

Welcome to the Retrofit Webinar Series:

Making homes warmer, cheaper to heat and more energy efficient

An Insight into Home Retrofit



Time	Theme	Speaker
12.30	Session begins Welcome & Green Homes Grant Review	Abigail Roberts Sustainability Officer, Camden
12.40	Making Retrofit Happen Why Retrofit?	Akta Raja Founder, Enhabit
12.55	Insight into Home Retrofit Case Study	Sanya Polescuk Founder, Sanya Polescuk Architects
1.05	Questions & Answer Session	All
1.15	Session ends Close	Abigail Roberts Sustainability Officer, Camden

Tuesday 15th December 2020

Green Homes Grant Vouchers



Abigail Roberts, Sustainability Officer

What are the vouchers?

- Homeowners and landlords in England can apply for a voucher towards the cost of installing energy efficient and low-carbon heating improvements
- Vouchers for **homeowners** and **landlords**
 - Up to £5,000 of funding
 - 2/3rd of funding for work
- Low-income vouchers for **homeowners**
 - Up to £10,000 of funding
 - Fully funded
- All work to be completed by ~~31st March 2021~~
 - The government has since extended the scheme and all works must now be completed by **31 March 2022**.

What measures can be installed?

- **Primary measures** must be included as part of a voucher application
 - **Insulation** (including: solid wall; cavity wall; under-floor; loft)
 - **Low-carbon heat** (including: heat pumps and solar thermal)
- If **primary measures** are installed then funding for **secondary measures** can be included.
 - **Windows and doors**
 - **Heating controls**
- Equal amount will be paid for Primary/Secondary measures up to full grant amount.

Example voucher spend

	Homeowner and landlord voucher (£5,000)	Low-income voucher (£10,000)
Floor insulation (Primary measure)	£2,400	£2,400
Primary GHG voucher contribution	£1,600	£2,400
Secondary Glazing (Secondary measure)	£4,000	£4,000
Secondary GHG voucher contribution	£1,600	£2,400

How can I apply for the vouchers?

<https://www.simpleenergyadvice.org.uk/pages/green-homes-grant>

Check you are eligible

- Grant eligibility checker available to see what level of funding you could access

Think about what you want to do with you property

- Consider the whole house and future renovation plans

Get quotes for the work

- Ideally 3 quotes – check the quality of your installers

Apply and await confirmation

- Simple Energy Advice website

Measures installed (before March 2022)


- Installer applies for funding when works complete, you pay the rest

Finding a tradesperson

<https://www.simpleenergyadvice.org.uk/installer-search>



<https://www.trustmark.org.uk/find-a-tradesman>


Please visit [this page](#) for information related to the Green Homes Grant (GHG).



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Please enter your address

Enter the Company name, if known

Select Trade or Work Area

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Key facts and information

- Check the scheme Terms and Condition before applying for funding.
 - <https://green-homes-grant.service.gov.uk/customer-terms-and-conditions>
- Risk if the works cannot be completed with the voucher timescales
- Contractors are inundated with queries and jobs
- Find out about what measures you can install
 - <https://www.camden.gov.uk/air-quality-pollution-energy>
 - www.cse.org.uk/resources

Camden support

- Grants and support for residents
 - <https://www.camden.gov.uk/energy-efficiency-grants>
- It is the applicant responsibility to determine whether government funding can be matched with Camden's grants.
- Camden Retrofit Webinar Series
 - <https://www.camden.gov.uk/energysavingtips#zuua>
- Freephone Green Camden Helpline, call for any further queries or support:
0800 801738
Mon-Fri 9am-5pm

Making retrofit happen

Akta Raja, Enhabit



WHY RETROFIT

COST

- Homes that have been retrofitted can cost up to 75% less to heat and power. Done right, the maintenance and management costs fall right down

COMFORT

- Homes are warm in the winter, cool in the summer and with fresh air all the way through
- Added insulation and triple-glazing makes your home much quieter, and more peaceful
- Have a look at this blog <https://thebox-haus.weebly.com/posts> for some insights into the benefits of more control over your building

CARBON

- Reduced Carbon emissions by up to 90%, especially as using an existing building
- These Carbon savings are repeated, year-on-year, so they are high quality savings



IT'S EASIER WHEN YOU'RE RENOVATING ANYWAY

Lena Gardens

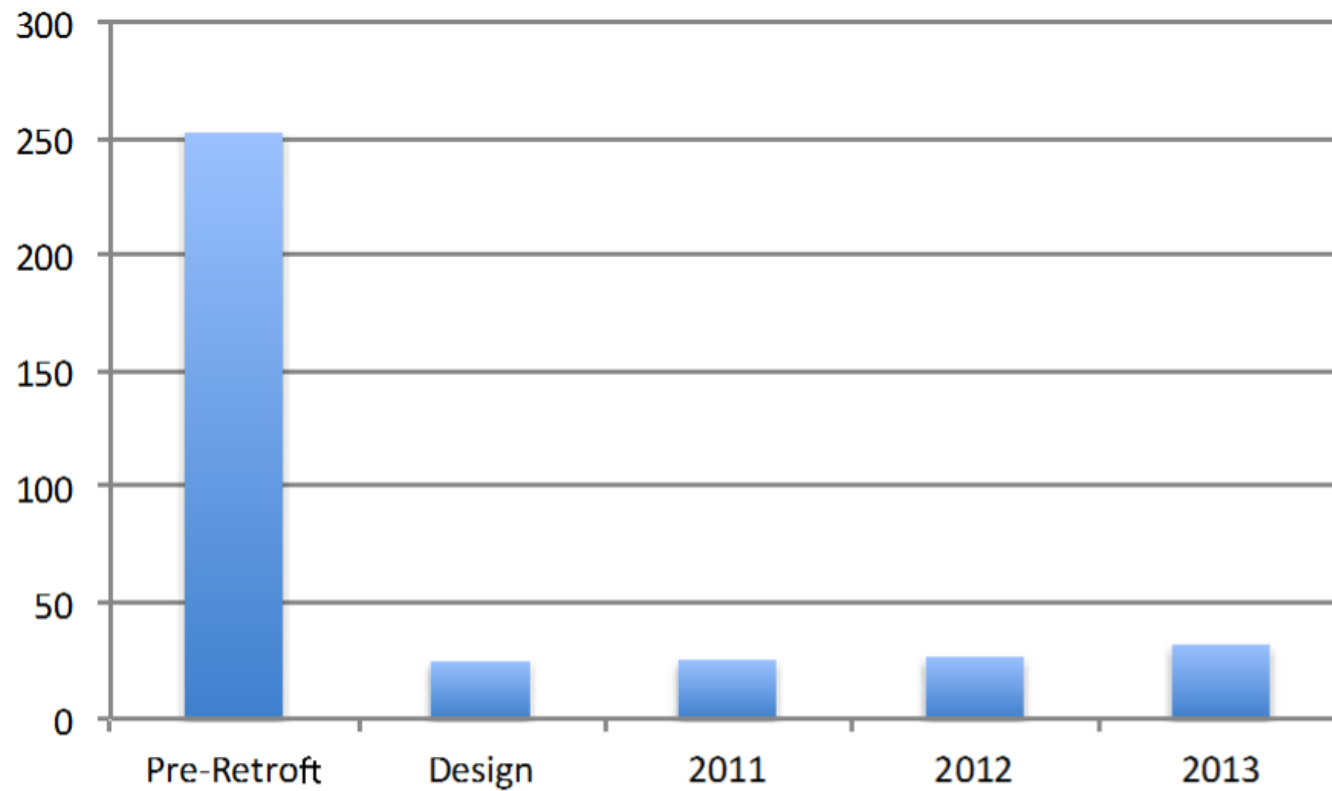


- This is our first ever project, and the UK's first ever Passivhaus retrofit
- It underwent what's known as a deep retrofit
- It costs £300/year to heat and power, in total, with 6 occupants.
- The Carbon emissions were reduced by 95% when compared to the unimproved house
- It's an opportunity to make massive savings
- Consequence of not doing this is that the carbon is locked in

Measures we included



What happened



This is the annual heating demand in kWh/m²

Canonbury

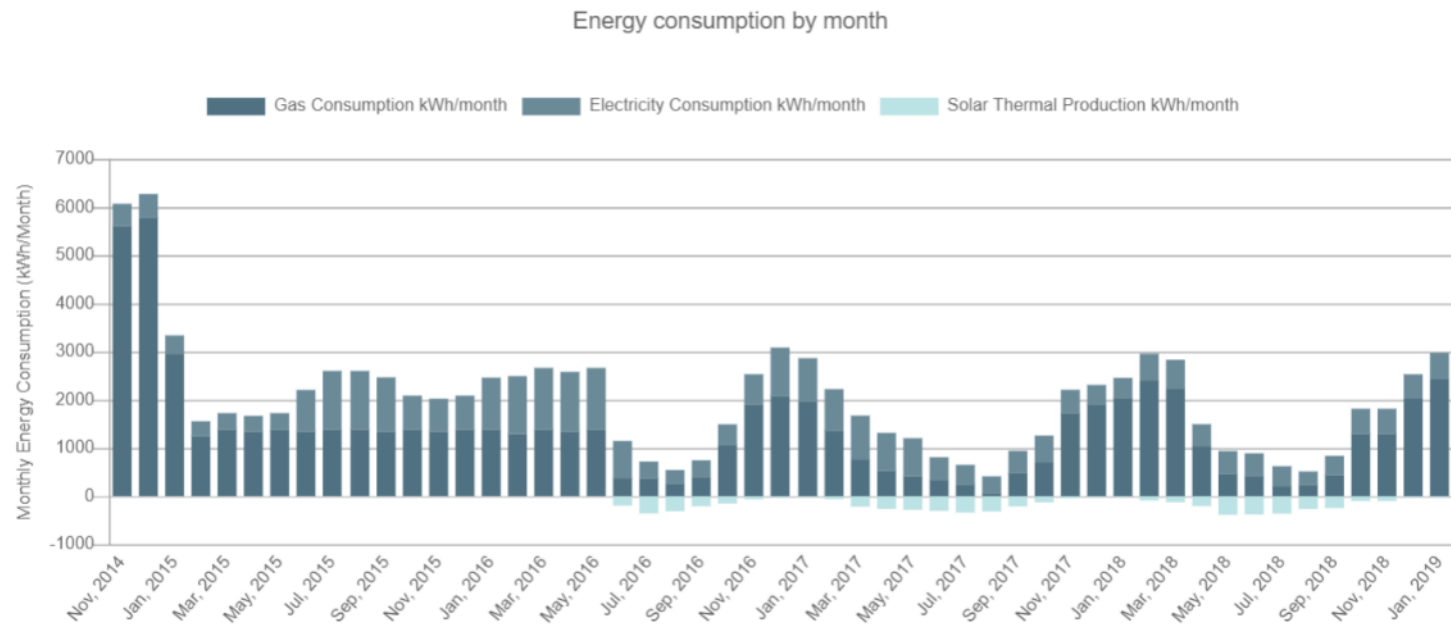


- Another old Victorian Terrace
- The house was cold and draughty
- There was lots of noise from the street outside
- This one didn't go as far as Lena Gardens, but still has 65% reduction in Carbon emissions

Measures we included



What happened



A modern living room interior with a white sofa, a coffee table, and various decorative items like plants and framed art. The room is brightly lit and has a clean, minimalist aesthetic. The text "WHAT IF YOU'RE NOT RENOVATING?" is overlaid in large, white, bold letters.

WHAT IF YOU'RE NOT RENOVATING?

Some easy wins



- Work out how your home is performing
 - Look at your latest EPC (or get a new one). Note that your landlord needs to comply with minimum levels
 - Arrange an energy survey
 - Check your consumption (not the same as your bills)



- Get on top of the basics
 - Is your loft insulated?
 - Can you fix the draughts?
 - Have you switched to low energy lighting?
 - Do your heating controls work?
 - Can you put some solar on your roof?
 - Are you switching your appliances off when they're not used?



An Insight into Home Retrofit

Case Study:

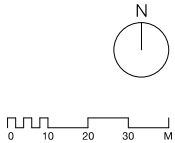
Rosslyn Hill,
Belsize Park, NW3 5UL



Sanya Polescuk,
Sanya Polescuk Architects



Site Location



LOCATION PLAN

Before Retrofit

Front of property



Kitchen



Living area

Before Retrofit

Rear bedroom 1



Rear of property

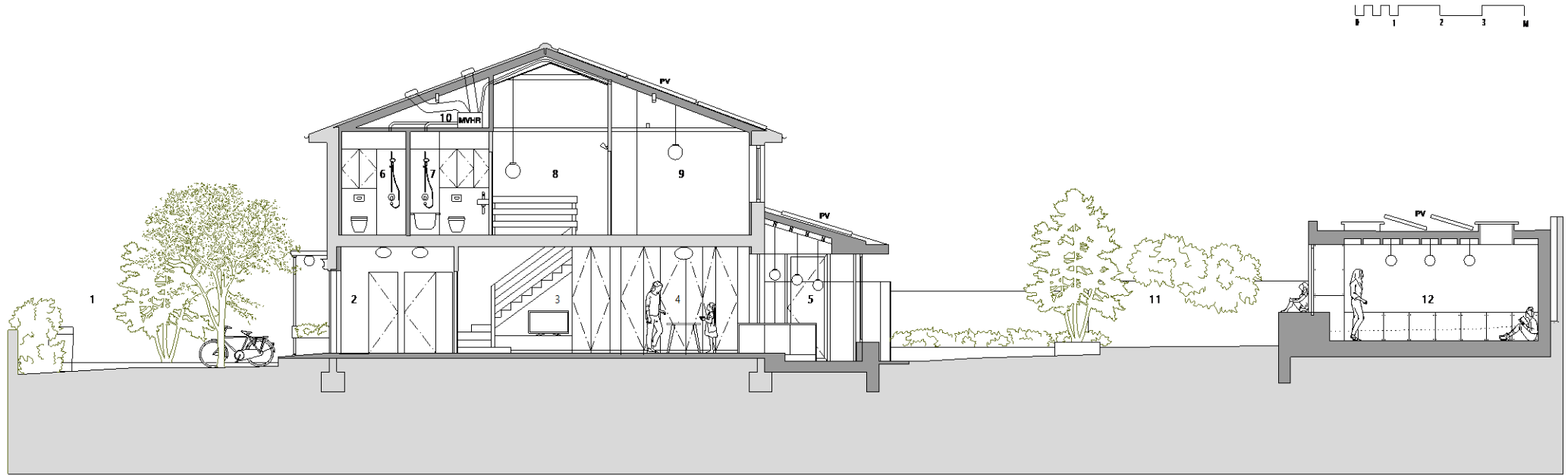


Rear bedroom 2



Loft

Selection Copy

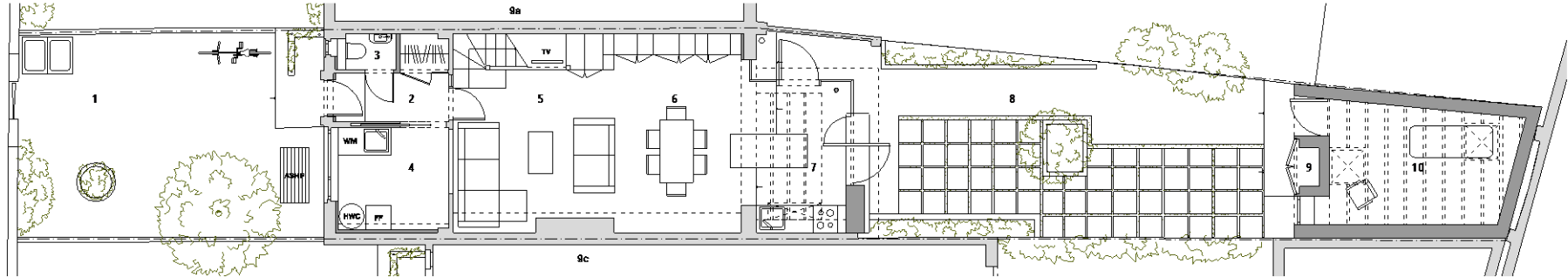
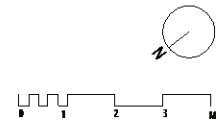


SECTION AA

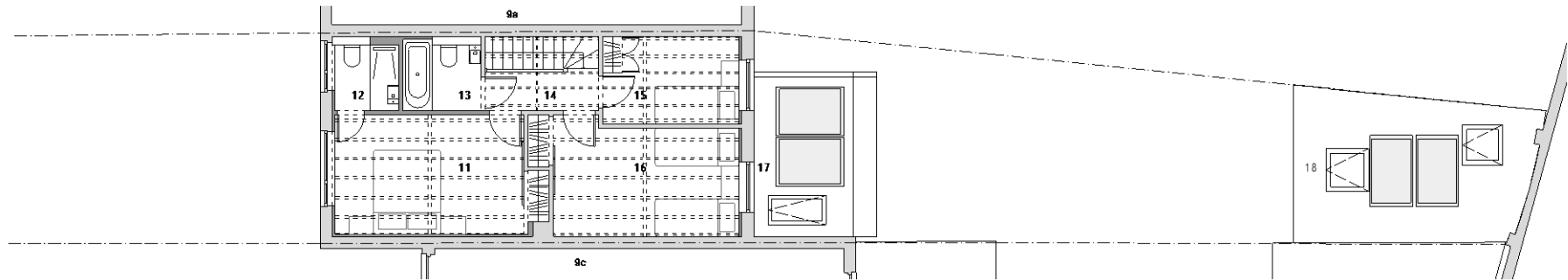
KEY:

- 1. Front Garden
- 2. Hall
- 3. Reception Room
- 4. Dining Room
- 5. Kitchen
- 6. En-Suite
- 7. Bathroom
- 8. Landing
- 9. Single Bedroom
- 10. MVHR
- 11. Rear Garden
- 12. Studio

Plans together



GROUND FLOOR PLAN



FIRST FLOOR PLAN

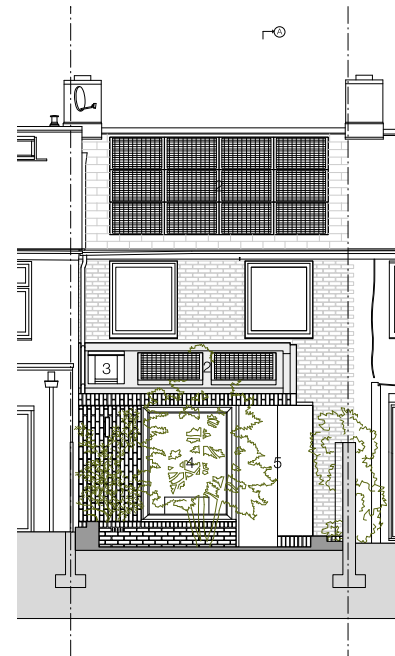
- KEY:**
- | | |
|-------------------|--------------------|
| 1. Front Garden | 11. Master Bedroom |
| 2. Hall | 12. En-Suite |
| 3. WC | 13. Bathroom |
| 4. Utility Room | 14. Landing |
| 5. Reception Room | 15. Single Bedroom |
| 6. Dining Room | 16. Double Bedroom |
| 7. Kitchen | 17. Extension Roof |
| 8. Rear Garden | 18. Studio Roof |
| 9. Garden Store | |
| 10. Studio | |

Elevations together

0 1 2 3 M



FRONT ELEVATION



REAR ELEVATION

KEY:
1. ASHP Enclosure
2. Solar Panels
3. Skylight
4. Pivot Window
5. Frameless Glazing

During Retrofit



Insulation



During Retrofit



Insulation & open up



Open up



Open up

During Retrofit



Reclaim & reuse



Generate energy



After Retrofit



Front



Kitchen



Living area

After Retrofit



Rear of property



Rear bedroom



After Retrofit



Ventilation

Question & Answer Session

Are there grants for homeowners to retrofit their homes?

I'm a leaseholder of a flat (Camden freeholder) and I need to insulate my flat. Do Camden apply for the grant or do I?

What about changes in conservation areas or to listed buildings?

Planning Guidance

The Council has prepared a number of documents that provide advice and guidance on how the planning policies in the Local Plan will be applied – these include:

- [Camden Planning Guidance](#)
- Conservation Area Appraisals and Management Strategies
- [Retrofitting Planning Guidance](#)
- [Energy efficiency planning guidance for conservation areas](#)

Energy efficiency planning guidance for conservation areas



Solid wall insulation (internal)

What is it? Solid walls have no gap so they can't be filled with cavity wall insulation. Homes built before 1920's are likely to be solid walls. Insulation to solid walls can either be constructed on the outside walls of your home (external) or on the inside walls (internal). Internal wall insulation uses insulation [boards](#) or a wooden frame filled with insulation attached to the inside of your walls.

Cost £££

Improvement ⬆⬆⬆⬆

Disruption !!!!

Property designations? Is your home in a Conservation Area? Is it subject to an Article 4 Direction? Is it a Listed Building? These considerations may impact whether development to your property requires planning permission or not. An interactive map showing conservation areas and listed buildings can be [found here](#). Details of Article 4 Directions can be [found here](#). If you are uncertain, please contact the planning service planning@camden.gov.uk

Listed Buildings - before embarking on any internal or external works, please discuss the matter with a member of the built heritage Conservation Team (planning@camden.gov.uk) or apply for listed building consent, details [available here](#). Listed building consent is always required for works that have the potential to affect the character or special interest of a listed building.

No designation	Permitted development (planning permission is not required)
Conservation Area (with or without Article 4 Direction)	Permitted development (planning permission is not required)
Listed Buildings	Listed Building consent required. This is unlikely to be acceptable in a listed building due to impact on the fabric of the building, internal details and maintenance of original fabric due to moisture build up.
Building Regulations	Part F (Ventilation) Part L (Conservation of fuel and power) Part P (Electrical safety)

Closing remarks

- Whole house focus on retrofit will ensure it is high quality
- Funding and support is available now but it's important to do research and consider the risks and challenges
- Engage with trusted contractors



Resources

Green Camden Helpline

<https://www.camden.gov.uk/green-camden>

Simple Energy Advice

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

Ecofurb

<https://ecofurb.com/>

TrustMark

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

Enhabit

<https://www.enhabit.uk.com/>

Sanya Polescuk Architects

<https://polescukarchitects.com/>



Upcoming Webinars

Topic	Date
Solar Together Workshop Solar Together Phase 4 is due to launch in February 2021 and is aimed at homeowners and small and medium-sized enterprises to encouraging group buying for solar panels and battery storage. The sets out to help Camden residents' access affordable solar panels and make carbon savings. Join the workshop to learn more and see if the scheme is suitable for your home.	Feb 2021
Retrofit for Businesses Retrofit is a valuable tool for complying with legislation, saving money, enhancing business reputation, as well as helping landlords comply with the Minimum Energy Efficiency standards. In this session we will talk about the retrofit options available to businesses with a focus on how heat pumps can drive energy efficiency improvements.	Feb 2021
Minimum Energy Efficiency Standards – Landlords All rental properties in the borough are required to meet EPC E unless an exemption has been registered. This webinar will outline the responsibilities of landlords under MEES and signpost to support available to improve the energy efficiency of their properties. If Camden is to meet its carbon reduction targets by 2030, we want to help engage as many landlords as possible to go above and beyond this benchmark to drive energy efficiency in the private rented sector.	March 2021
What to do when you can't retrofit? Over two thirds of Camden's residents live in properties that are rented. This makes it difficult for residents to complete any physical changes to the property but are lots of ways to help minimise energy usage in the home by making small changes to the way we live.	April 2021