

# Haringey Green & Save

Fairing the energy crisis: for Community  
Buildings

# Agenda

Introductions & refreshments		6pm
Welcome & Solar at Muswell Hill Methodist Church	Brian Simpson	6.15pm
Reducing Energy Demand	Dermot Barnes	6.25pm
Generating Clean Energy	Nadia Smith	6.35pm
Solar panel tour & Networking break		6.45pm
Financial Tips & Tricks	Beth Kay	7.15pm
Community Led Initiatives	Cara Jenkinson	7.25pm
Participatory Session		7.35pm
Closing Remarks	Sydney Charles	7.50pm



# Welcome to Muswell Hill Methodist Church





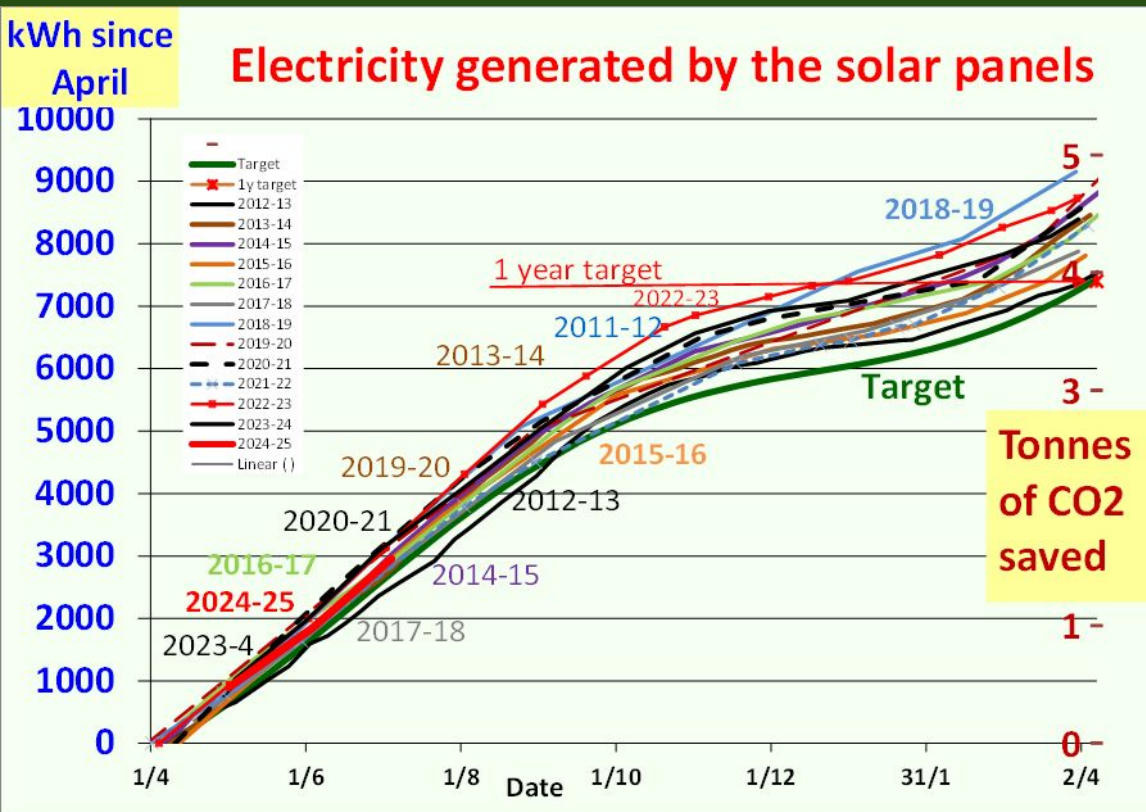
# Solar panels



- 39 solar panels installed in 2013
- 7.6kWp



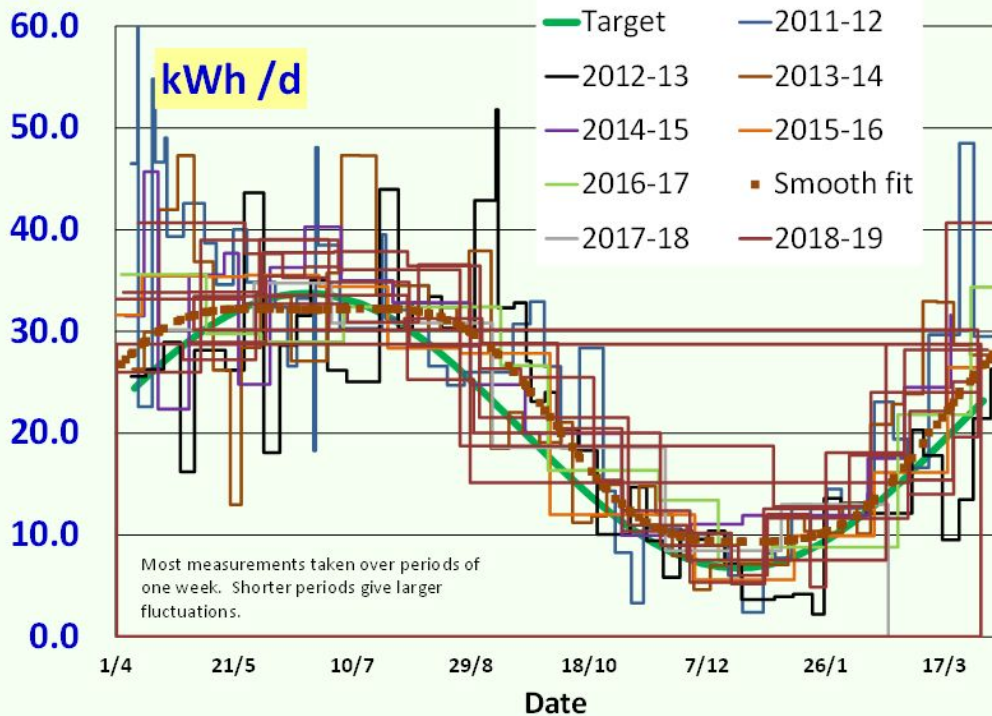
# Annual generation of electricity



- ~8000kWh/y
- Saving 4-5 tonnes/y CO<sub>2</sub>
- Value ~£2550/y

# Summer and winter

## Electricity generated by the solar panels



- We are able to use about half the electricity generated

# Other features of the site



Secondary glazing



Air-to-air  
heat pump





# Other features of the site



Rewilding some lawns



Community garden

# Air-to-air heat pump in Holly room

NETZEROHARINGEY  
2041



COMMUNITY CARBON FUND

2022-2025

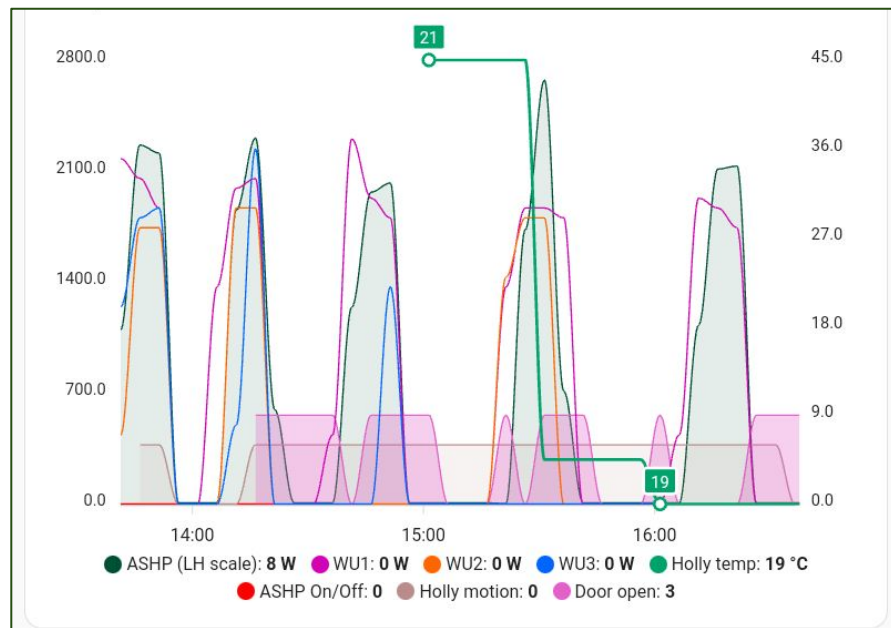
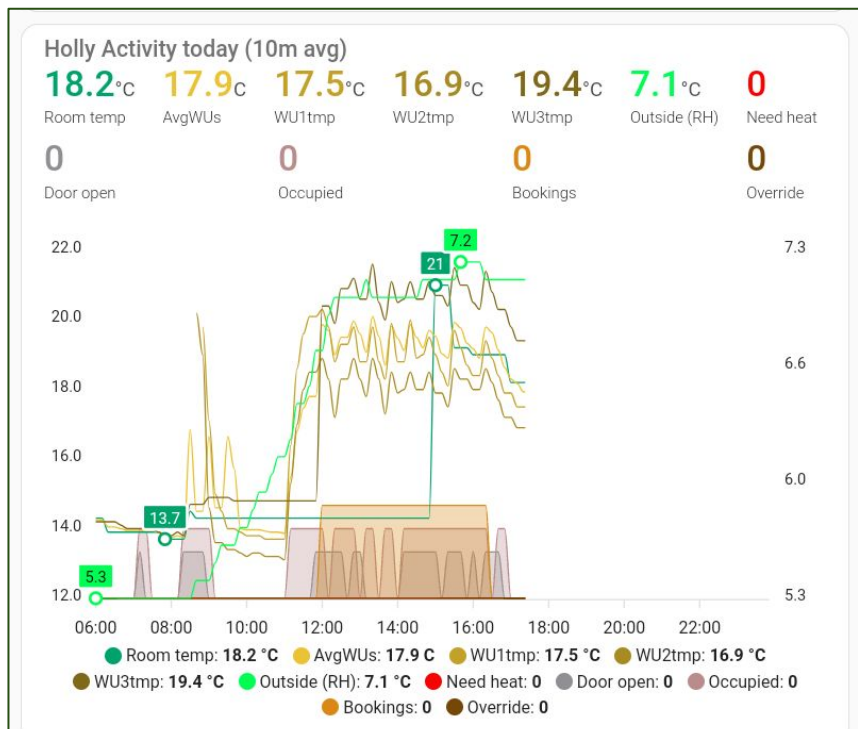
Haringey  
LONDON



**EN10ERGY**  
CLEAN COMMUNITY ENERGY



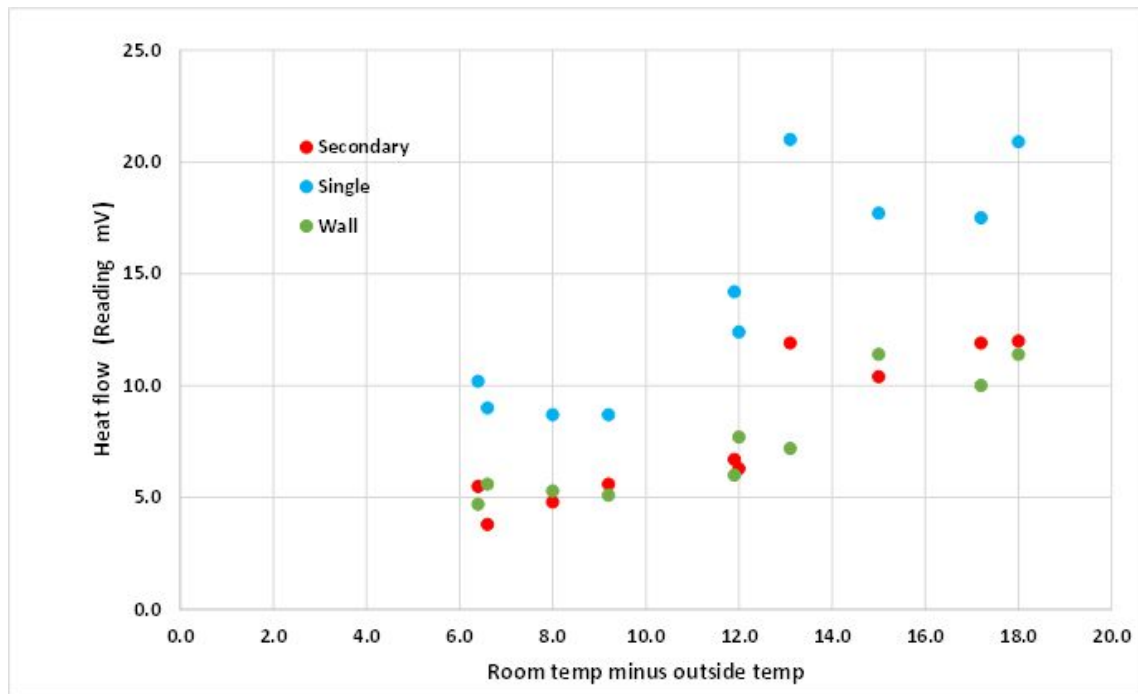
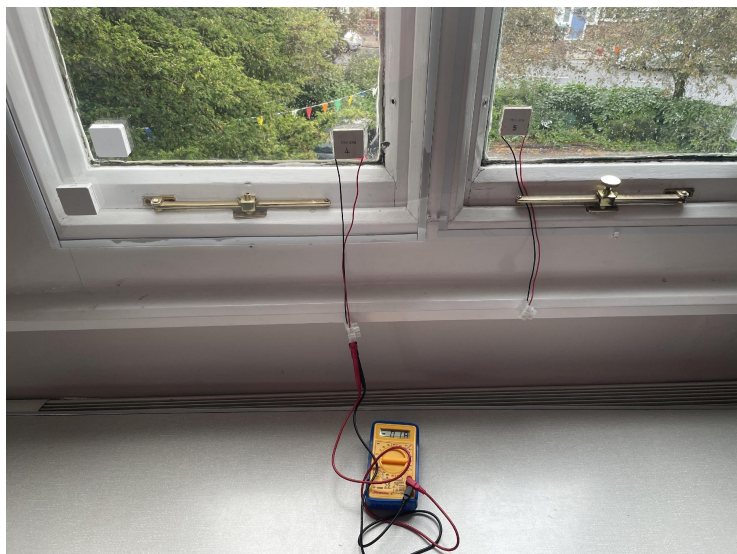
# Internet control using Home Assistant software



**Radiator valves**



# Monitoring temperatures and heat flow





Muswell Hill  
Methodist Church



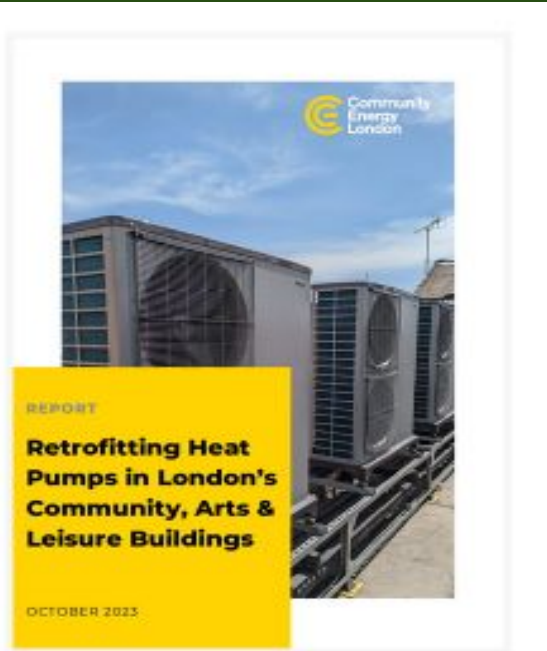
# Reducing Energy Demand

- Context and Scene Setting...from global to local
- NZC & principles of energy use in community buildings
- Heat loss principles - a very quick introduction
- Retrofit principles and approaches
- Q&A

Dermot Barnes,  
Chair, En10ergy



# Context & Scene Setting

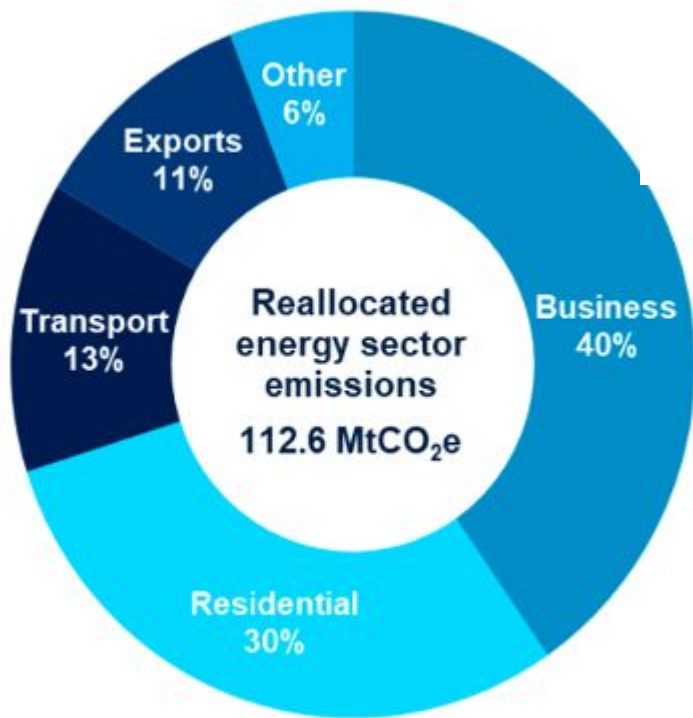


## Retrofitting Heat Pumps in London's Community, Arts & Leisure Buildings

### Summary of the Potential

- The dataset used identifies 14,667 'Community, Arts & Leisure Centre' (CAL) buildings in Greater London
- 11% of these buildings are classed as 'large size' and make up half of the total heating demand of the CAL sector
- 68% of these CAL buildings use gas as their main source of heating and 27% use electricity
- Decarbonisation of CAL buildings can play a positive contribution in reaching London's net-zero energy target since they account for 8% of all heat demand in the non-domestic sector
- Leisure Centres have the most heat demand (and floor area) of any individual subcategories within CAL community buildings at 37%.
- Museum, galleries & libraries / Theatres, concert halls & cinemas by number are the lowest, yet account for 36% of heating demand in the CAL sector
- The majority of building stock is medium size with 75%, and close to half

# The NZC Journey



- 2.6m heat pumps by 2025
- Additional 912 mw solar PV
- Extensive retrofit
- Thermal Storage
- Smart demand-supply side matching

## 3 INEVITABLE

### STEPS:

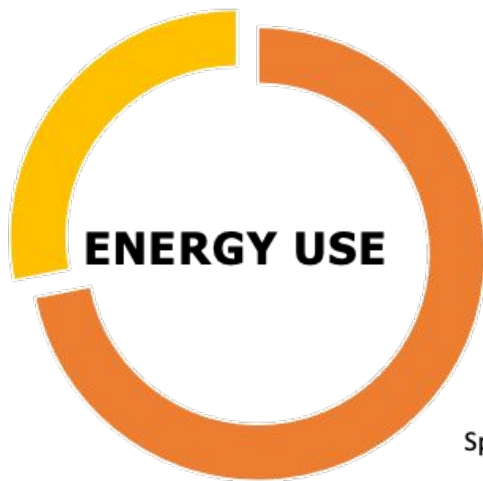
- Gas Grid disconnection
- 60-65% demand reduction
- Optimised renewable generation

# The NZC Journey

Average domestic energy consumption

**17-20%**

Light, Cooking,  
Large Appliances,  
Small Appliances



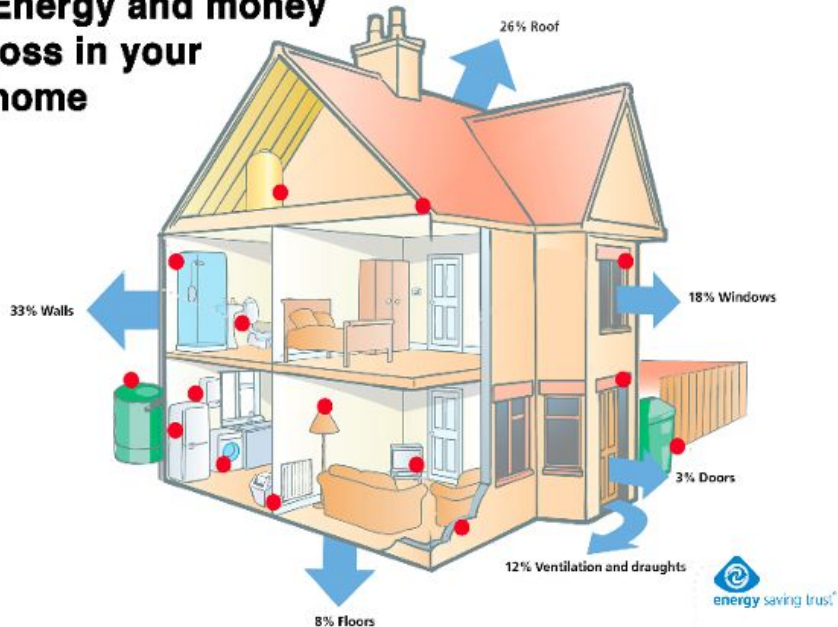
Space Heating and  
Hot Water

**80-83%**



# Energy Efficiency

## Energy and money loss in your home



## QUICK WINS

- Heating/Cooling System controls
- Loft Insulation
- LED Lighting via Community finance
- Solar PV via Community finance
- Window treatments
- Floor insulation

1. TAKE THE LONG TERM VIEW AND
2. COORDINATE WITH PLANNED MAINTENANCE/ BUILDING PROJECTS FOR BIG £ SAVINGS

# The NZC Journey

## ASHP/GSHP THE END OF GAS

Coefficient of performance-Gas boiler 1kWh=.9kWh

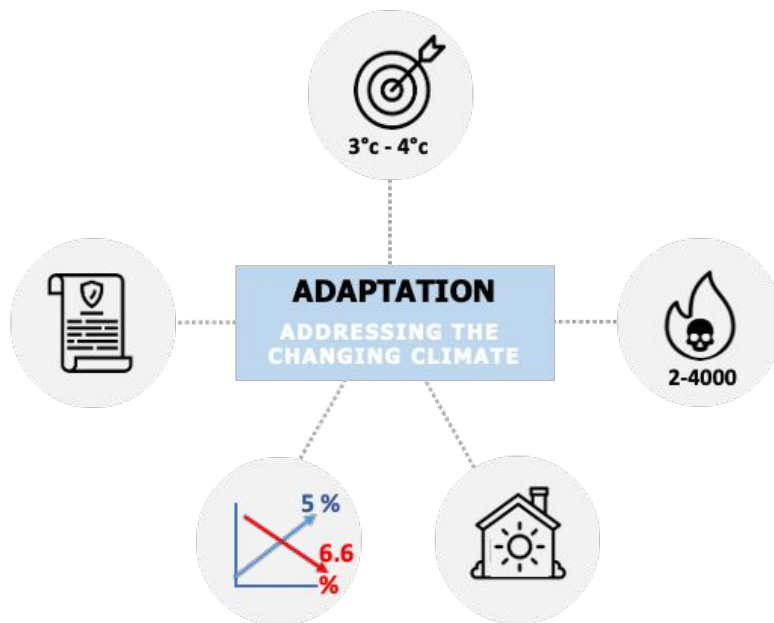
Coefficient of performance-Gas boiler 1kWh=.2.8 to  
3 kWh

**BUT ELECTRICITY IS  
BETWEEN 4 AND 5 x  
MORE PER kWh  
Recent Figures  
£.3004/kWh Electricity  
£.6.5/kWh Gas**



# The NZC Journey

## COPING WITH THE NEW NORMS: ADAPTATION & AFFORDABILITY CHALLENGES



Source: XCO2 Energy Ltd



# Retrofit Principles

## PROCESSES AND CONTRACTORS



### PAS 2030

#### INSULATION

- SWIGA-Solid Wall Insurance Guarantee Agency
- INCA Insulated Render and Cladding Association

#### WINDOWS

- CERTASS or FENSA

#### RENEWABLES

- MCS
- RECC

Manufacturer accredited and recent training approved. Complaints registers

### Basic Principles

3 valid quotes from a field of at least 6

- Measure by measure itemized pricing
- JCT Minor works(or similar) formal contract with agreed payment schedule, time penalties & retentions.
  - Take up 3 detailed references.....visit them...from a field of at least 6..
- Check adequacy and currency of Public Liability and prof' Indemnity insurances

# Generating Clean Energy & Practical Solutions

Nadia Smith, Project Development Officer, En10ergy

# What I'll Cover

- LED Lighting (Reducing Energy Demand)
- Solar PV and Battery Storage (Generating Clean Energy)
- Case Studies
- How community energy projects work

# LED Lighting

## Why & How

### Why:

- Carbon savings
- Electricity bill savings
- Aesthetics refresh
- You're doing it anyway (slowly)
- Building users impacts
  - Trip hazards reduced
  - Headaches
  - Disabled users health benefits



# LED Lighting

Why & How



# LED Lighting

## Why & How

### How it works:

- Retrofit assessment & specification
  - Site visit
  - 1-2 months specification pack & quotes
- Legals signed (2-4 weeks)
- Share Offer Fundraise (grouped with other sites)
- Manage installation (1-3 weeks)

### FAQs:

- Emergency lighting included
- 1 month settling in period
- Stock of spares

# LED Lighting

LED Lighting at South East London  
Community Buildings

## Case Study

- 5 community buildings
- 2655 lights (531 per site)
- Saving £19,000 per annum total



# £3,800

saved on energy bills annually



# 9.4T CO<sub>2</sub>e

Carbon emissions saved annually

# Greenwich West Community & Arts Centre



# Greenwich West Community & Arts Centre



# Greenwich West Community & Arts Centre





# Solar PV

## Why:

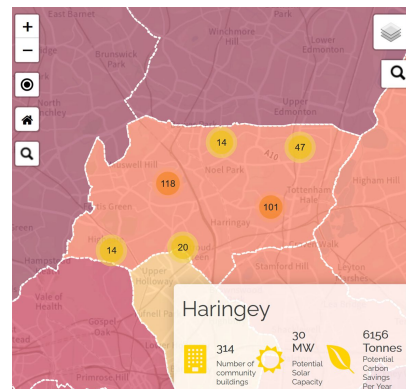
- Labour's manifesto: Triple solar installation by 2030
- Carbon savings
- Energy bill savings
- Fixed electricity price for 20 years
- Educational resource

## Where:

- Good condition roof
- Large & Un-shaded
- Flat, pitched, or any other type can work
- Space for inverter
- High daytime electricity consumption

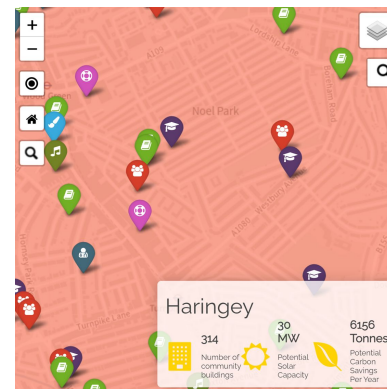
# Solar PV

## Solar Potential for the London Boroughs



High level potential for Community buildings around London  
<https://map.communityenergy.london/potential/>  
- from **Community Energy London**

Zoom in or analyse the data. (additional access for Community Energy London Member groups.)



<https://map.communityenergy.london/potential/>

# Solar PV

## How it Works

- Desktop survey (1 day)
- Site visit (1 day)
- Feasibility assessment and quotes (2-4 weeks)
- Legals signed (2-4 weeks)
- Share offer (grouped with other sites) (2-3 months)
- Installation (1-2 weeks)

## FAQs

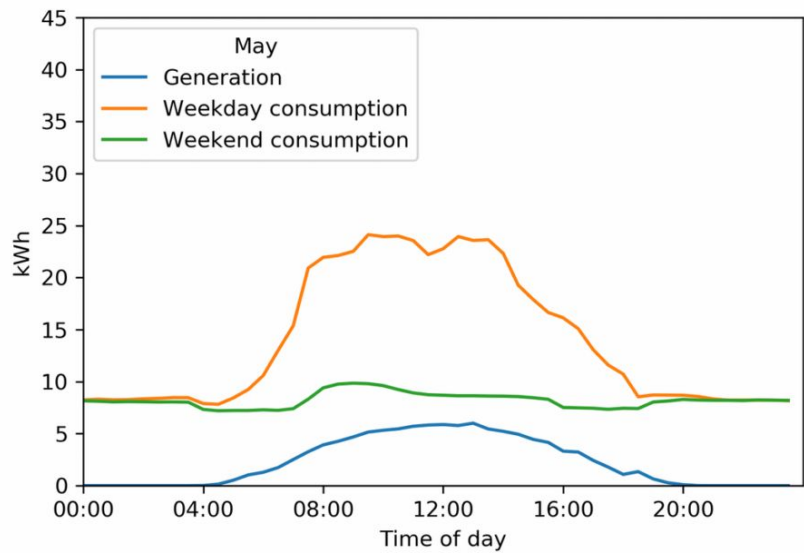
- How big is the inverter?
- Will you put in a battery?
- Do i still need my energy supplier?
- Is my roof strong enough?
- What if the panels stop working?
- Do I need to be a freeholder?

# Case studies

Fortismere School

30kWp







# £34,000

Total installation cost

# 9.8T CO<sub>2</sub>e

CO<sub>2</sub>e saved annually

# Wider benefits of solar

E.g. educational resource, net zero targets, peak generation ideal for charging vehicles. How do they fit into your decarbonisation plans for the future?



<https://letsgozero.org/>



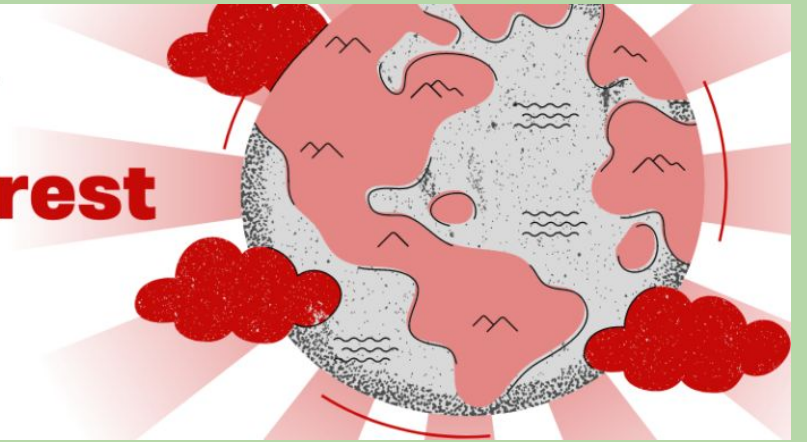
<https://energysparks.uk/campaigns/find-out-more>





# Community Energy Register your interest

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Fill out our short form  
online, or speak to us...

# Solar Panel Tour

Back at 7.10pm





# Haringey Community Collaborative

Developing and strengthening  
Haringey's VCS

**All Staff Meeting – July 2024**

Beth Kay, VCS Capacity Building Manager



# Supporting the Voluntary and Community Sector (VCS) in Haringey

## 1:1 Support

- VCS groups can contact us to request 1:1 support via website contact forms, phone call, or via email
- Arrange meetings with VCS Capacity Building Manager for tailored support (e.g. support with a funding application, CIC registration process, or drafting a volunteer role description etc.)

## Regular Group Support

- Monthly VCS Forums and other 'community of practice' meetings
- Training, Capacity Building, and Development Workshops (in-house and external providers)
- Developing resources for local VCS (e.g. document templates, guidance, best practice)
- Volunteer Centre



# Environmental sustainability: support for VCS organisations

National Council for Voluntary Organisations (NCVO) provide:

- **Guidance and templates** to help charities divest away from fossil fuels
- **Resources and explanations** about climate change, environmental and financial terms.
- **Communications pack** with information, templates and graphics to help charities promote their support for the NCVO environmental campaign
- [NCVO Environmental Campaign \(website link\)](#)

The logo for the National Council for Voluntary Organisations (NCVO) is displayed in a bold, purple, sans-serif font. The letters are stylized, with the 'V' being particularly prominent and angular.

# Environmental sustainability: Funding support



CITY BRIDGE  
FOUNDATION



[Environment and sustainability: creating a greener London](#)



Funding climate action in London, and decarbonising charities' operations and spaces

## Grants



[Revenue funding: making London a greener city for all](#)



[Eco Audits](#)



[Capital funding for building works](#)



Haringey  
Community  
Collaborative

VCS  
Forum

Thursday 25 July 2024  
10am to 12noon

Mind in Haringey  
Station House  
73c Stapleton Hall Road  
N4 3QF

Haringey Community Collaborative invite you to our July VCS Forum

- Information and learning session on funding and bid writing.
- 'Haringey 4 Communities' funding portal demo.
- Information about affordable business loans for Haringey businesses and CICs.
- Using the 'Plinth' platform AI Grant Application tool to improve your applications, highlight your impact, and save you time.

All Haringey Voluntary and Community Sector groups and organisations are welcome.

Join us to network, learn, and discuss. Refreshments provided.

Email Beth to confirm your place:  
beth.kay@haringeycollaborative.org



Climate Action Fund - Our Shared Future

Funding > Funding programmes >  
Climate Action Fund - Our Shared Future

The Climate Action Fund is our commitment to help communities tackle climate change. We're supporting communities to be environmentally sustainable.





# Environmental sustainability: Funding support



Information event at St Luke's Community Centre  
Friday 19<sup>th</sup> July at 2 – 4pm

**NETZEROHARINGEY**

**2041**

**COMMUNITY CARBON FUND**

**2022-2025**

Illustrations include: a house with a leaf, a factory with solar panels, and a blue van with a leaf.





# Environmental sustainability: support for VCS organisations

Haringey Council factsheets to support local businesses and VCS organisations to become more sustainable, aware of environmental legislation, and where to access free support to go green – for example:

- **Energy Factsheet** – reducing energy use, tax reliefs on purchases of energy efficient equipment
- **Write an Environmental Policy Factsheet** – guidance on writing a policy, details of Haringey Council's environmental requirements if you wish to tender for a contract to supply goods or services to the council
- **Carbon Literacy Training** for organisations and community groups



# Environmental sustainability: support for VCS organisations

Haringey 4 Community



*Haringey 4  
Community  
demo at July  
VCS Forum –  
[RSVP here](#)*

Home Search Browse Local support News Help & advice

REQUIRE FUNDING FOR

52 items selected

Search items

- Arts, Culture & Heritage
- Children & Young People
- Community Development
- Crime, Rehabilitation & Community Safety
- Education, Employment & Training
- Energy
- Environment
- Health & Social Welfare
- Housing
- International Cooperation

ELIGIBLE EXPENDITURE

- Business Planning and Development
- Conducting Research
- Costs Associated with Maintaining Buildings
- Costs Associated with

**FUND** [Groundwork - One Stop Community Partnership Programme](#)  
Groundwork

**Upcoming deadline**

Select this result

Grants are available through a partnership programme to support not-for-profit organisations with local community projects that address social welfare and environmental issues.

The programme is designed to create a partnership of support to community groups, operating within two miles of a One Stop store, who are working to:

- Tackle food poverty.
- Support the vulnerable.
- Support the elderly.
- Support low income families.
- Running youth sports teams.
- Reducing/recycling waste
- Improving the environment

Status	Maximum value	Current deadline
Open for Applications	£ 1,000	26/07/2024



# Contact Information

## How can VCS organisations reach us?

### Website Contact Forms:

[Haringey Community Collaborative - Public Voice](#)

[Haringey Community Collaborative - Mind in Haringey](#)

### Subscribe:

[Weekly news bulletin](#)

### Email:

[hello@haringeycollaborative.org](mailto:hello@haringeycollaborative.org)

[beth.kay@haringeycollaborative.org](mailto:beth.kay@haringeycollaborative.org)

**Phone:** 020 3794 1168



# Community Led Initiatives

Cara Jenkinson,  
Vice Chair, En10ergy

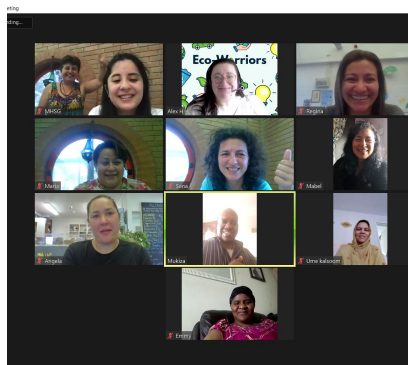
# Who is En10ergy

How we were set up, our mission & values





# Community Benefit





# What we do

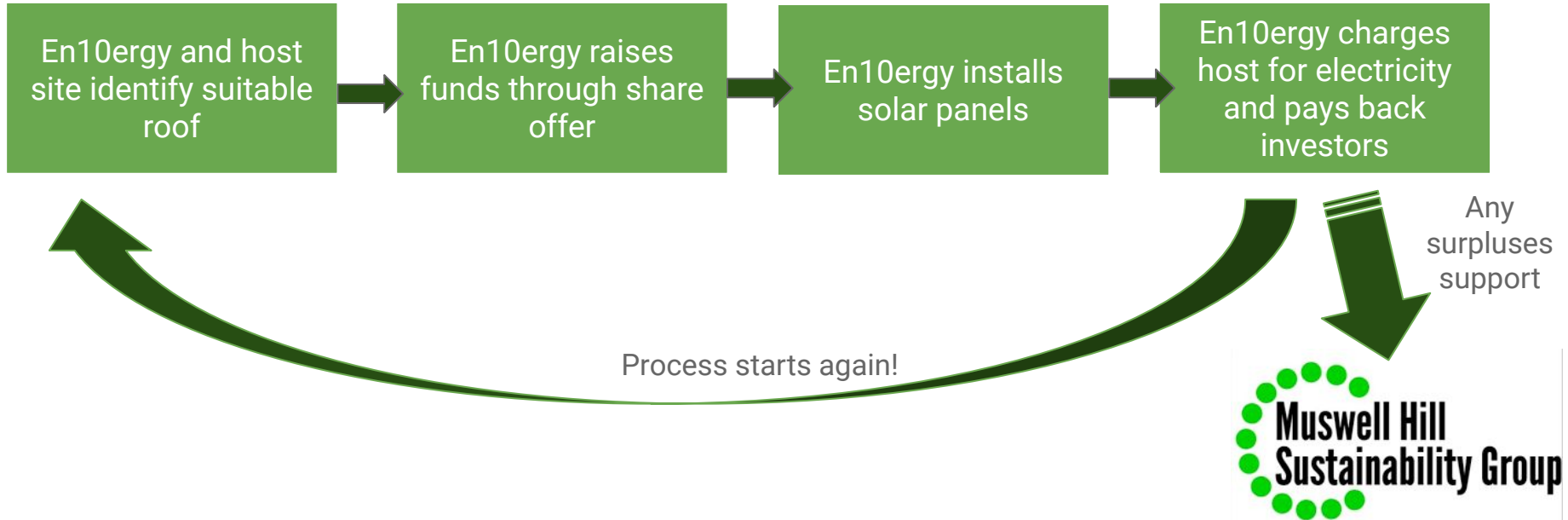
## Solar & LED Projects

- Solar PV and/or LED lighting
- On the right roof (shading, roof condition, size)
- Financial viability (how much electricity used on site, what lighting is being replaced)

## Muswell Hill Sustainability Group Projects

- Green Open Homes events
- Talks
- Information sharing

# How it works



# How it works

We're part of a national network

# Community energy in the UK 2023

## ORGANISATIONS

### COMMUNITY ENERGY ORGANISATIONS IN THE SECTOR



**123**

organisations  
providing  
energy advice

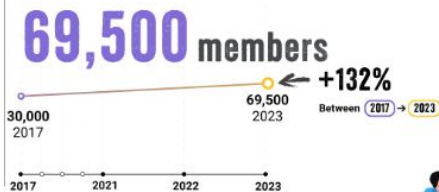
**111**

organisations  
providing low  
carbon transport

**319**

organisations  
providing energy  
efficiency retrofit

### TOTAL MEMBERS OF COMMUNITY ENERGY ORGANISATIONS



## LOCAL ECONOMY

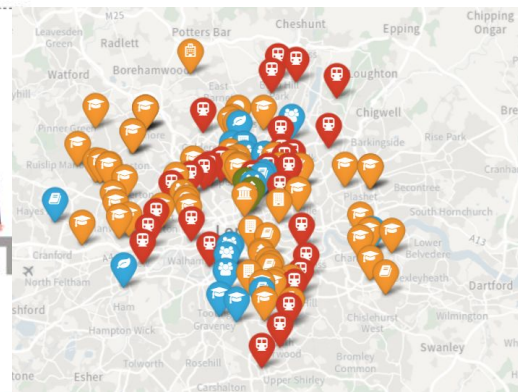
### FINANCIAL CONTRIBUTION TO LOCAL ECONOMY

**£12.9** million  
contributed

to local economies from  
organisational expenditure and  
community benefit funds

### INVESTMENT RAISED FROM LOCAL COMMUNITIES

**£6.4** million investment raised  
from communities in 2023



**EN10ERGY**  
CLEAN COMMUNITY ENERGY

# Key Information

## Important points to note:

- Not all sites feasible
- Need to work **with** us (volunteer time needed)
- Roof lease/licences are **long term** agreements
- Not a credit agreement

## Benefits of working with CE group (over commercial):

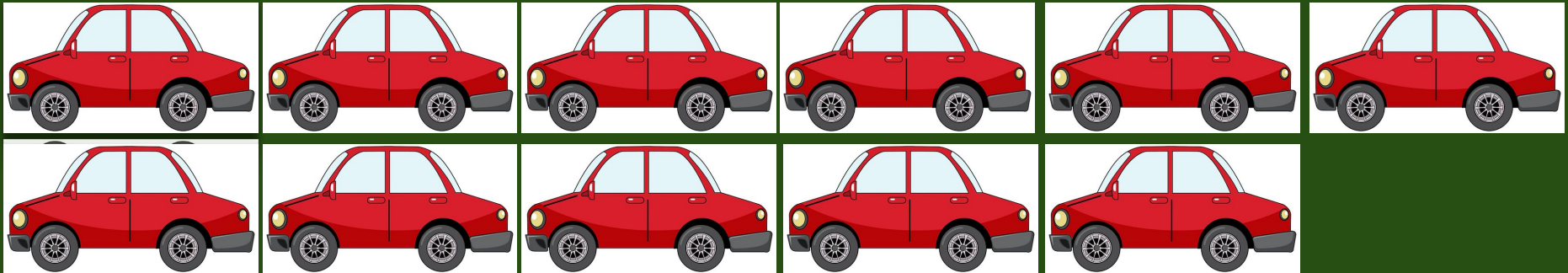
- Asset management taken care of
- Fixed energy prices for 10-20 years
- We apply for grants
- Not for profit - surplus goes to our community benefit fund

# £11,000

£ Saved this year for community buildings

# 16 T CO<sub>2</sub>e

CO<sub>2</sub>e saved this year for community buildings



Equivalent to 11 cars taken off the road





We have a track record of  
delivering community  
energy with real local  
benefits

# Participatory session

# Closing remarks

Sydney Charles, Vice Chair, En10ergy

# Thank you

Contact details:

Nadia Smith - Project Development Officer

[nadia@en10ergy.org.uk](mailto:nadia@en10ergy.org.uk)

[www.en10ergy.org.uk](http://www.en10ergy.org.uk)