A GUIDE TO

SOLAR CARPORT SOLUTIONS

Shawton ENERGY

Kingspan | Recommended Supplier



WHO ARE SHAWTON ENERGY?

Shawton Energy Ltd provides fully funded, custom solar energy solutions for businesses across the UK. We understand the unique energy needs of various industries, offering end-to-end services from consultation and design to installation, maintenance, and support.

With extensive experience in the energy sector, our team brings a wealth of expertise in renewable energy, engineering, and project management, enabling us to deliver projects of varying sizes and complexity.

We are committed to providing high-quality solutions built to stand the test of time. With a focus on innovation, precision, and excellence, we deliver bespoke structural steelwork and architectural metalwork tailored to meet the unique requirements of every project.

Shawton ENERGY

WHY CHOOSE US?

Sustainability Expertise

We specialise in commercial solar and sustainable energy solutions, helping your business move confidently toward net-zero.

Enabled by Technology

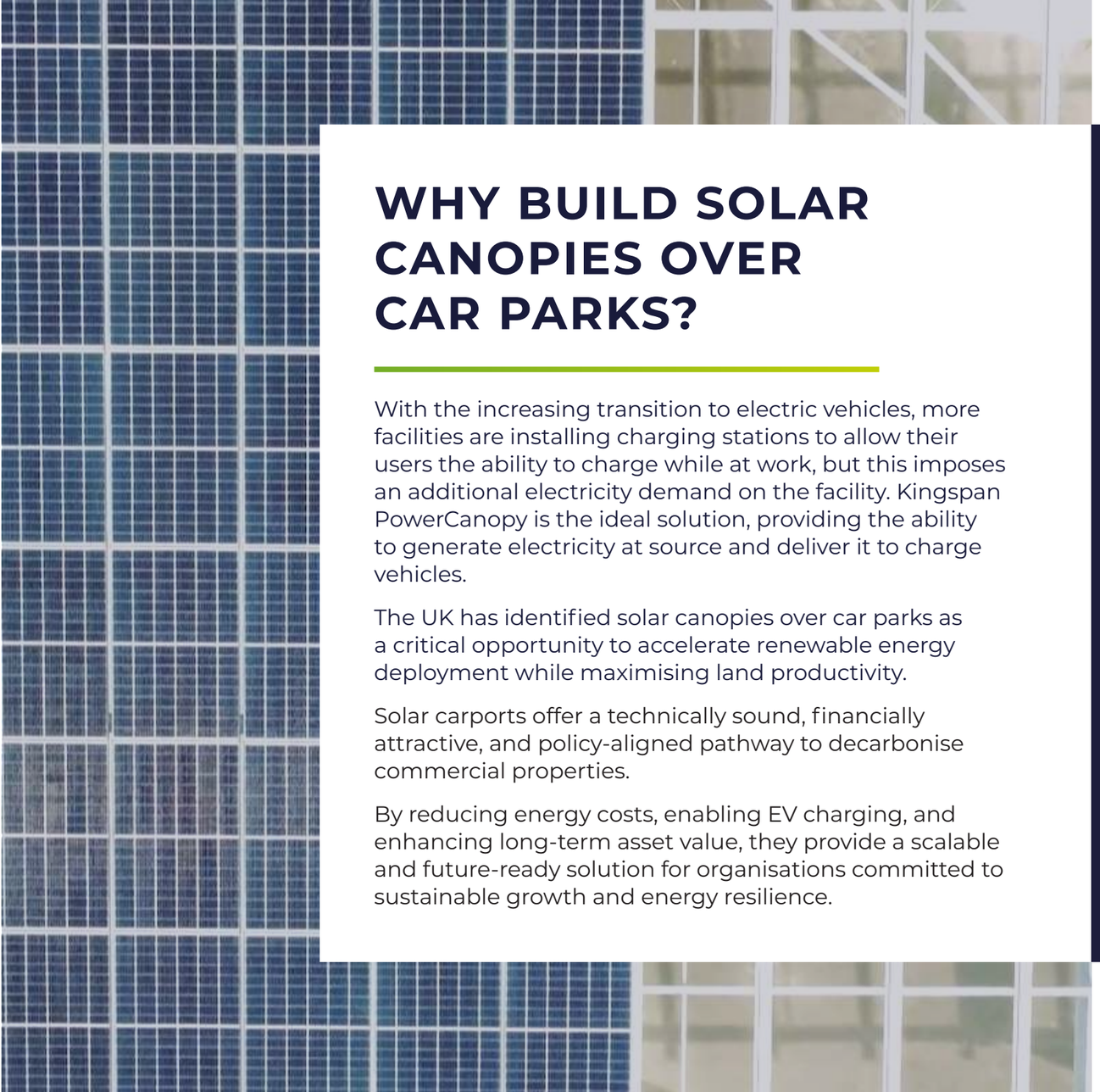
Smart monitoring and data-driven optimisation ensure full transparency through an easy-to-use online **portal.**

Integrated In-House Delivery

We manage every stage internally, from site analysis to maintenance, providing a smooth, non-disruptive installation.

Installation & Engineering

Our accredited engineering teams install and manage high-performing systems to ensure maximum energy generation.



WHY BUILD SOLAR CANOPIES OVER CAR PARKS?

With the increasing transition to electric vehicles, more facilities are installing charging stations to allow their users the ability to charge while at work, but this imposes an additional electricity demand on the facility. Kingspan PowerCanopy is the ideal solution, providing the ability to generate electricity at source and deliver it to charge vehicles.

The UK has identified solar canopies over car parks as a critical opportunity to accelerate renewable energy deployment while maximising land productivity.

Solar carports offer a technically sound, financially attractive, and policy-aligned pathway to decarbonise commercial properties.

By reducing energy costs, enabling EV charging, and enhancing long-term asset value, they provide a scalable and future-ready solution for organisations committed to sustainable growth and energy resilience.

Save & Generate Revenue

Solar PV carports let property owners generate clean electricity directly on-site, cutting reliance on grid-imported power. Where energy is consumed at the point of generation, savings are greatest, and any surplus can potentially be exported for additional revenue.

Policy Aligned Development

Solar carports directly support the UK's Solar Roadmap, which targets 45-47 GW of installed capacity by 2035. As dual-use infrastructure, they unlock productive value from existing car park land, removing the planning complexity of ground-mount solar farms entirely.

Integrated EV Charging

Pairing solar canopies with EV charge points and/or rooftop solar PV creates a future ready energy ecosystem. Co-location means solar power is used the moment it's produced, reducing grid load, cutting peak demand charges, and optimising infrastructure spend.

Enhance Asset Value

Beyond energy savings, solar canopies can help to lower long-term operating costs, as well as strengthen ESG credentials. Covered parking improves user experience and tenant appeal across retail, healthcare, hospitality, workplace and public-sector environments.

Flexible On-Site Energy

Solar canopies work alongside existing rooftop PV to boost total on-site generation, or stand alone where roof space or structural integrity is a concern. Modular systems scale to any car park and integrate cleanly with battery storage should that be required.

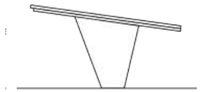
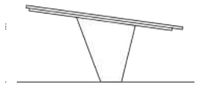
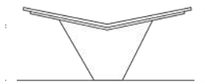
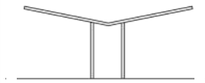
WHY CHOOSE KINGSPAN?

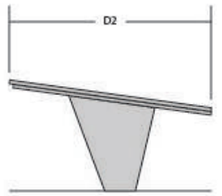
Kingspan PowerCanopy is a modular solar carport solution that offers design flexibility through six roof pitch designs, enabling a range of layouts and configurations. It generates electricity at source and delivers it efficiently for vehicle charging, supporting practical and sustainable energy use.

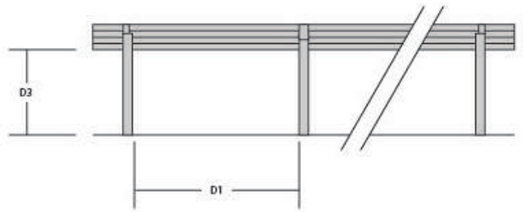
- Cost-effective modular design provides coverage to suit any car park layout.
- Single-source PV and canopy solution option.
- Innovative design allows PV modules to be slid into position and secured from below for quick, safe installation - compatible with most standard PV modules.
- Full watertight canopy achieved with PV module mounting system.
- Expert technical design support.
- Optional gutter solutions available to assist rainwater harvesting.

Kingspan®



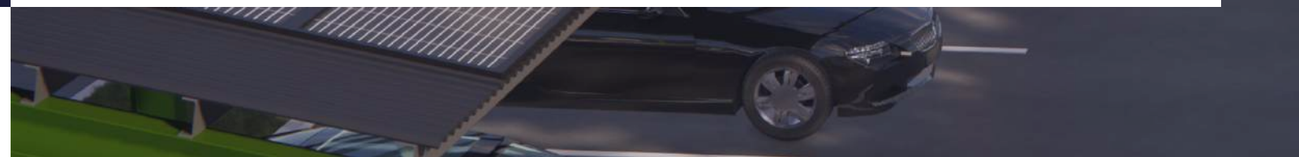
Design	Span (D1)*	Cover(D2)*	Clearance (D3)**	Roof Pitch	Parking Layout
	4.6m - 8.1m	5.1m - 5.8m	2.3m	5°/7.5°/10°	Single car parking row
	4.6m - 8.1m	8.6m - 8.8m	2.3m	5°/10°/12.5°	Double car parking row
	4.6m - 8.1m	12m - 13.7m	2.3m	5°/10°	Double car parking row
	4.6m - 8.1m	10.5m - 14.4m	2.3m	5°/10°/12.5°	Double car parking row
	4.6m - 8.1m	10.5m - 14.4m	2.3m	5°/10°/12.5°	Double car parking row





* Dimensions can be altered to suit requirements

** Minimum height can be increased the achieve specific requirements





BENEFITS OF A POWER PURCHASE AGREEMENT

Under a PPA, organisations can install solar PV car ports without taking on the upfront cost of the infrastructure.

A third-party provider typically funds, installs, and maintains the system, while the organisation agrees to purchase the electricity it generates at an agreed rate over a fixed term.

The arrangement sets out how that energy is used on-site, often helping to power buildings or EV charging, with any excess managed under the terms of the contract.

These agreements are usually structured over 10 to 25 years and can offer more stable and predictable energy costs than conventional supply arrangements.

They also help enable the rollout of new solar infrastructure by providing long-term revenue certainty for developers, while allowing organisations to make practical use of existing car park space to support their energy and sustainability objectives.

No upfront costs

The solar PV system is installed and funded by Shawton Energy, so you do not need to make a large initial capital investment.

Stable energy costs

A power purchase agreement gives you greater certainty over electricity pricing across the contract period.

Lower electricity bills

Electricity generated on site from solar PV is often cheaper than grid electricity in the UK, leading to immediate savings on your energy bills.

No maintenance responsibility

Shawton Energy typically handles installation, monitoring, and maintenance, so you benefit from solar power without the operational burden.



OUR PROCESS

01
Scope

We begin by thoroughly understanding your business needs, future energy goals, available roof or ground space, and site layout. This helps us design the most effective solar solutions tailored to your specific situation. If any repair work is required before installation, we offer a range of solutions to ensure your site is fully prepared for optimal solar performance.

02
Design

We develop and present an optimal solar panel design tailored for your business. Our goal is to deliver significant cost savings while ensuring the design aligns with your carbon reduction commitments. By understanding your unique energy needs and sustainability objectives, we create a solar solution that maximises efficiency and supports your long-term environmental goals.

03
Sign-Off

We facilitate the agreement and sign-off process for the Power Purchase Agreement (PPA) and lease agreements. This ensures that all terms are clearly defined and mutually agreed upon, providing a solid foundation for your solar project. These agreements outline the financial and operational aspects of your solar installation, ensuring transparency and alignment with your business objectives.

04
Install

We leverage our expertise to professionally install and operate solar generation systems on your premises. Our team ensures that the installation process is conducted promptly and with minimal disruption to your business operations. We are committed to delivering a seamless transition to solar energy, allowing you to benefit from sustainable power with confidence and efficiency.

05
Maintain

Under a PPA, we provide real-time management of your solar energy generation and supply, ensuring optimal performance at all times. Our team is dedicated to maintaining your equipment through regular servicing and prompt repairs, reducing downtime and increasing efficiency. This proactive approach ensures that your solar system operates smoothly and reliably, supporting your business's energy needs.

CASE STUDIES

Iceland
10 MWp PPA multi-site rollout
Solar rollout across distribution & retail sites.



King's Cross
8.6 MWp Solar Farm
Supplying clean power directly to King's Cross estate. Landmark example of off-site corporate PPAs via virtual PPA.



IGC
3 MWp Roof Top Install
Full turn-key solution, under a 25-Year Power Purchase Agreement.



Uniroyal
1 MWp
Installed over a 16 week period, with no disruption to the site.



Carlton Academy
817kWp over 7 sites
Solar deployment delivered with no upfront cost under a PPA.



INSTALLATION HISTORY & PROGRESS

405

Solar Installations delivered over the last 5 Years.

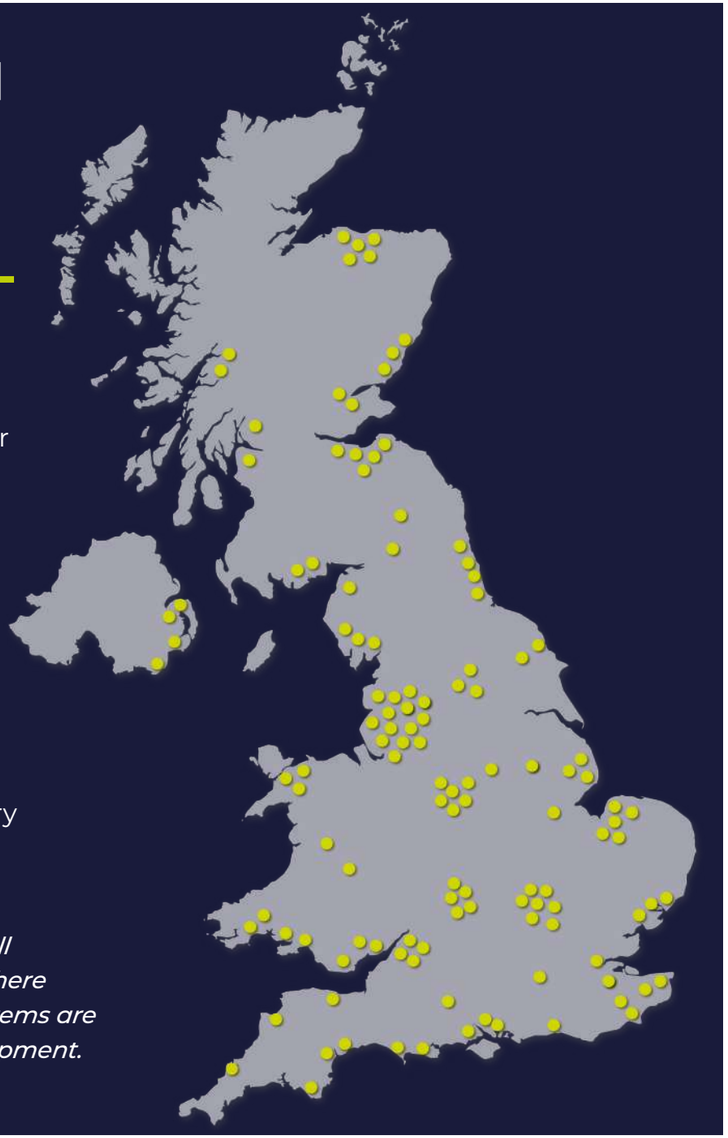
>100 MWp

Of clean energy operational today.

320 MWp

Pipeline launching from January 2026.

See the map on the right for all the locations across the UK where Shawton Energy Solar PV Systems are currently installed or in development.



FULLY FUNDED, TURN-KEY LONG TERM SOLUTIONS

Trusted by businesses across the UK, we help organisations take control of their energy future.

From initial consultation through to delivery and ongoing support, we provide a clear, practical pathway towards greater efficiency and long-term sustainability.

Speak to our team today to explore how we can support your business.

hello@shawtonenergy.co.uk

01925 794 874

shawtonenergy.co.uk

Shawton ENERGY