

part of **mitie**

power & grid

# Pioneering renewable energy installations.

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Discover award-winning Solar PV by Custom Solar.

01

## INTRODUCTION

# An award-winning solar PV partner

Custom Solar is a pioneer in UK solar, delivering large, complex solar photovoltaic (PV) projects for clients across the private and public sectors. From design to installation and maintenance, we help accelerate your journey to net zero through the adoption of renewable energy.

Working with leading finance partners, developers, energy consultants and direct clients, we deliver end-to-end green energy solutions in all environments, from FTSE listed corporations to local authority owned assets.

Together with G2 Energy, ESM Power, and Rock Power Connections we make up Mitie Power & Grid. This powerful team combines deep domain knowledge, specialist experience, and a national network of leading resources and capabilities to help you reduce emissions, increase efficiency, and secure your energy supplies for a decarbonised, sustainable future.

Since 2011, Solar PV Systems, installed by Custom Solar:



Won 'Commercial Solar & Storage Project of the Year' in **2018, 2020 & 2022**.



Saved on average **62% on client's energy bills** each year\*



Supplied enough electricity to power **15,000+** average UK homes.



Achieved the equivalent of planting **1.8million trees**.



Produced enough energy to charge **50,000+** EV vehicles.



Saved **45million kgs** of CO<sub>2</sub> being released into the atmosphere.

\*Based on medium sized business consuming average 45,000 kWh/year



## The right solar array for every site

We deliver integrated solar PV solutions to help our clients reach their decarbonisation goals. With extensive knowledge of the ever-evolving planning landscape and the ability to tailor each design to your unique requirements, we'll make sure you get exactly the right solution for your facility.

We develop rooftop and in-ground solar arrays for large facilities such as manufacturing plants, warehouses and schools – whether it's a new build or you're looking for ways to maximise underutilised space. Plus, we'll keep your installation maintained and operational long after it's connected.

Our specialist in-house design and engineering capabilities mean we self-deliver to ensure high-quality, cost-effective solutions for every project. So, if you want to reduce your energy costs, decrease your reliance on the grid or hit your ESG targets, our team can guide you through the entire process.

## 02 | WHAT WE DO

# Delivering **expert support** for the entire project lifecycle

Our extensive experience with solar PV systems is supported by Mitie's nationwide network of quality engineers and other energy businesses, like Rock Power Connections and G2 Energy. Together, we create successful end-to-end energy projects that will keep delivering for you for years to come.

We work with building owners and occupiers, landlords and tenants; whatever your situation, we can guide you through the process.

**Design > Development > Installation > Maintenance**

## Design

We have a track-record of designing rooftop and in-ground arrays and carports for existing sites around the UK. Alternatively, if you're building new facilities, we'll work with you to incorporate solar from day one.

As a firm believer in fully-bespoke, right-sized arrays, we aim to design solutions that meet your power needs exactly. To achieve this, we provide a comprehensive suite of design engineering services, including:

- Feasibility assessments
- Full solar PV, CAD and PVSol designs
- Consultancy support
- ROI calculations
- Specification and tendering

## Development

When you know what you want to achieve, we'll get started on making it happen. Plus, as legislation changes, and planning permissions evolve to encourage solar investment, we'll steer you through the regulatory landscape for a friction-free project.

Our planning and development service can support you with:

- Technical surveys
- G99 and DNO approvals
- Planning permissions and permitted development approvals
- Structural design
- Finalised detailed designs and specifications
- Business case building and final proposal

## Installation

We have the best people on hand nationwide to install your solar system, with an experienced in-house team backed up by Mitie's expansive network of engineers.

Each project is conducted with safety and project management best practices at its core – and we'll make sure we limit disruption for the rest of your operations while we work. You can trust us to handle:

- Construction plans
- Risk assessments
- Health and safety method statements
- Installation and commissioning
- Energisation

## Maintenance

We don't believe in simply building a solar array and leaving you to it. Instead, we offer continued support to help you get the most out of your installation, making sure it's always operating at its best.

Our specialist ongoing maintenance services include:

- Asset management
- Remote system monitoring
- System performance reporting
- Equipment and warranty monitoring
- Annual service visits

## 03 OUR CLIENTS

# Supporting rooftop and in-ground solar PV systems for public and private clients

Custom Solar works alongside clients in many different sectors, including:

**Critical Environments | Education and Schools | Utilities | Industry & Manufacturing | Transport | Central Government | Local Government**

Here are a few highlights from our expansive client base:

## Developing a first-of-its-kind carport canopy PV system

Portsmouth City Council chose Custom Solar to develop a carport canopy PV system; the first of its kind for a UK port. Our system can generate a total of 1,128.5 MWh of electricity – with 50% of that coming from the canopy alone.

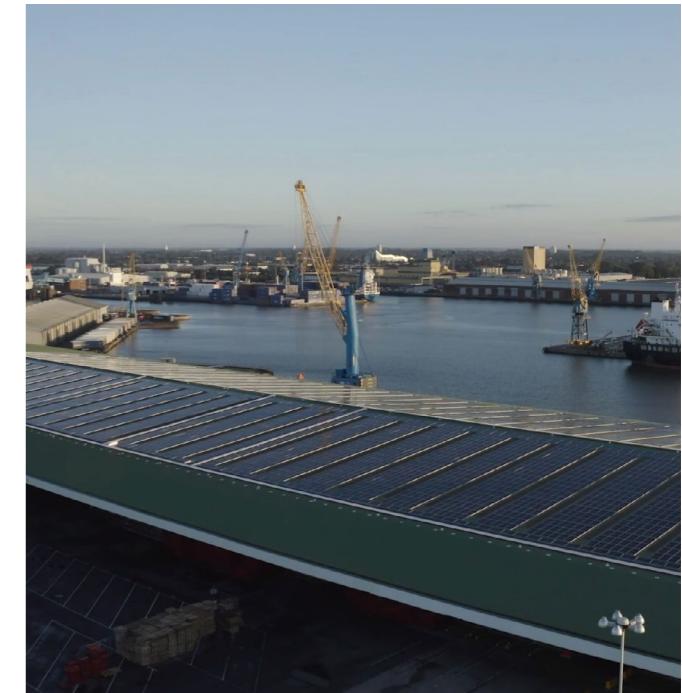
- 1,128.5 MWh electricity generated
- 204 t CO<sub>2</sub> emissions reduction

## Championing sustainable growth

As part of its “Good Growth Strategy”, Arla Foods wanted to establish a reliable, sustainable and affordable energy plan.

So, we used more than 2,000 solar PV panels to create a renewable energy system capable of generating 762 kWh of clean energy, which can power its warehouse entirely.

- 762 kWh electricity generated
- 137 t CO<sub>2</sub> emissions reduction



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We are delighted with our new solar panels. Custom Solar were fantastic from start to finish, making planning and installation of our panels easy, from the initial quote, through to activation. The installation of the panels has allowed us to reduce our energy usage from the grid by 40% and prevented the release of 15 tonnes of CO<sub>2</sub> into the atmosphere annually.

Benjamin Grunwerg, Managing Director, Grunwerg

## Reducing carbon emissions from brick manufacturing

We constructed a 2.75 MWp solar PV system to help Forterra turn its Desford plant into the largest and most efficient brick factory in Europe – all while helping the UK move towards its target of Net Zero Carbon by 2050.

The system included 6,789 panels and 20 inverters. And it has put Forterra on track to emit 25% less CO<sub>2</sub> from each brick it produces.

- 2,291.8 MWh electricity generated
- 436 t CO<sub>2</sub> emissions reduction

## Turning schools into renewable energy hubs

We conducted solar projects across 56 education sites to help Hampshire County Council reduce emissions in the region. We installed 2,373 solar panels in total; the sites can now generate a collective total of 950,000 kWh of electricity, reducing annual emissions across Hampshire by 235 t CO<sub>2</sub>.



The commissioning of the solar array was a smooth process, thanks to Custom Solar's thoroughness and expertise. They meticulously tested and inspected every component to ensure that our system was operating at peak performance. Their commitment to quality and customer satisfaction was evident in every aspect.

Harry Coates, Managing Director, Just Paper Tubes



## Providing electricity for manufacturing and the wider community

The IMK Group wanted to reduce energy costs so it could keep up its rate of delivery for customers. To help, we designed and installed a 715 kWp solar array at IMK's Kettering head office.

In addition to powering the Group's manufacturing in the area, the projects scale means a significant surplus of green energy can be fed back into the grid for the wider community.

- 667 MWh electricity generated
- 313.55 t CO<sub>2</sub> emissions reduction



Custom Solar have demonstrated their expertise and experience throughout the project and have been successful in delivering a solar system safely, on time, and to budget.

Gary Hotchkies, Operations Director, IMK Group



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## Start your solar journey today

Wherever you are in your journey, we can help you accelerate your switch to renewable energy. Get in touch to find out how.

**Custom Solar Ltd**  
Sunbeam House  
Broombank Road  
Chesterfield  
S41 9QJ

[customsolar.co.uk](http://customsolar.co.uk) | [sales@customsolar.co.uk](mailto:sales@customsolar.co.uk) | 01246 488 488