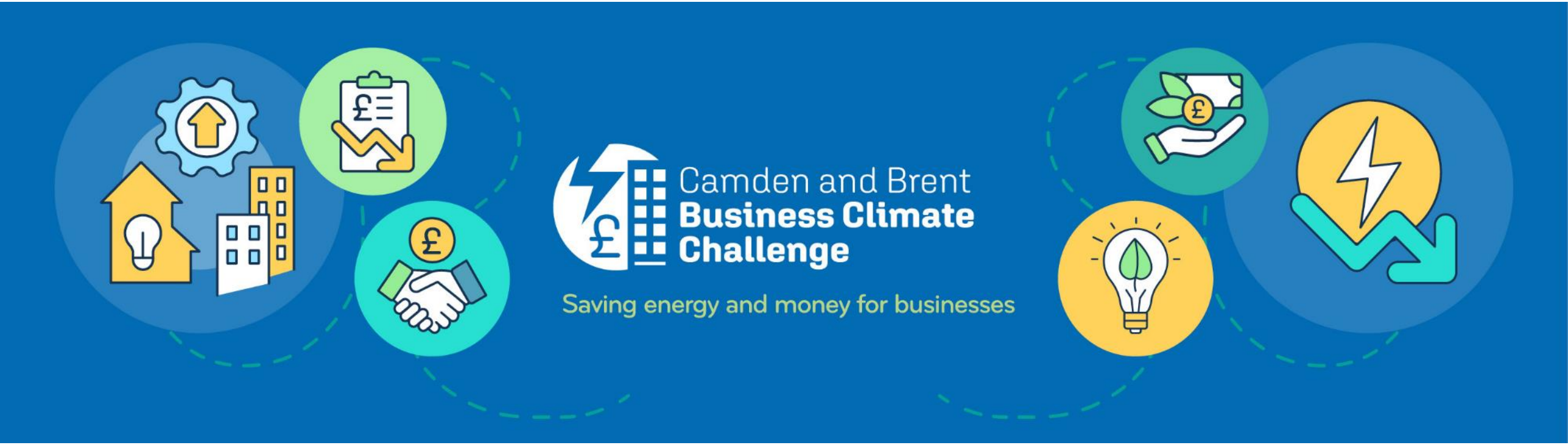
The Fitzrovia Partnership
Business Improvement District

Brent for business

Camden Climate Alliance



wsp

Turner & Townsend

io-gen

Agenda

09.00 Registration

Light refreshments

Networking

9:25 – 9:35 Welcome and Introduction, Camden Climate Alliance – Abigail Roberts

Housekeeping

Introductions

Overview of Camden and Brent Business Climate Challenge

9:35 – 10:35 Introduction to Energy Management – Turner & Townsend

What is Energy Management?

6 steps to achieving net zero

Grants and resources

10:35 – 10:50 Summary and questions – Turner & Townsend

10:50 – 11:05 Refreshment break

Movement break

11:05 – 11:35 IO-Gen, Energy Management dashboard demonstration – IO–Gen

How it works

Using the tool

Live demonstration

11:35 – 11:45 Questions – Turner & Townsend

11:45 – 12:00 Summary – Turner & Townsend

Key takeaways

12:00 – 12:30 Event close

Camden and Brent Business Climate Challenge

Saving energy and money for businesses

Welcome and Introduction

Camden and Brent
Business Climate Challenge
Saving energy and money for businesses

Meet the presenters

Abi Roberts
Climate Alliance Lead

Qasim Akhtar
Senior Consultant

Shraddha Nair
Consultant

Jed Palma
Energy Management platform founder

Imogen Stewart-Green
Junior Consultant

Camden and Brent Business Climate Challenge
Saving energy and money for businesses

The Business Climate Challenge

What is the programme?

A free energy efficiency programme to help 125 businesses reduce their energy costs and cut carbon emissions.

It is a follow-on programme from the successful Mayor of London's Business Climate Challenge (BCC) which has supported more than **200 London businesses** which included **46 Camden Climate Alliance businesses** and **22 Fitzrovia partnership businesses** between 2022-23.

Brent council successfully executed a similar programme, assisting **54 businesses** through audits and grant funding opportunities.

Camden Climate Alliance

125 businesses

The Fitzrovia Partnership
Business Improvement District

Brent for business

What can my business expect to receive in the Camden and Brent Business Climate Challenge?

- An energy audit
- A recommendation report – actions, savings, ££ payback
- The opportunity to apply for grant funding in the FY 2024/25 to facilitate the implementation of recommendations from the report
- Access to an Energy Management dashboard
- Training – x6 sessions over the course of the programme

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Saving energy and money for businesses

The challenge?

Reduce your energy consumption by **10%**

BCC Pilot 2020-21:

Participants reduced energy consumption by **16%** on average in 9 months, saving **£8,300** in energy costs.

BCC scale up 2022-23:

Within the first 9 months, participating businesses that received their recommendation report more than 6 months ago, were already on track to save **9%**

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Training sessions to be offered through CBBCC

Business

Sustainability Series:

Upcoming Training Sessions

2024

June **19/06, 9am-12pm**: Energy Management Best Practice, King's Cross, [In person]

July **11/07, 11am-12.30pm**: Behaviour Change & Employee Engagement, 11am - 12.30pm [Online]

Sept Energy-saving technologies and funding [In person]

Oct Communicating your sustainability journey [Online]

Nov Accredited Carbon Literacy Training, 1 day [In person]

2025

Jan Understanding scope 3 emissions [online]

Delivered through:

Camden and Brent Business Climate Challenge

Open to all businesses based in Camden, Brent and The Fitzrovia Partnership

Camden and Brent Business Climate Challenge

Saving energy and money for businesses

What do you get from the Business Climate Challenge?

Participating in the **Camden and Brent Business Climate Challege (CBBCC)** provides tangible economic, environmental and social benefits that will help you future proof your business.

Reduce energy bills

Access peer-to-peer learning

Support London's net zero efforts and be recognised

Opportunity to apply for grant funding

Access expert technical support and upskill your staff

Improve the value and health of your workplace

Attract talent, clients and engage staff

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Clean Break Theatre – BCC 2022-23

Link to video: [Clean Break Theatre Company - Business Climate Challenge (youtube.com)]

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Business Climate Challenge Journey

- Express your interest and submit application
- Applicant selection

- Accept place
- Introductory sessions with participants
- Submit energy and building data

- Workplace audit and recommendation report
- Building talk through
- Participant training

- Participants take energy reduction actions
- Continued support
- Energy monitoring

- Project completion
- Mayoral recognition event

Phase 1 February 2024 → **Phase 2** → **Phase 3** → **Phase 4** → **Phase 5** March 2025

Recognition for leading businesses

Business engagement, training sessions and knowledge-sharing activities/event

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Introduction to Energy Management

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What is Energy Management?

The process of monitoring, controlling and conserving energy in a building or organisation

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Why is Energy Management important?

Manage costs

Increased awareness of energy demand

Manage carbon emissions

Forecast and measure energy efficiency

Inform business decisions

Influence behaviour

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Net zero buildings

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What is a net zero building?

*A '**Net Zero Carbon** – Operational Energy' asset is one where **no fossil fuels** are used, all **energy use has been minimised**, the building meets the local energy use target (e.g., kWh/m²/year) and **all energy use is generated** on- or off- site **using renewables** that demonstrate additionality. Any residual direct or indirect emissions from energy generation and distribution are **'offset'**.*

Definition by LETI, RIBA and WLCN

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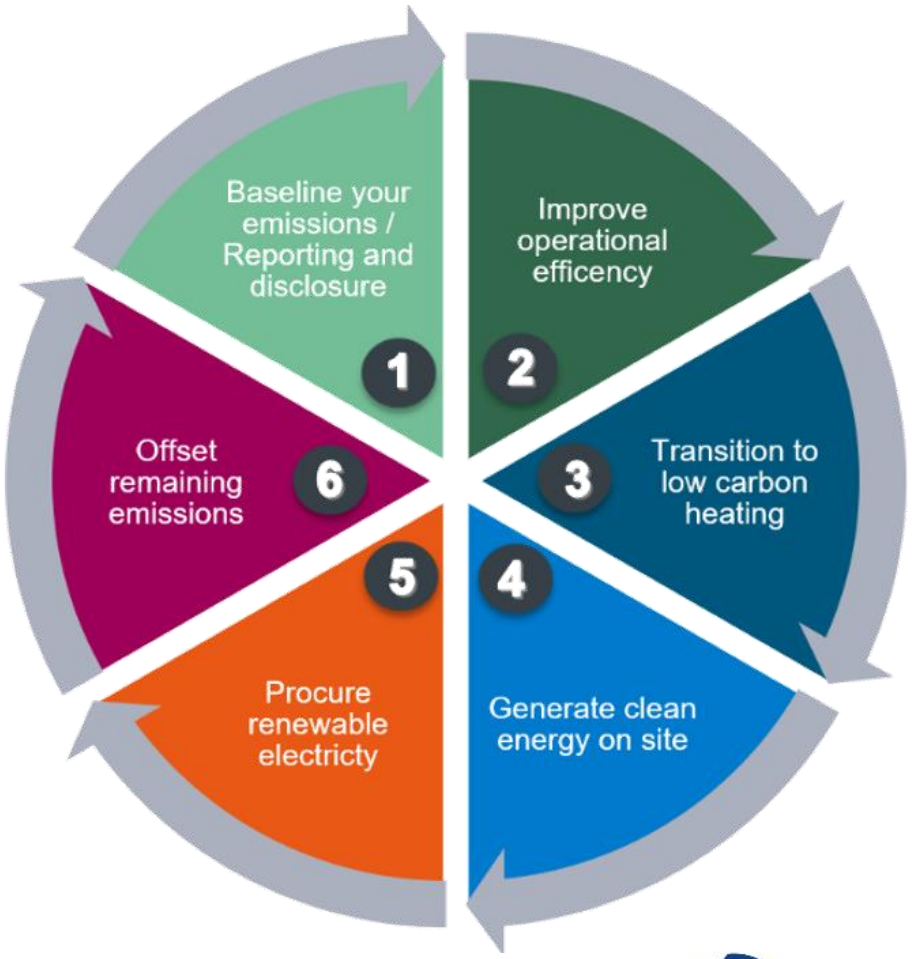
How can we achieve net zero buildings?

1. Baselining, reporting and disclosure
2. Improve operational efficiency
3. Transition to low carbon heating
4. Generate clean energy on site
5. Procure renewable electricity
6. Offset remaining emissions



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Baseline, reporting and disclosure

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Baseline

Baseline – Starting point, energy consumption before joining BCC to measure your progress

Creating a baseline requires:

- Regular meter readings
- Tracking meter readings
- Converting meter readings into energy use (kWh), carbon (tCO_2e)

Total Energy Use	Normalised energy
• Quarterly • Monthly • Weekly • Daily	• kWh per capital (e.g. employee, footfall) • kWh per unit of occupied space (e.g. m^2) • kWh per unit of revenue

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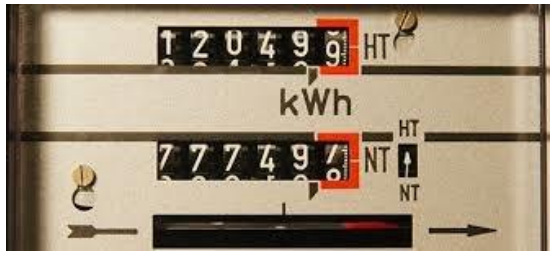
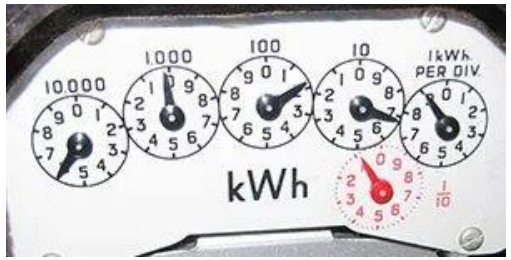
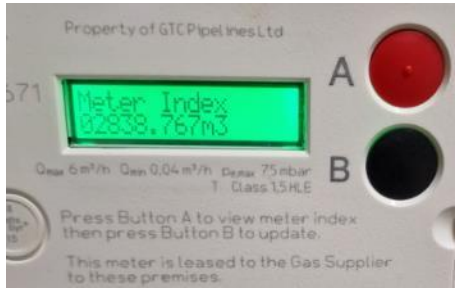
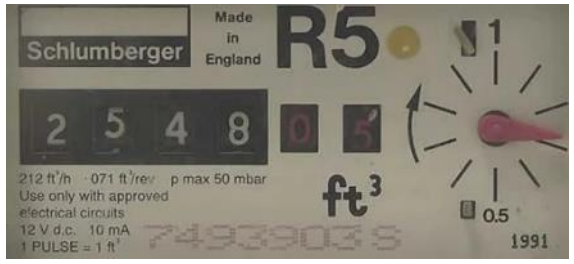
Reading meters

Electricity

Digital Meter	Dual Meter	Dial Meter
		
Meter reading is **042410 kWh**	Meter reading is **12049**kWh, **77749**kWh	Meter reading is **60279**kWh

Gas

Digital Meter	Imperial Meter	Dial Meter
		
Meter reading is **02838**m^3	Meter reading is **2548**ft^3	Meter reading is **7120**ft^3

- Gas is measured in cubic meters **m^3** or cubic feet **ft^3**
- Gas is billed as **kWh**
- If no meter readings are taken, **suppliers will estimate electricity and gas use**

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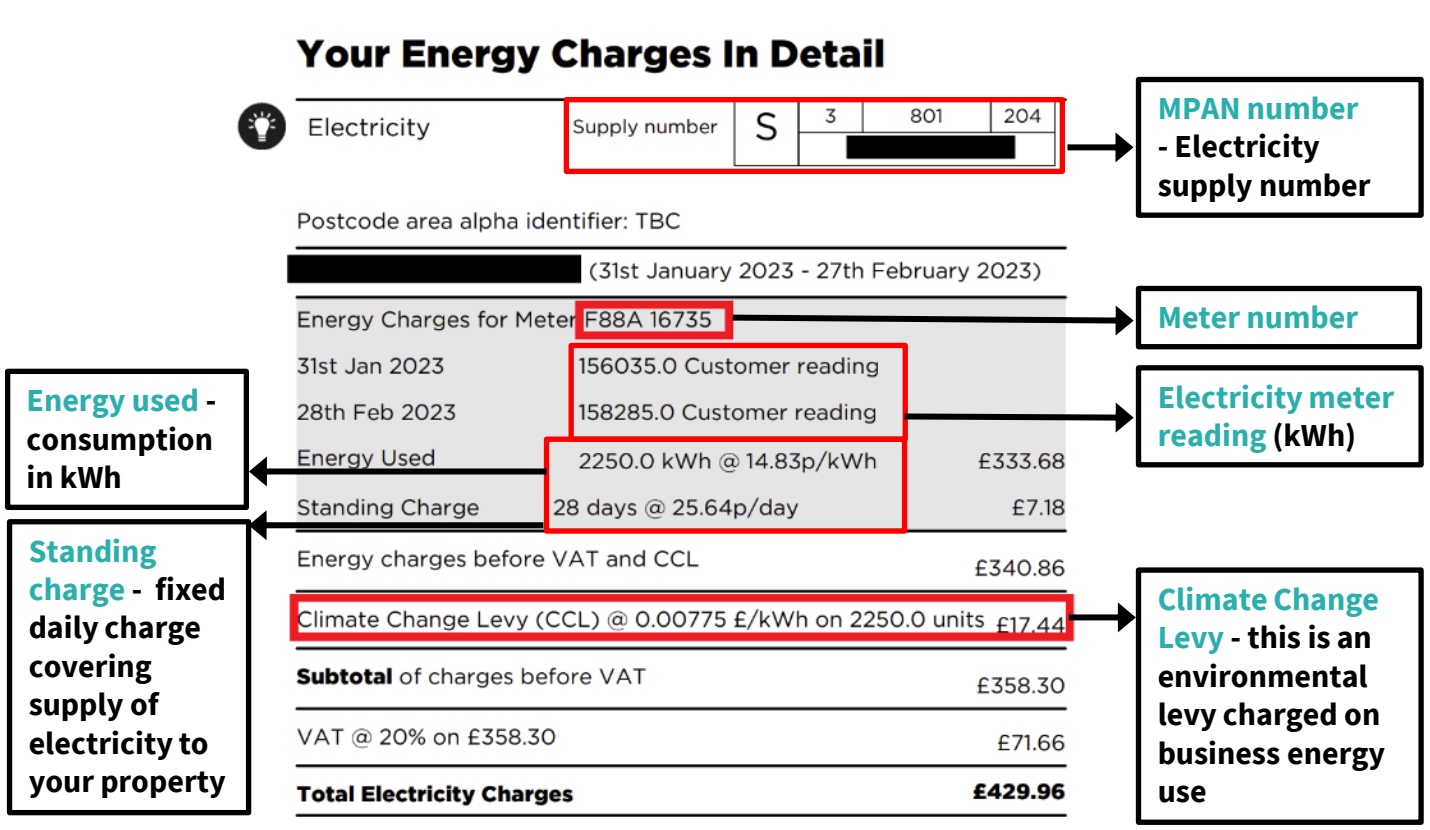
Meter readings and bills - Electricity



Your Energy Charges In Detail

Electricity	Supply number	S	3	801	204

Postcode area alpha identifier: TBC

[redacted] (31st January 2023 - 27th February 2023)

Energy Charges for Meter	F88A 16735	
31st Jan 2023	156035.0 Customer reading	
28th Feb 2023	158285.0 Customer reading	
Energy Used	2250.0 kWh @ 14.83p/kWh	£333.68
Standing Charge	28 days @ 25.64p/day	£7.18
Energy charges before VAT and CCL		£340.86
Climate Change Levy (CCL) @ 0.00775 £/kWh on 2250.0 units		£17.44
Subtotal of charges before VAT		£358.30
VAT @ 20% on £358.30		£71.66
Total Electricity Charges		**£429.96**

MPAN number - Electricity supply number

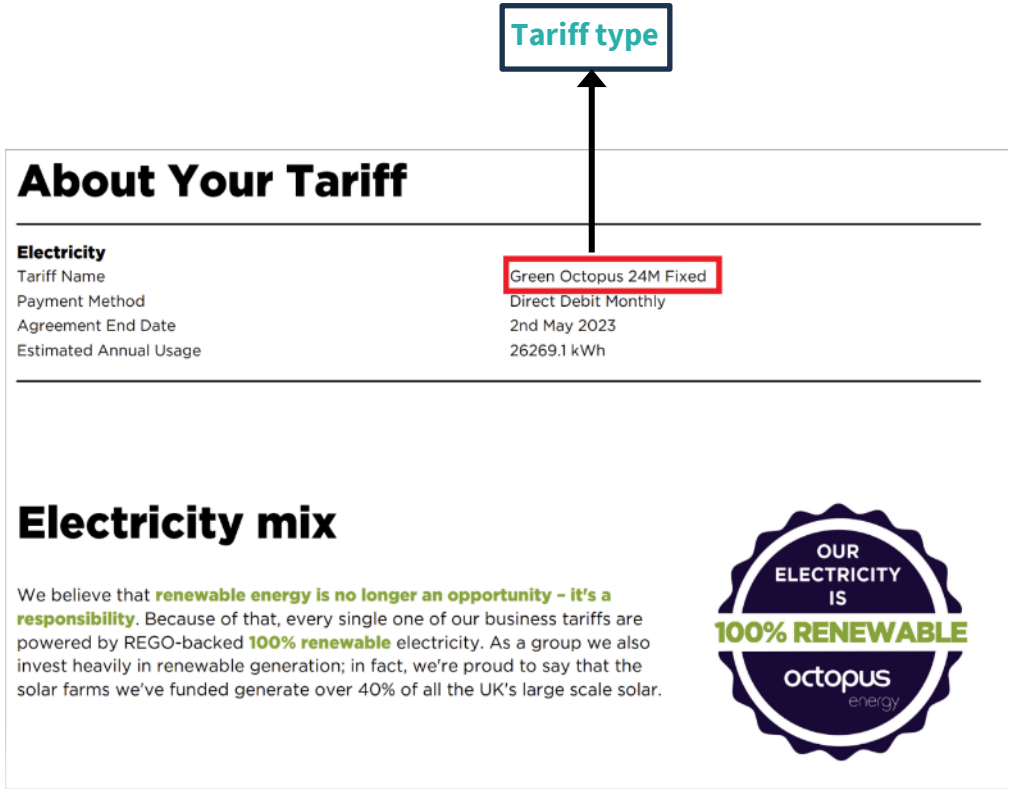
Meter number

Electricity meter reading (kWh)

Energy used - consumption in kWh

Standing charge - fixed daily charge covering supply of electricity to your property

Climate Change Levy - this is an environmental levy charged on business energy use



Tariff type

About Your Tariff

Electricity	
Tariff Name	Green Octopus 24M Fixed
Payment Method	Direct Debit Monthly
Agreement End Date	2nd May 2023
Estimated Annual Usage	26269.1 kWh

Electricity mix

We believe that **renewable energy is no longer an opportunity – it's a responsibility**. Because of that, every single one of our business tariffs are powered by REGO-backed **100% renewable** electricity. As a group we also invest heavily in renewable generation; in fact, we're proud to say that the solar farms we've funded generate over 40% of all the UK's large scale solar.

OUR ELECTRICITY IS 100% RENEWABLE octopus energy

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Meter readings and bills – Gas

Gas

Meter Point Reference: [redacted]

Supply Address: [redacted]

Flexible Octopus (1st January 2024 - 11th March 2024)

Energy Charges for Meter	E6S00212751456	
1st Jan. 2024	8083.0 Estimated reading	
12th March 2024	8247.0 Customer reading	
Consumption	164.0 Units (m^3)	
Energy Used*	1816.4 kWh @ 6.96p/kWh	£126.44
Standing Charge	71 days @ 26.16p/day	£18.57
Subtotal of charges before VAT		£145.01
VAT @ 5.00%		£7.25
Total Gas Charges		**£152.26**

Meter Point Reference - Gas supply number

Business address

Gas meter number

Gas meter readings (m^3)

Energy used - consumption converted to kWh

Standing charge – fixed daily charge covering supply of gas to the property

About Your Tariff

Prices do not include VAT unless otherwise noted.

Gas

Tariff Name	Flexible Octopus
Product Type	Variable
Payment Method	Direct Debit
Unit Rate	6.96p/kWh
Standing Charge	26.16p/day (£95.48/year)
Price Guaranteed Until	Not applicable
Early Exit Fee	None
Estimated Annual Usage*	5177 kWh

Tariff type

Unit rate - cost of gas per kWh used

Standing charge rate – charge per day

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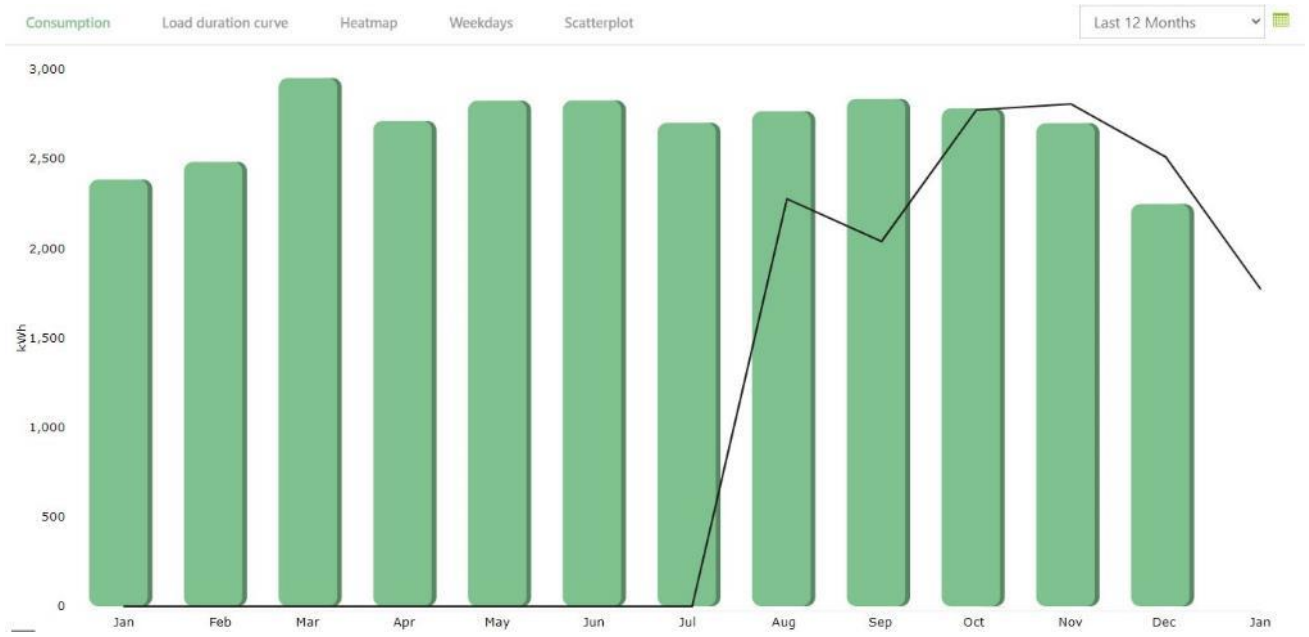
Visualising energy data



Baseline year

- This shows the energy data from the previous year, which will be the reference point to compare after the recommended changes have been actioned.
- IO-GEN Energy Management platform can be used for this.

Annual energy consumption

- 12 months of energy data
- Trends across the year
- Understand the peaks
- What energy is necessary and out of hours

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Target setting

- CBBCC target is **10% energy reduction**
- **Baseline energy consumption – 10%** = Year 1 target energy consumption

Reporting

- Can incorporate into other targets too (e.g. net zero)
- Disclosure of energy consumption
- IO-Gen platform is the programme's reporting tool
- Smart meters reporting automatically
- For analog/older meters, participants need to report monthly readings

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Operational efficiency

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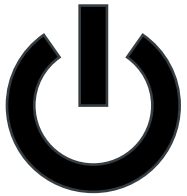
Watts - Understanding the units

A Watt (W) – Is a measure of how much power an appliance needs to run



- **1 Watt (W)** = 1 Joule per second (1W = 1 J/s)
- **1 kilowatt (kW)** = 1,000 Watt (W)

5W LED bulb	50W laptop	6.5kW industrial dishwasher	1,240kW condensing boiler
			

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kWh - Understanding the units

Kilowatt hour (kWh) is a measure of how much energy you're using

- The number of kilowatts you're using per hour
- It's a unit of measurement
- It is also the unit that energy is sold in

Kilowatt hour
kWh
A measure of how much energy is used and a unit of energy that is sold
Example: 2kW dishwasher x 2hrs = 4 kWh

Dishwasher	
Instant power requirement?	2kW
Power consumption of 1 x cycle (2 hours)	2kW x 2h = 4kWh
Cost to run a cycle (£0.20/kWh)	£0.20/kWh x 4kWh = £0.80
Cost to run the dishwasher once a day, 365 days	£0.80 x 365 = £292

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Time for an exercise

Kilowatt hour
kWh
A measure of how much energy is used. Electricity is charged in **Kilowatts per hour (kWh).** To convert watts to kilowatts, **divide by 1,000.** So, **3,000 watts** is the **same as 3 kilowatts**, this means an electric kettle uses 3 kilowatts of electricity per hour.

Work on your tables to calculate how much energy is used by the various appliances. Use an energy price of £0.20/kWh in your calculations.

kW time cost per kWh total energy cost

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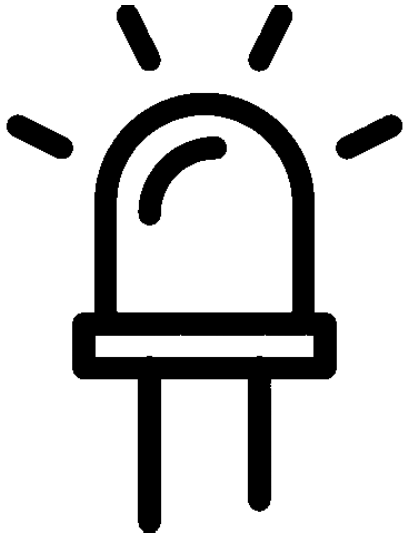
LED lighting usage

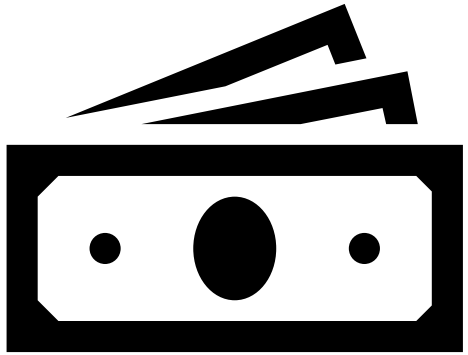


5 W

X

time

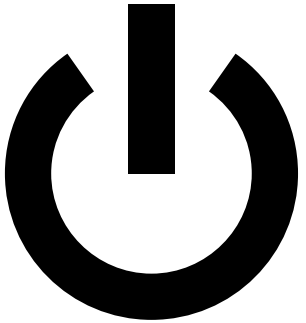
X



cost per kWh

£0.20/kWh

=



total energy cost

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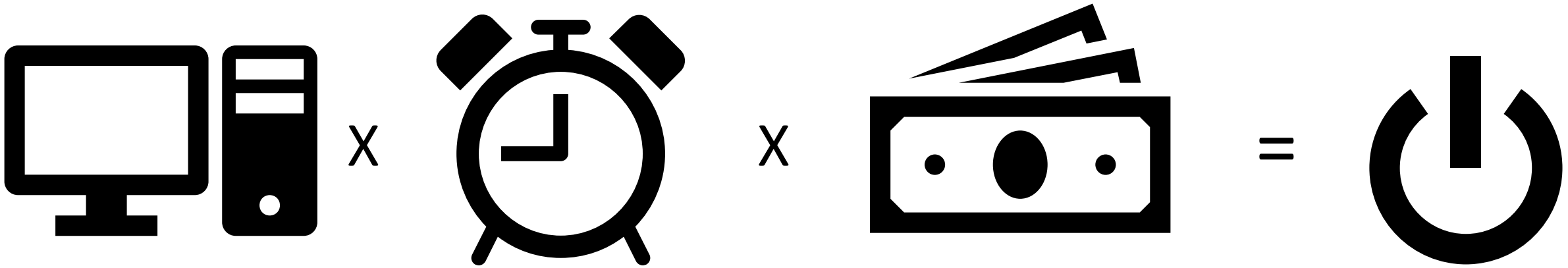
Desktop computer usage



200 W

time

cost per kWh
£0.20/kWh

total energy cost

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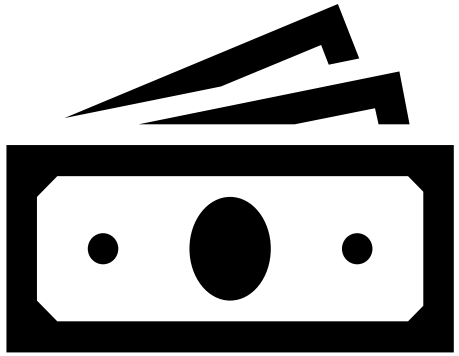
Kettle usage

3 kW

X

time

X



cost per kWh

£0.20/kWh

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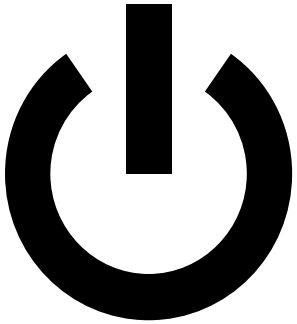

total energy cost

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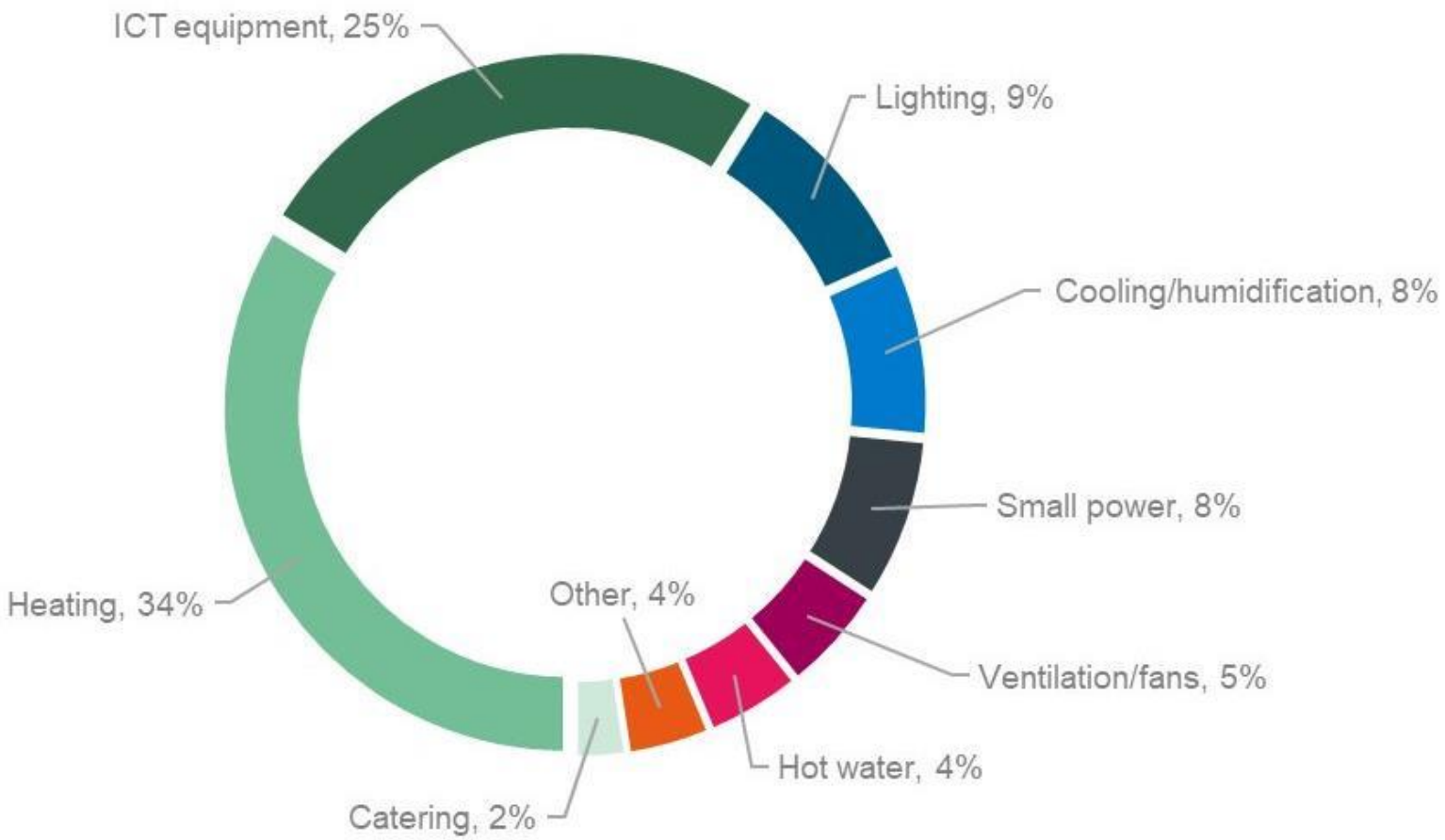
Typical usage in offices (UK)



Building Energy Efficiency Survey - https://www.gov.uk/government/publications/building-energy-efficiency-survey-bees

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Improving operational efficiency

What can we be looking at to improve the efficiency of our buildings?

- Equipment on when needed
- Automation of control systems: Business Management System (BMS), sensors such as Passive Infra-Red (PIR) for lighting
- Checking that temperature set points are optimised for heating and cooling systems
- Regular maintenance of equipment
- Behaviour change and staff engagement
- Energy management and corporate sustainability policy

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Using more efficient equipment

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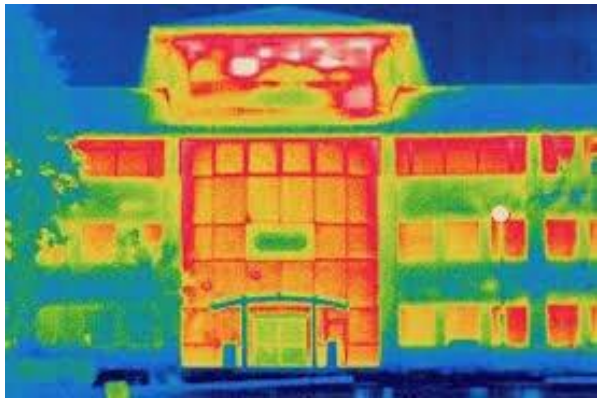
Using more efficient equipment



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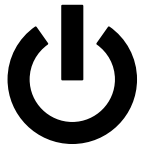
Quick tips for saving energy

Provide regular meter readings to energy suppliers

Check thermostats and timers are set to the appropriate time, day, and temperature settings for the building



Encourage staff to switch off IT equipment and lighting after use

Arrange workspaces to make best use of natural light, reducing the need for artificial lighting

Run staff engagement workshops to disseminate and encourage sustainable practices

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Transition to low carbon heating

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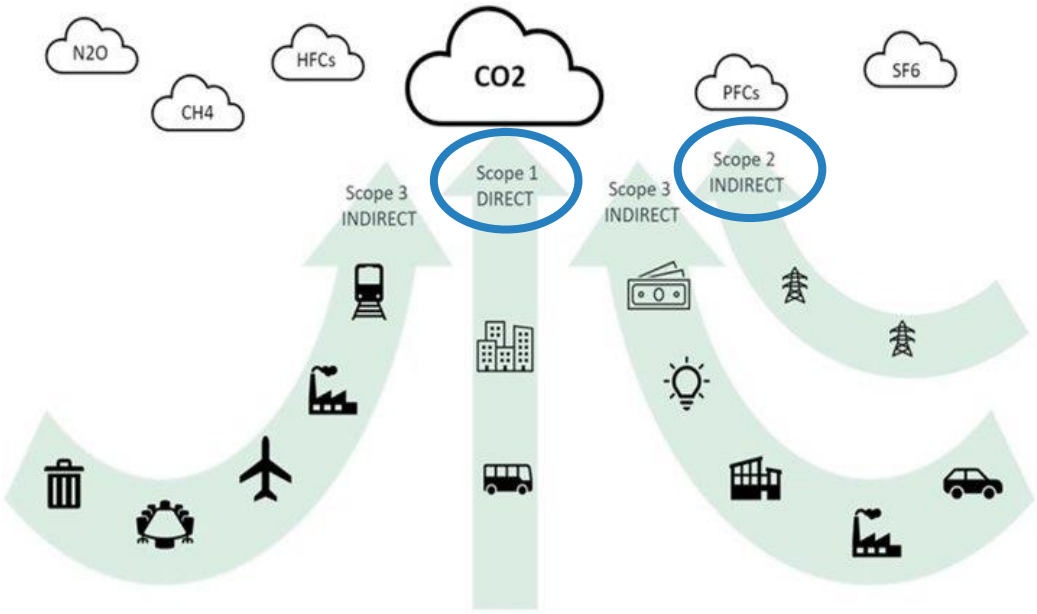
Energy and Carbon



Scope 1 – Direct emissions that are controlled by the reporting business
Includes: gas, oil, biomass

Scope 2 – Indirect emissions generated from purchased energy
Includes: Grid electricity, heat networks

Electricity Grid Generation	%
Fossil Fuel (Coal, Gas)	43.3%
Renewables (Solar, Wind, Hydro)	35.0%
Other (Nuclear, Biomass)	23.3%

Carbon calculators allow you to measure your carbon emissions based on the source of energy and how much is used (kWh).
kWh of energy used X emission factor = carbon dioxide eq

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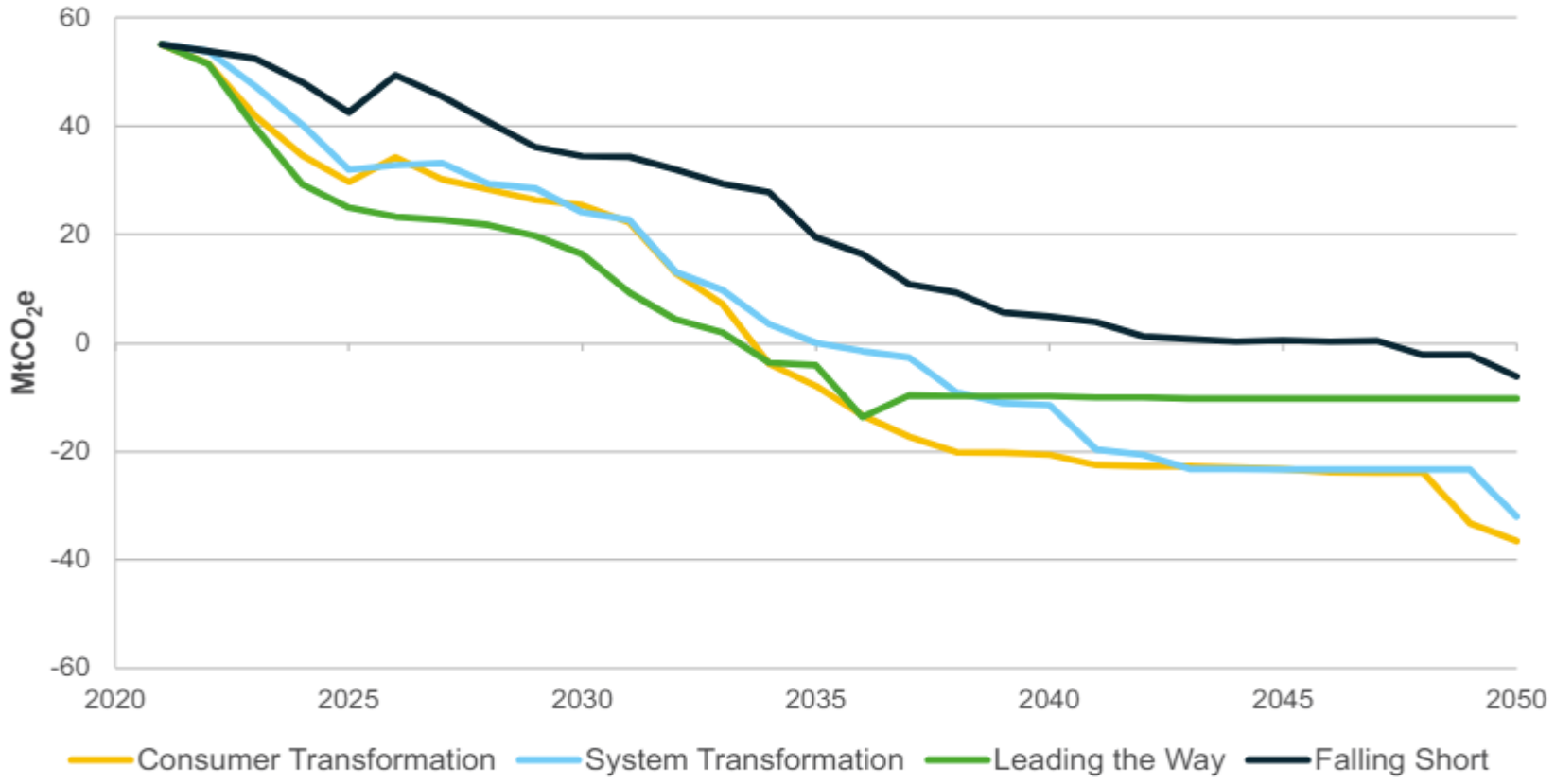
Intensity of the electricity grid

Figure NZ.04: Power generation emissions out to 2050



National Grid ESO, Future Energy Scenarios, July 2023 ESO - https://www.nationalgrideso.com/future-energy/future-energy-scenarios-fes

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Low carbon heating

Low carbon heating sources

The transition to low carbon heating and cooling systems includes removing old inefficient boilers and using smart replacements:

- Using air source heat pumps
- Utilising London's heat networks

Reducing heat loss/heat gain

Operate the building as efficiently as possible, minimising waste through better insulation and draft proofing measures

- Installation of double or triple glazing
- Insulation around pipes from heating systems
- Improving insulation from retrofitting

Efficient heating controls

Controlling your heating through efficient controls that optimises the equipment you have

- Thermostat measures
- Auto off
- Timers in place
- Zoning your heating

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Generate clean energy on site

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Onsite generation

Benefits:

Energy security and grid resilience

- Onsite generation reduces reliance on the National Grid, enabling businesses to have greater control over energy supply.
- Businesses are better equipped to withstand power outages or disruptions on the grid.

Cost and carbon savings

- By generating energy onsite, businesses are less exposed to fluctuations in energy prices, resulting in lower bills.
- Onsite generation reduces carbon emissions associated with business operations and energy use.




Considerations:

Roof access

- Roof access allows the potential for multiple renewable energy generation options, such as solar PV.

Planning and Orientation

- An audit optimises the location of the solar PV array to achieve maximum energy generation such as positioning solar to be south facing.

Building ownership/lease

- The ability to implement of renewable energy generation can depend on the ownership or tenancy of your business's workspace.

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Conservation areas and listed buildings

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Challenge

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Conservation areas and listed buildings

Conservation areas and listed buildings hold cultural, architectural and identity value, necessitating careful preservation and sustainable management over time.

To make alterations to a property in a conservation area or a listed building, **planning permission will usually be required**. For listed buildings, **listed building consent** will also be required.

Listed buildings

- A listed building is a building that is of national historical or architectural interest.
- Listed buildings are usually assigned one of three grades, **Grade I, Grade II* and Grade II.**
- Camden has over **5,600 listed buildings.**

Conservation areas

- Conservation areas are areas of land that have been designated or labelled as being of special architectural or historical interest.
- Camden has **40 conservation areas covering around 50% of the borough.**
- Four Camden conservation areas - **Belsize, Hampstead, Primrose Hill and South Hampstead** have '**Article 4 Directions**'
    - This restricts the removal of historic doors, windows, boundary walls, railings and changes to roofs and chimneys.

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Planning requirements in conservation areas

Energy conservation measure	Is planning permission usually required?	Planning requirements
External wall insulation	Yes	Typically, planning permission is required.
Roof insulation	No	Typically, deemed to be permitted development.
Cavity wall insulation	No	Typically, deemed to be permitted development.
Double glazing	Yes	Planning permission may not be required if there is no change in shape and dimensions of windows. Typically, full planning permission required.
Secondary glazing	No	Typically, deemed to be permitted development.
Air source heat pumps	Yes	Typically, planning permission is required.
Solar PV	Yes	Typically, planning permission required. Solar PV system less that 50 kWp in size are less likely to require planning permission.

For planning advice, please contact your local council's planning department.

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Solar PV Installation – Listed building & Camden Climate Fund case study

Doughty Street Chambers, a participant on the BCC 22–23 installed **96 solar panels** in November 2023 across their 4 premises, no. 10, 11, 53 and 54 Doughty Street.

10 & Doughty Street are Grade II listed buildings and therefore required planning permission and a heritage site assessment.

The project received planning permission and also awarded £10,000 from the Camden Climate Fund to support with the installation.

The system is expected to:

- Generate approx. **35,000 kWh per year**
- **Save 3.5 of carbon (tCO_2e)** per year
- Generate savings of **£27,479** over three years

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Procure renewable energy

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Energy trends

Global drivers of the energy price fluctuations:

Global prices for energy started to increase in 2021. Reasons for this included:

- Covid-recovery
- Depleted gas stockpiles in Europe
- Supply disruption
- Ukraine war
- Increased global energy demand

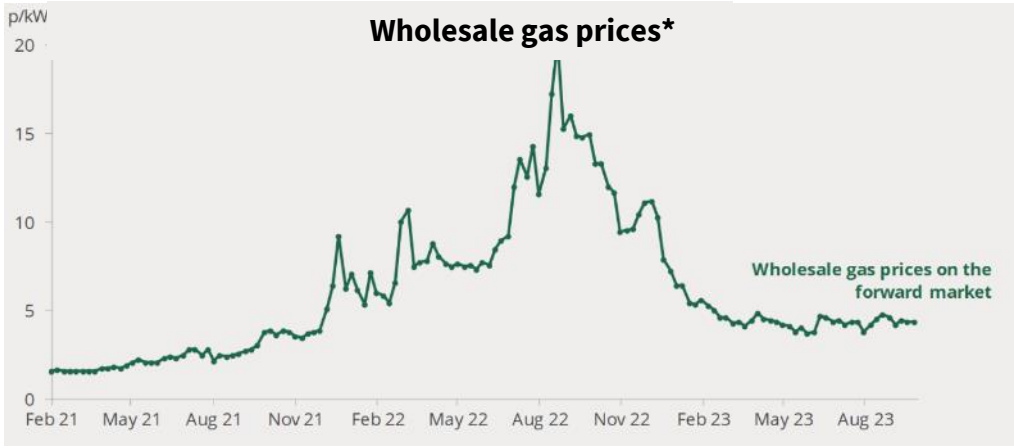
The UK government launched the energy price guarantee in October 2022 to cap energy prices.

Whilst energy prices have continued to fall since this time, prices remain 39% higher than there were in Winter 2021/22.

Prices are expected to fall by 7% in Q3 2024 and are then expected to rise by 12% in Q4 2024, remaining at this level in early 2025.

Energy efficiency and retrofit trends

- Cost of energy efficiency measures and renewables reducing
- More finance for energy efficiency projects
- More innovation, creating new products
- Quicker pay back
- But still skills shortages, immature supply chain, materials shortages



*Gas and electricity prices during the 'energy crisis' and beyond https://commonslibrary.parliament.uk/research-briefings/cbp-9714/.

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Energy procurement

Review the type of contract you procure

Rather than securing your energy costs through a Fixed Rate contract, which allows little flexibility, Flexible or Variable Rate contracts may allow you to take advantage of lower energy prices depending on the time of day in which you use your energy.

Collective purchasing

This is when organisations group together to purchase their energy. By combining purchasing power, it is possible to achieve lower prices, as suppliers compete for the overall business of collective energy consumption.

Green tariffs

Energy is still supplied by the grid, but the amount used is produced by renewable and/or fossil free sources.

- What does your supplier count as green/renewable?
- Can your supplier prove the energy is from renewable sources?
- Do they have a Renewable Energy Guarantee of Origin (REGO) certificate?

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Renewable energy procurement

To ensure you are choosing the right green energy tariff for your business there are 3 things you can check:

1. **Is your supplier buying a Renewable Energy Guarantee of Origin (REGO) certificate with their supply of renewable energy?** This will be presented to you as a customer to prove the percentage of renewable energy with your green tariff supply. However, the REGO can be bought separately without proof of renewable energy bought by the supplier, so check the originality of it.

2. **What percentage of your green tariff is renewable energy?** Your tariff will use a mixture of renewable energy and energy generated from fossil fuels. By checking that the supplier's business strategy includes increasing renewable energy generation, you can ensure the supplier is using your green energy tariff to provide support for renewable energy generation over REGO.

3. **Does your supplier state the source of their renewable energy?** Transparency of energy generation site is a good sign that the business is providing a reliable green tariff for your business and support the UK renewable energy industry. The current greenest tariffs available are Good Energy, Ecotricity, and Octopus.

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Offset remaining emissions

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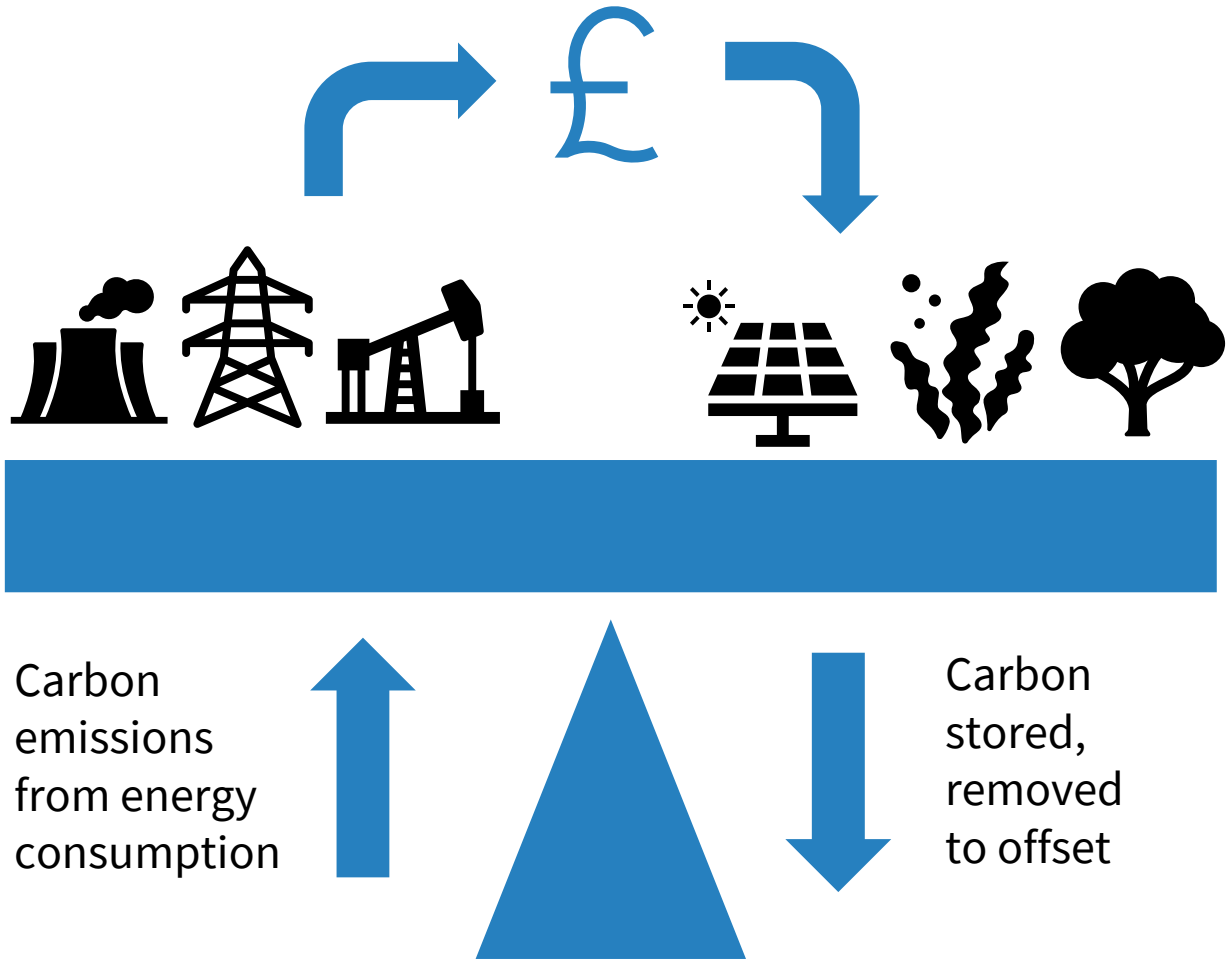
Offset remaining emissions

A carbon offset broadly refers to a reduction in GHG emissions – or an increase in carbon storage (e.g., through land restoration or the planting of trees) – that is used to compensate for emissions that occur elsewhere.



Reforestation

Coral and phytoplankton restoration

Wetland conservation and restoration

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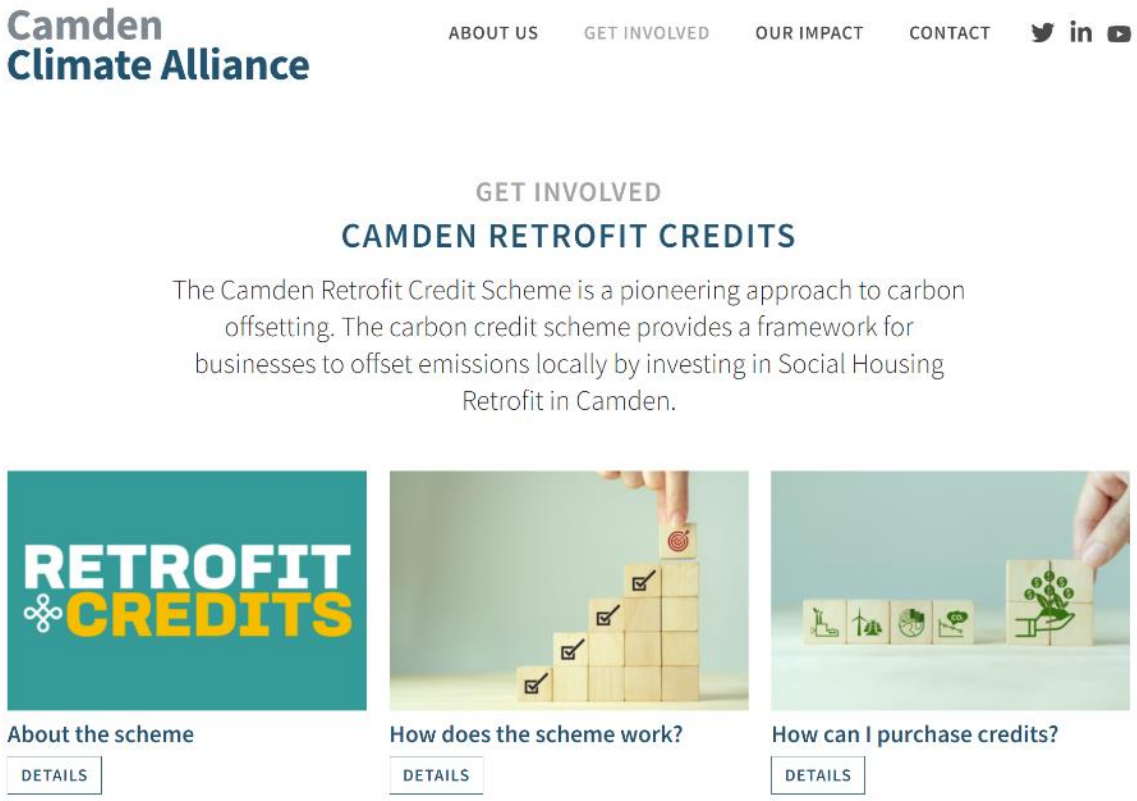
Camden Retrofit Credits

London Borough of Camden has developed a pioneering local carbon offsetting approach for businesses called the **Camden Retrofit Credits Scheme.**

- The scheme provides businesses with the opportunity to purchase carbon credits that are linked to Social Housing retrofits in Camden, to offset their residual emissions.
- The scheme calculates the carbon emission savings and social value savings that will be achieved through the purchase of the carbon credits.
- The scheme is being run in partnership with the Housing Association Charitable Trust.
- The scheme aims to address many of the concerns that exist with global offsetting schemes on quality, locality and integrity of carbon offsets.
- Further details about the Camden Retrofit Credits scheme can be found on the Camden Climate Alliance website.



Read more here about the scheme: Camden Retrofit Credits - Camden Climate Alliance

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Grants and resources

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Camden Climate Fund

Camden and Brent Business Climate Challenge
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Access to funding to support your net zero journey

Funding is available to support organisations to implement key recommendations that improve the efficiency of their workplace and achieve cost and carbon savings.

Camden Climate Fund

Businesses based in Camden who are participating through the Camden Climate Alliance or The Fitzrovia Partnership can apply for a **business grant** from the Camden Climate Fund for up to **£10,000 match-funding** to install renewable technologies and/or energy efficiency measures.

Measures include solar PV, thermal performance e.g. insulation, light and lower carbon heating upgrades e.g. LEDs, heat pumps.

To be considered for funding your business must be:

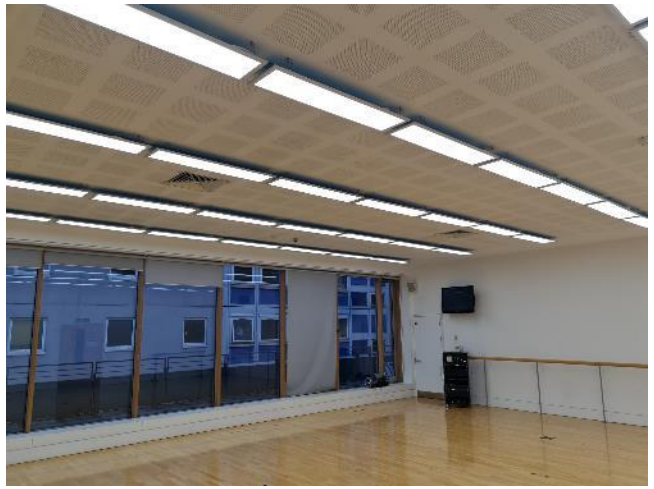
- A small-to-medium enterprise (SME) including third-sector organisations and sole traders
- Have premises where the work will be conducted located within the borough of Camden
- Be a member of the Camden Climate Alliance
- Deadline: applications are reviewed and accepted on a rolling basis.

Find out more about the grant and read the **Terms and Conditions** here: Camden climate fund - Camden Council

Apply here: Camden Climate Fund: Business Grant - We Are Camden - Citizen Space

For any questions or to discuss your application contact: camdenclimatefund@camden.gov.uk

Camden Climate Fund
Powering a smarter future



The grant supported us to install more than £20k of LED lighting upgrades helping us to save energy, futureproof fixtures and deliver on our ambition to be a net carbon zero building by 2030. ***The Place, BCC Participant 2022-23.***

Brent for Business Energy Saving Scheme

Camden and Brent Business Climate Challenge
Saving energy and money for businesses

Access to funding to support your net zero journey

Funding is available to support organisations to implement key recommendations that improve the efficiency of their workplace and achieve cost and carbon savings.

Brent for Business Energy Saving Scheme

Businesses based in Brent who are participating through the programme can apply for a **business grant** of up to **60% of the eligible costs or £18,000, whichever is lower, to install renewable technologies and/or energy efficiency measures, with the remaining 40% of match-funding coming from the business or landlord.**

Measures could include solar PV, thermal performance e.g. insulation, light and lower carbon heating upgrades e.g. LEDs, heat pumps.

The grant provides a capital subsidy to help businesses implement energy efficiency initiatives. The maximum level of the grant is £18,000 which would require a total project value of at least £30,000.

To be considered for funding your business must be:

- A small-to-medium enterprise (SME) including third-sector organisations and sole traders
- Have premises where the work will be conducted located within the borough of Brent

Deadline: applications are reviewed and accepted on a rolling basis.

Please act quickly as this funding is time limited.

For further information on funding applications please email: business@brent.gov.uk

Free available resources

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- **Camden Climate Fund:** Grant funding for local community energy projects: https://www.camdenclimatealliance.org.uk/get-involved/camden-climate-fund/
- **Brent Business Climate Charter:** https://www.brent.gov.uk/business/business-advice-and-support/brent-business-climate-charter#climatecharter
- **Carbon Footprint Calculator | Compare Your Footprint:** https://compareyourfootprint.com/difference-scope-1-2-3-emissions/
- **Greenhouse gas conversion factors for company reporting:** https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting
- Other ways to get involved: https://www.camdenclimatealliance.org.uk/get-involved/climate-connectors/
- **Guides and webinars:**
  - BCC IO-Gen resources: https://bcc.io-gen.com/Basic/Documents/Index/309021
  - The Carbon Trust Guides: https://www.carbontrust.com/our-work-and-impact/guides-reports-and-tools

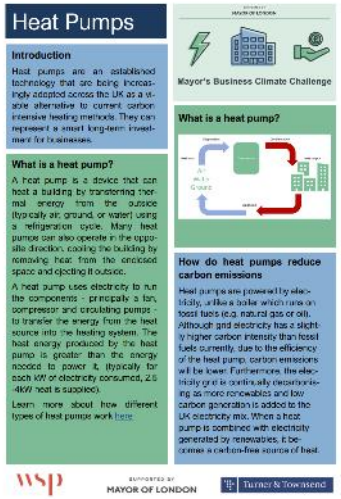
Compare your FOOTPRINT

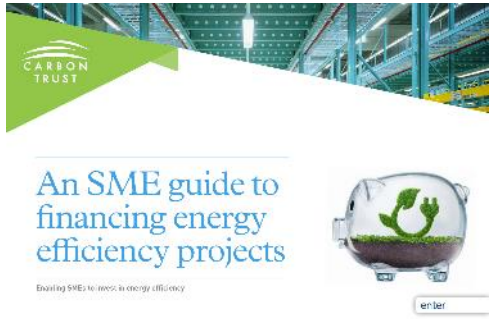
Funded by UK Government

io-gen

Camden Climate Alliance

CARBON TRUST





Summary

- **Energy Management** is the process of monitoring, controlling and conserving energy in a building or organisation and provides a process for **reducing energy costs** and **carbon emissions.**
- There are **6 steps to achieving net zero buildings** with **Energy Management**, this includes:
  - Baselining, reporting and disclosure
  - Improving operational efficiency
  - Transitioning to low carbon heating
  - Generating clean energy on site
  - Procuring renewable electricity
  - Offsetting remaining emissions
- When undertaking energy improvement projects within a listed building or conservation area, **contact your local council's planning department for advice.**
- **Apply to the Camden and Brent Business Climate Challenge** to receive an energy audit and recommendation report to identify how your business can reduce its energy costs and cut carbon emissions.

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Questions

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Refreshment break

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slido

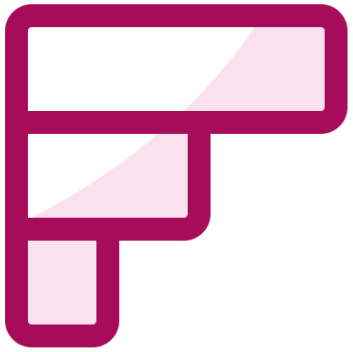
Please download and install the Slido app on all computers you use

Is your business planning to implement any energy efficiency measures?

ⓘ Start presenting to display the poll results on this slide.

slido

Please download and install the Slido app on all computers you use



I feel more confident in my understanding of what my business can do

ⓘ Start presenting to display the poll results on this slide.

IO-GEN Energy Management platform

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Why does energy efficiency matter?

"Unprecedented cost inflation in the utilities market."

Net zero by

2030

Mayor of London target

"In industries – like retail, utilities are in the top 5 overhead costs. Usually just after staffing and waste."

Inflation

9.2%

CPI 12-month rate (December 2022)

"The growing pressure to hit targets in reducing carbon footprint and sustainability."

Top

?%

In your business type where does it sit currently?

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How does the IO-Gen Energy Management platform work?

Data is collected from

Meter readings

Bills / invoices

Energy suppliers

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BCC 2023 on IO-Gen

IO-Gen allows us to easily see the direct results of implementing energy efficiency initiatives or installing energy saving equipment. The platform is easy to use thus making it easier to hit your sustainability targets. You can easily compare to where you were year ago to ensure you are improving year on year. You are even able to document and log the energy saving measures you take and the dates of these within the platform.

London BioScience Innovation Centre, Camden Climate Alliance BCC 2023 Participant

We found the IO-Gen platform helpful when visualising our electricity usage. We had a lot of issues during the BCC period getting our smart meter installed with our provider, so having a platform that allowed us to input our meter readings and give us stats and graphs was useful when tracking the effects of the changes we were implementing to reduce our usage. Once we did get our smart meter sorted, IO-Gen became even easier to use. As well as showing us the efficacy of our policies, the graphs are great for wider internal communications and staff engagement, as it is a simple way to show the successes of their efforts too.

Goodman Jones, The Fitzrovia Partnership BCC 2023 Participant

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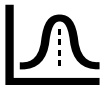
Using the IO-Gen platform and key learnings

Dashboards and Reports
(understanding the dashboards)



Baseline
(how to set a baseline and baseload)

The CBBCC
(updating data and tracking)

Measures
(tracking the BCC recommendations)

Team Engagement
(engage colleagues by sharing progress)

Site Diary
(notes and documents)

Monthly notifications
(notifications for monthly meter reads)

Web-app
(for meter reads with offline access)

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Live demonstration

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Brief demo tutorial also available here: https://youtu.be/o8zzj82HpFg

Questions

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  - Generating clean energy on site
  - Procuring renewable electricity
  - Offsetting remaining emissions
- **Apply to the Camden and Brent Business Climate Challenge** to receive an energy audit and recommendation report to identify how your business can reduce its energy costs and cut carbon emissions.
- **IO-Gen Energy Management platform** is the reporting tool for the **Camden and Brent Business Climate Challenge** and enables businesses to baseline their energy consumption and monitor energy savings from energy saving projects.

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Thank you

Camden and Brent
Business Climate Challenge

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Key Contacts

Key Contacts	Troubleshooting (not exhaustive)	Email
Technical Delivery Unit	Queries relating to accessing your energy data, asbestos register, audit, recommendation report	businessclimate@turntown.com *Or if you've received your recommendation report, contact your auditor directly*
IO-Gen Energy Management Dashboard	Access/understanding your dashboard, how to upload data and measures, changes to your energy supplier	Jed Palma: info@io-gen.com
Camden	Completing your application, general queries, trainings, programme feedback	Abi Roberts: Abigail.Roberts@camden.gov.uk Susanna Sparrow: Susanna.Sparrow@camden.gov.uk
Brent	Completing your application, general queries, trainings, programme feedback	Jide Ogunro: Jide.Ogunro@brent.gov.uk Danica Sharan: Danica.Sharan@brent.gov.uk
The Fitzrovia Partnership	Completing your application, general queries, trainings, programme feedback	Stella Pyke: Stella.Pyke@fitzroviapartnership.com

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