

Funded Rooftop Solar PV for Commercial, Industrial & Public Sector Organisations



Affordable Energy for your Organisation

SAFEGUARDING LOW CARBON, SECURE AND AFFORDABLE ENERGY FOR YOUR ORGANISATION IN UNCERTAIN TIMES

In the face of recent economic uncertainty, budgets for both public and private sector businesses have been stretched to the limit, while energy costs have skyrocketed.

The result, for some organisations, has been catastrophic. For example, Great Ormond Street Hospital anticipated a combined gas and electricity bill of £650,000 per month in early 2023, an increase of over £300,000 per month compared to the previous year.

MAKE SAVINGS WHILE REDUCING YOUR ORGANISATION'S CARBON FOOTPRINT

The UK Government has committed to reach a target of net zero greenhouse gas emissions by 2050. To achieve this, the UK will need to decarbonise all sectors of the economy through the key principles of:

- Energy efficiency
- Decarbonisation of heat
- Renewable power



"Reaching net zero emissions does not have to be excessively costly."

Broadening the use of renewable energy and the electrification of heat are paramount for the transition to a low carbon energy system.

A solar PV plant will provide significant savings on your energy costs, while reducing your organisation's carbon emissions.

"Today, anyone can become a power generator using the roof of their home or business."

ASK US HOW TO FUND AND BUILD A SOLAR PV SYSTEM



Rooftop Solar Photovoltaics

WHO IS SUITABLE FOR FUNDED ROOFTOP SOLAR PV?

- Commercial Buildings
- Industrial Operations
- Public Sector Organisations

Available to consumers with energy requirements in excess of 100,000kW per annum.

WHY SHOULD YOU INSTALL ROOFTOP SOLAR ON YOUR ORGANISATION'S PROPERTY?

- Protect your organisation from price volatility
- Reduce power costs by up to 30%
- Generate zero emission electricity
- Guarantee your energy supply and price on a long-term contract

THE FUNDED SOLUTION

Lease for the Roof-Top

The funder will lease the roof-space for the PV panels, granting rights to construct, operate and maintain the system for the life of the PPA.

Power Purchase Agreement

This is the contract between the Customer and funder to sell the generated power. The customer is invoiced monthly.



COMMERCIAL BUILDINGS



INDUSTRIAL OPERATIONS



PUBLIC SECTOR ORGANISATIONS



FUNDING FOR THOSE USING MORE THAN 100,000kW/YEAR



Low Carbon Alliance Support

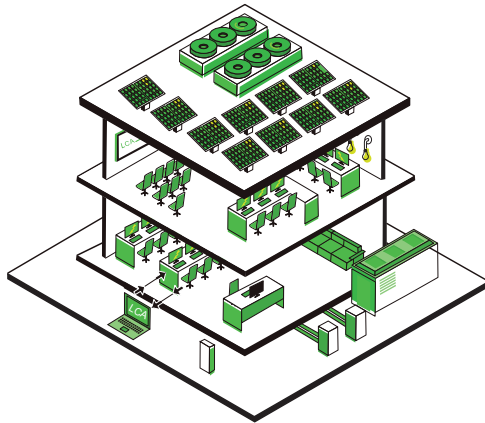
HOW CAN LOW CARBON ALLIANCE SUPPORT YOU IN DEVELOPING YOUR RENEWABLE PROJECT?

Our experienced team of engineers and property consultants will provide you with expert guidance on identifying intelligent applications for optimised performance and integration into your premises.

We guide you through the legalities of the permitting, rooftop leases, contracting, installation and commissioning and on-going maintenance.

Typically, our solar PV projects deliver significant savings with no upfront cost to customers over their 25 year life. In addition, there are carbon savings and other benefits to environmental, social and governance (ESG) programmes, as well as for investor interest.

Step towards a Net Zero Carbon Building: lowcarbonalliance.co.uk/net-zero



A 50kW solar PV system produces around 46,000kWh of energy per year in the south of the UK on average.



FIVE STEPS TO FUNDED SOLAR

Low Carbon Alliance will guide you through the process from start to finish with our in-house team of experts.

CONCEPT

During the concept development stage we will identify the scale of the opportunity at your premises producing a pre-feasibility study and formulating a strategy for the project.

STEP
01

DESK-TOP FEASIBILITY & PPA PROPOSAL

At this stage we require details of your total annual energy consumption and day-to day profile, from which we produce a detailed feasibility report including the initial design, expected performance of the system and a Power Purchase Agreement (PPA) price proposal.

STEP
02

SITE SURVEYS & DETAILED DESIGN*

Once the PPA price is agreed in principle, we develop the detail of the engineering solution. Site surveys are carried out on premises to determine roof condition, structure & electrical infrastructure. The Project Plan & PPA proposal will be refined before contracts are issued.

STEP
03

CONTRACTS, INSTALLATION & CONNECTION

Once contracts are signed, we order the equipment and agree a date for the installation. We project manage the installation of the system in accordance with the Project Plan and contractual requirements. The plant is then commissioned and tested.

STEP
04

OPERATION & MAINTENANCE

We manage & monitor the performance of the plant in real time & report to you quarterly. If you are on a funded solution, you will receive a monthly energy invoice. We take care of all the O&M contract elements so you can rest assured that it will continue to operate at optimum capacity.

STEP
05

*A credit check will be carried out on the proposed customer.

Project Case Study



CLS Holdings Plc **Project: Pacific House Solar PV Array**

CLS is a FTSE 250 commercial property investment company with over 6.4million sqft of future-focused workspace in the UK, Germany and France.

Following a review of renewable energy opportunities across CLS Holdings' UK property portfolio, Pacific House in Reading was selected as the preferred location on which to build a rooftop solar PV system, in order to contribute to the company's commitment to renewable energy generation.

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Project Case Study (cont.)

CLS Holdings Plc

Project: Pacific House Solar PV Array

Low Carbon Alliance performed the design and tender process, contractor selection, project management cost consultancy and project development services for the project.

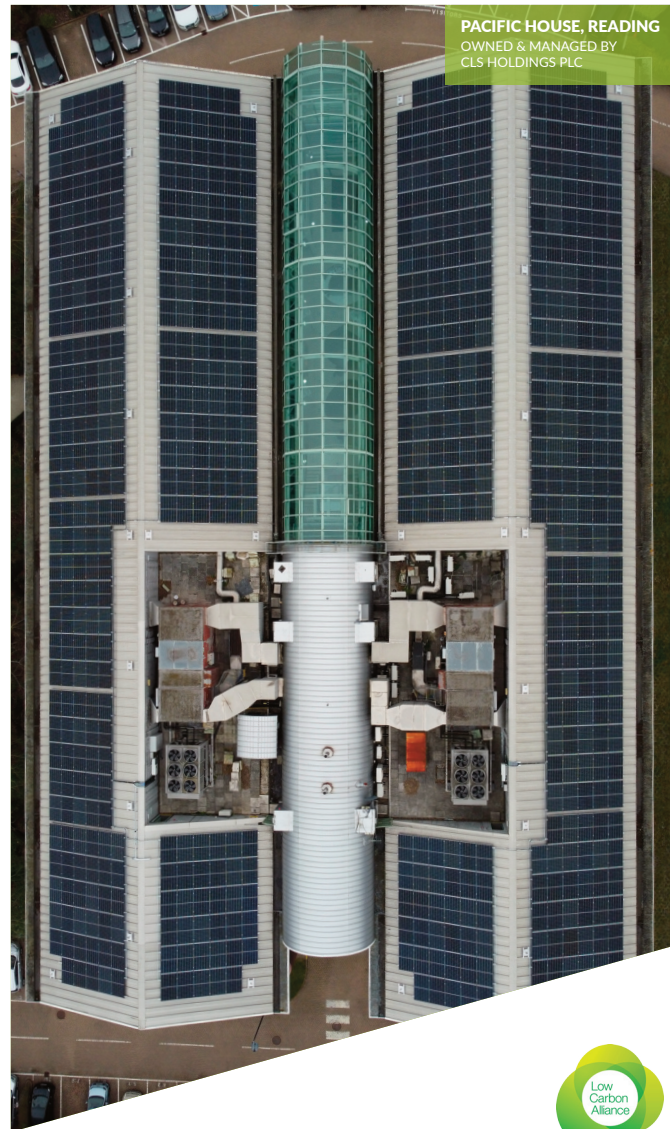
The solar PV system was installed over six weeks and included the installation of a new man-safe system facilitating both safe access and maintenance.

The overall capacity delivered through the system is 233kW per hour making it one of the largest office building rooftop PV systems in the UK.

Since completion, the system has replaced 36% of imported electricity and offset 28 tonnes of carbon dioxide.

“Under extraordinary conditions, the teams at LCA and NWT delivered our projects on time, as promised. Their professionalism and expertise can be relied on to provide high-quality work and successful outcomes that are helping CLS meet our Net Zero Carbon pathway goals, in line with our commitment to sustainability. We look forward to our continued partnership as we undertake the next phase of work on our portfolio.”

Patrick Sandell,
Property Manager, CLS Holdings Plc



SOLAR PV - THE FACTS

- **How much money can I expect to save?**

Our clients can save up to 30% electricity costs.

- **How much carbon is solar PV likely to save me?**

On average over a whole year, a 50kW solar system produces 46,342kWh of energy in the south of the UK. This CO2 reduction is equivalent to planting 542 new trees.

- **How long does the process usually take?**

From initial enquiry to generation allow 6-9 months. Timescales will depend on the size of the system and planning requirements.

- **How does the funding work and what are the upfront costs?**

The Funder pays for all the capex and opex associated with the project. If you decide to withdraw from the project after the surveys the funder reserves the right to seek reimbursement for the surveys carried out.

- **What are the main elements of the planning process?**

The main stages of project planning and development are permitting, lease agreements, contracts and sales. Some smaller roof-top systems are deemed permitted development which makes the process much quicker. However, locations near listed buildings or conservation areas may need a full planning application.

Low Carbon Alliance has a deep understanding of the planning requirements for renewable projects and will manage the whole process.

- **How soon can I expect to see the financial benefits?**

As soon as the system is generating, you will be displacing electricity from your grid supply with that generated on your premises.

- **What happens when the sun doesn't shine?**

Solar panels generate power during daylight hours even in the winter on a cloudy day. It may not be as much as on a sunny day but they will be generating.

- **What are the options for including an energy storage system as part of my rooftop solar PV project?**

Currently the cost of batteries do not make for a financially viable solution unless you already have an electric vehicle.

- **How do I maintain my solar PV plant after installation?**

LCA will provide all the maintenance needs for the system. If you are in an environment that has a lot of dust you may need to wash down the system with a hose from time to time.

- **Are there business rates on the PV system?**

The funder will be responsible for all business rates associated with the PV System.

Need more answers? Email your questions to:

solar@lowcarbonalliance.co.uk



THE SELF-FUNDED SOLUTION

Should you wish to self-fund your solar PV project, you can pay for only the feasibility study. This will provide you with the project financial model, including capex and opex, and your return on investment (ROI).

- The feasibility study will be charged as a stand alone item
- We will provide you with quotes for the surveys*
- Only the Installation Contracts and the Operation & Maintenance agreements will be required.

**payment required in advance*

The Team



**Simon J Crowe MRICS,
Managing Director**

Simon is a highly skilled, innovative chartered surveyor who has gained extensive experience working for the UK's leading real estate consultancies.

Simon established Low Carbon Alliance (LCA) to provide a professional consultancy focused on the development of projects that generate renewable energy or provide reserve power and balancing services to support a decarbonised UK energy system. LCA also advises investors in property on how to reduce carbon emissions whilst generating significant returns on investment through energy efficiency, onsite renewable energy generation and storage.



**Kieran Crowe MCIBSE,
Director - Head of Net
Zero Buildings**

Kieran is a mechanical and electrical engineer with 25 years of design experience. Over much of the past decade

he has worked exclusively in property management consultancy and applies his engineering experience to resolving challenges pertaining to property performance, comfort and energy usage.

Kieran advises on energy strategy for large estates, including a wide range of low carbon, renewable electricity and heating projects. Kieran is a qualified ESOS Lead Assessor and provides advice on energy legislation and compliance services including MEES and SECR.





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Just search 'Low Carbon Alliance' or look at
the links on our website at:
www.lowcarbonalliance.co.uk



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Contact Us:

Get in touch with our team today for an initial
discussion on how we can support you in
developing your solar PV project.

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