

# COMMERCIAL SOLAR SOLUTIONS

SPRING 2026



# ABOUT SOLIVUS

Solivus are UK market leaders in delivering lightweight solar solutions for buildings that can't have conventional solar fitted due to weight or fixing constraints.

In addition, we now offer a full suite of solar solutions: conventional solar panel systems, solar carports, battery energy storage systems, virtual power plant capabilities and finance options.

Our mission is to help the planet by cutting carbon from the built environment, which contributes to approximately 40% of total annual global carbon emissions.





# A COMPLETE SERVICE

Solivus can take care of **every aspect of your project**. From initial planning, consultation and design, right through to turning the system on.

We engage **Tier 1 contractors** to deliver projects in line with our rigorous design standards and quality control processes.

But that's not all. Once the project is complete, we have reporting apps and can help trade any surplus energy. We also offer ongoing operation and maintenance packages and can even help finance your project too.

We make it as easy as possible for our customers to start enjoying the benefits of generating their own green energy and **cutting energy bills and CO<sub>2</sub> output**.





# SOLAR SOLUTIONS FOR COMMERCIAL ROOFS





## WE HAVE 2 MAIN SOLAR SOLUTIONS FOR LARGE COMMERCIAL ROOFS



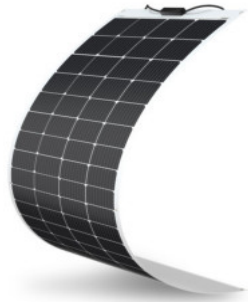
LIGHTWEIGHT PANEL  
SYSTEMS



CONVENTIONAL PANEL  
SYSTEMS



# LIGHTWEIGHT SOLAR PANELS OVERVIEW



The perfect solution for buildings without the structural capacity for conventional panels, due to weight or fixing constraints.

The panels are **lightweight panels** and making them an excellent choice for buildings with curved roofs or **aesthetic considerations**.

**Weight:**  
1.8-15 kg/m<sup>2</sup>  
(Up to 7x lighter than conventional)

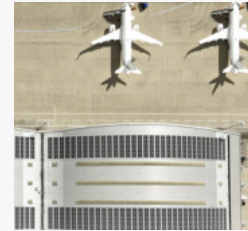
**Materials:**  
2mm polycarbonate board and silicone wafers. Flexible

**Mounting:**  
We have a range of mounting systems to suit most roof types

**Reflectivity:**  
Low reflectivity – as low as 1/35 of conventional panels

**Embedded carbon:**  
3-25g CO<sub>2e</sub>/kWh

**Efficiency:**  
19%-23%



**PERFECT FOR LARGE LIGHTWEIGHT BUILDINGS SUCH AS:**

AIRPORT HANGARS AND TERMINALS



SPORTS STADIUMS



LARGE-SPAN WAREHOUSES

# LIGHTWEIGHT SOLAR CASE STUDY

## FARNBOROUGH AIRPORT

### SYSTEM STATS

- 1.745 kWp system (terminal, hotel, hangars and control tower)
- 1.6 GWh of clean energy annually
- Saving 4,708 tonnes of CO<sub>2</sub>e over 25 years
- Payback of 4.4 years
- ROI of 573%
- 25% of airport energy demand met



Rooftop solar seemed like the solution to our energy needs, however, the weight of conventional panels and the iconic curves on our infrastructure meant that it was a real challenge. Fortunately, Solivus had the answer.

**ROB MARSDEN**  
CFO FARNBOROUGH AIRPORT





# SOLAR CARPORTS





# SOLAR CARPORTS

Car parks offer enormous potential for **green energy generation**.

We provide a **range of canopies** and solutions to suit different budgets and project specifications.

Solar carports create shade, offer drainage solutions and **can be paired with batteries and EV chargers** to transform, what is often, a business' largest and most underutilised asset.





  
SOLIVUS

  
SOLIVUS

# BATTERY SYSTEMS



# BATTERY ENERGY STORAGE SYSTEMS

Solivus provides a range of **Battery Energy Storage Systems (BESS)** designed to optimise the performance of solar arrays.

By storing solar energy, our systems ensure a **consistent power supply** - particularly critical for off-grid locations.

We offer **end-to-end implementation**, monitoring, and maintenance, all delivered with a focus on safety and reliability.

Our proprietary **AI software** further enhances battery efficiency **by maximising storage usage**.



## CONTAINERISED BATTERY STORAGE SYSTEMS

These larger systems are designed to work seamlessly alongside our solar installations, storing surplus electricity generated during the day for use when demand is higher or sunlight is limited.

The system shown above, designed for Balfour Beatty, was paired with a hydrogen fuel cell for a truly green storage system.



## SMALLER BATTERY SYSTEMS

Smaller battery storage systems offer many of the same benefits on a more accessible scale. These are perfect for smaller buildings such as modular site offices.

By storing surplus solar energy, these systems reduce reliance on the grid, cut electricity bills, and ensure a more consistent renewable supply.

# MODULAR BUILDINGS

SOLIVUS

Balfour Beatty  
Working in  
partnership with  
HS2





# MODULAR BUILDING SOLAR SYSTEMS

Developed in conjunction with global engineering and infrastructure company Balfour Beatty; the [Solivus Modular Buildings Solar and Battery System](#) is designed to reduce the reliance on diesel generators at construction sites.

Our [bespoke, lightweight off-grid systems](#) can be scaled to fit most modular buildings and offer our clients:

- [Reductions in diesel and CO<sub>2</sub>](#) at construction sites contributing to net zero targets. Diesel generators are only a back up.
- Significant [cost savings](#)
- [Safer](#), cleaner working conditions for employees





# VIRTUAL POWER PLANT

Tue April 1st 2025

## Buildings

Find a building

Distribution Centre London  
Airport Terminal

Warehouse 1  
Industrial estate Epping

CAR PARK  
Epping Lane

CAR PARK 4  
Long Stay Car Park

Distribution Centre  
Hounslow

Hounslow Heathland

Northern Perimeter Rd  
Car Park

## Warehouse 1

1 MW lightweight roof array

6 Months

Monthly

Weekly



# VIRTUAL POWER PLANTS (ENERGY TRADING)

Solar energy generated

75,129 kWh

Solar usage in building

61,217 kWh

Solar energy traded

13,912 kWh

CO2

4 tonnes

Surplus energy to trade

5,131 kWh



Trade with

Warehouse 4, Grove Road

TRADE



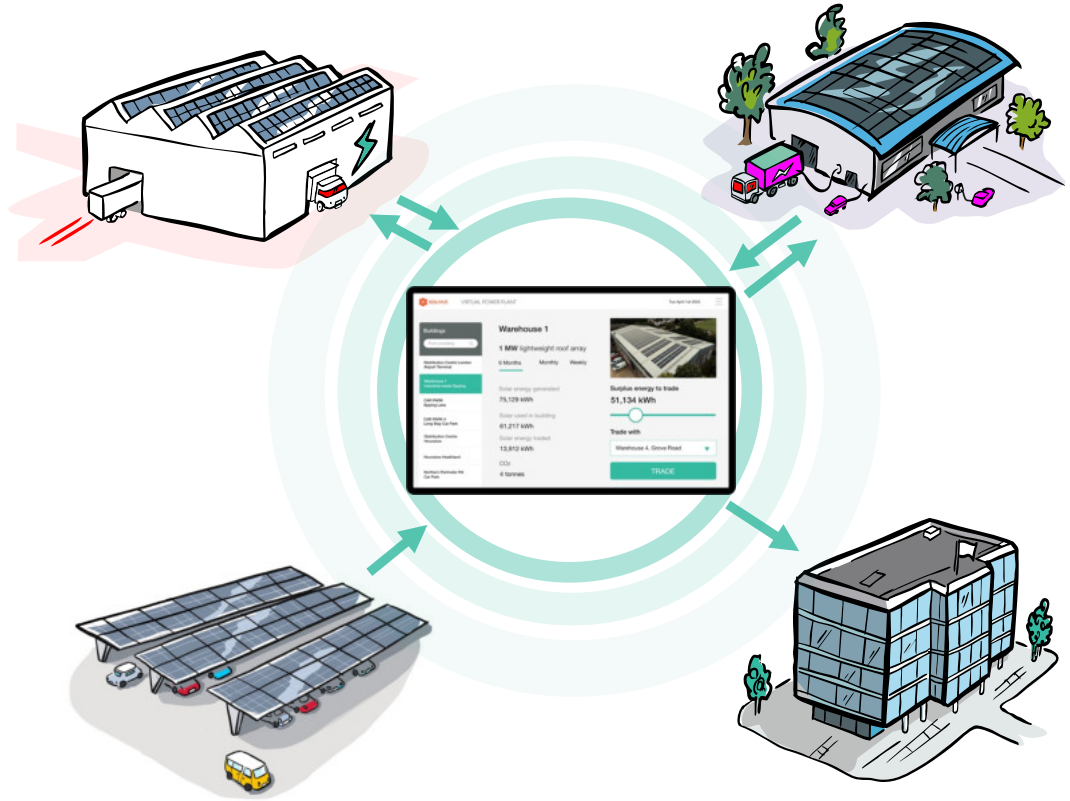


# CREATING A VIRTUAL POWER PLANT

Large commercial solar installations generate a lot of green energy – at times, **more than a building can use.**

In these situations, Solivus can create a **Virtual Power Plant (VPP)** enabling **excess energy to be traded** between different buildings.

The energy trading can be managed and monitored **via an app**, giving our customers **complete control** over their solar energy usage.





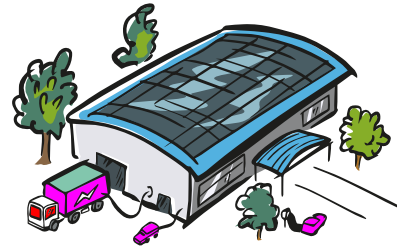
# FINANCE



# WE CAN HELP FINANCE YOUR PROJECT

Investing in solar energy is a smart choice for reducing electricity costs and promoting sustainability.

Up-front **capex** works for a business with available capital. Solivus, however, also offer **two flexible financing options**, tailored to suit clients with budget constraints.



## ASSET FINANCE

Suitable for businesses looking to spread the cost over time without large upfront expenses.

## POWER PURCHASE AGREEMENT (PPA)

Suitable for businesses wanting to enjoy solar savings with no upfront costs or maintenance responsibilities.

# CASE STUDIES



FARNBOROUGH  
AIRPORT

[READ HERE](#)



TESCO  
WATFORD SUPERSTORE

[READ HERE](#)



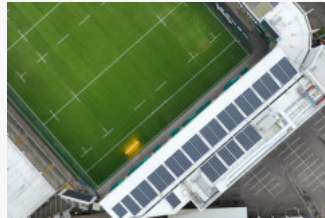
ASTUTE  
ELECTRONICS

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NORTHAMPTON  
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NORTHAMPTON SAINTS  
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BALFOUR BEATTY  
MODULAR CABIN

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COTSWOLD  
AIRPORT

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# OUR PARTNERS AND ACCREDITATIONS



**Balfour Beatty**

**TESCO**

**Cotswold** EGBP  
**AIRPORT**

FARNBOROUGH  
AIRPORT



# TO GET IN TOUCH

[BOOK A CALL](#)

[info@solivus.com](mailto:info@solivus.com)

+44 (0) 20 3885 9250



OUR  
PLANET  
OUR  
POWER!

