businesses, community halls)
- We raise the capital to pay for the kit and installation
- We manage and maintain the array throughout its lifetime
- The host organisations buy the energy they need from the panels, and any excess is sold to the National Grid
- We reinvest 100% of our own surplus revenue (after costs and investor returns) in carbon-cutting community activity

# A potential site will be…

- 250 $m^2$ minimum roof size
- 50 kW minimum installed capacity
- Building has significant day-time energy use
- Not north-facing
- Good roof condition
- Owner-occupied or 10+ year lease
- Organisation is interested in hosting a Low Carbon Hub installation

# Case study: Thames Travel

- Project commissioned September 2019
- 175 solar panels installed
- 50 kWp installed capacity
- 44,303 kWh of renewable energy generated per year
- Could power 15 typical homes per year

# Potential ground mount

- Minimum 20 acres
- > 5 MW array
- Not grade 1 or 2 agricultural land
- Owner interested in hosting an installation for 30+ years

Smaller arrays (5 acres, 1MW) may be possible if the site can be linked via private wire to  a nearby customer with high annual electricity bills (£150,000+p.a.)

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# Householders

# Energy Advice Programme

- Comprehensive online advice on our website
- Warmer Winter Checklist
- Volunteer Energy Champions and two energy advisers
- Energy Advice stall in a box
- Free Energy Champion training days

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# Cosy Homes Oxfordshire

# Cosy Homes Oxfordshire

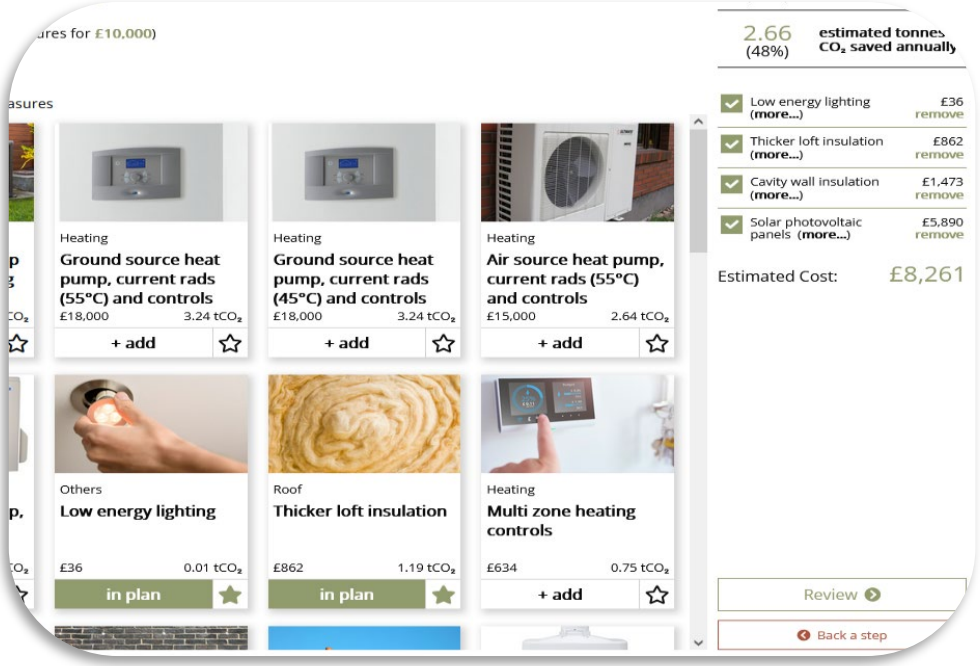
**Plan Builder**
Get started with a plan for free

**Whole House Plan**
An in-depth personalised report on your home and energy use

**Retrofit Coordinator**
A skilled expert who will help guide you in your decisions, resolve problems, and guide homeowners through the build process

# Plan Builder

- **Free online tool** - giving Oxfordshire residents an idea of possible energy efficiency measures for their home, based on existing data about their address and housing type
- Estimates energy, cost, and carbon savings as well as project costs
- If user is happy with plan, they submit it, and Cosy Homes gets in touch to discuss details




cosy homes Plan Builder

# Case study: East Oxford terrace

- House: late 1800s terrace with solid brick walls
- Lis and Sarah were very conscious of the environment, and cutting carbon emissions was the main aim of their retrofit

## Measures:

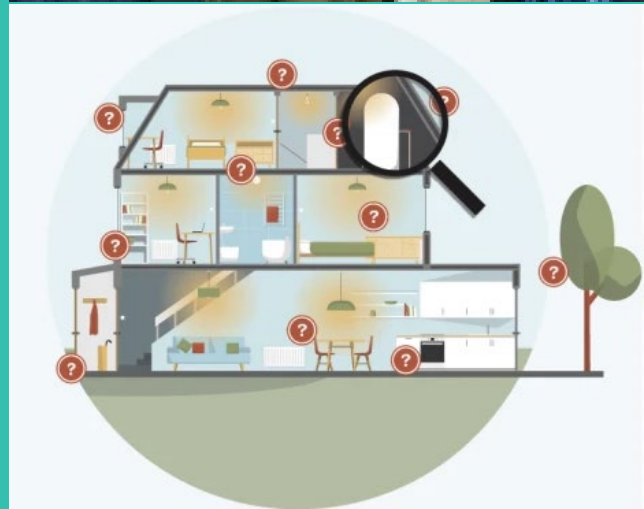
- 2 kWp solar PV array
- Traditional timber sash windows with double glazing
- Air source heat pump
- Internal wall wood fibre insulation (IWI)
- Cavity Wall Insulation (CWI)
- Loft insulation on the main roof with a controlled ventilation system
- Flat roof insulation on the backroom extension
- Underfloor heating and insulated floors

## Savings:

- 59% estimated savings on energy bills, 68% reduction in $CO_2$ emissions: 3.39 tonnes of $CO_2e$ are saved every year

# Who is this service for?

- **Homeowners** who want to reduce their energy bills, cut carbon emissions, and have more comfortable home
- Residents with older or more complex homes benefit greatly from our ‘Whole House Plan’
- Those in the ‘able-to-pay market’ who are ready to start installing energy saving measures, with an overall estimated cost above £20,000



# Other support

# Other support to consider

- Oxford Church Buildings
  - Oxford Diocese Energy Audits Programme
- Community Energy England
  - ‘How to’ do community energy
- CAG Oxfordshire
  - www.cagoxfordshire.org.uk

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# Thank you!