

# EnSmartBuild

**Commercial solar PV and battery storage solutions. Professional design and supply of affordable and scalable solutions with high returns on investment.**

To help businesses and commercial operators, both large and small, cut their energy costs.



# Introduction

Solar PV and battery storage is now an affordable and cost-effective solution for many businesses to cut their energy costs, with payback within 5~7 years or even less.

With advances in battery technology, there's also a wider range of battery storage options - making solar PV and battery storage the go to solution for cost-conscious businesses looking to protect themselves from spiralling energy costs.

The key is self-generation, storage and utilisation of electricity at source rather than sending it back to the grid. This together with using lower tariff, off peak grid electricity to charge the batteries for use at peak times, means even more money can be saved.

Every business and every commercial solar PV/battery storage solution is different with different requirements, load patterns and budget! Getting the “sweet spot” right in terms of design, affordability, return of investment, warranty and peace of mind is where we come in.



# Who are we?

**Entrust Microgrid is a dedicated smart microgrid and renewable energy technology company based right here in the UK.**

We are experts in commercial microgrids and battery storage and as such, we:



- Have a dedicated and experienced in-house design team who specialise in designing the best and most cost effective microgrid solutions.



- Offer quality battery storage solutions from top OEM manufactures with robust supply chains and strong product and performance warranties.



- Provide a range of modular and containerised battery storage solutions ranging from 115kWh right through to 3300 kWh (per container) at competitive prices.



- Have our own patented technology for hybrid DC- and AC-networked microgrids that operate at highest power efficiency.

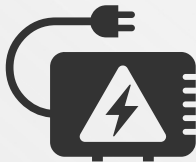


- Supply innovative and unique EV charging solutions (EnSmartEV) to support fast and rapid EV charging via solar PV and battery storage.



# What do we do?

Every commercial solar PV and battery storage installation is different. There is no one size fits all and this makes it a real challenge to find the right solution at the right price.



At Entrust Microgrid we pride ourselves in both the design and supply of quality and cost-effective battery storage and commercial microgrid solutions that cut electricity costs and deliver great return on investment.

We tailor our designs to focus only on best fit solutions that are based on clear evidence and business cases that take account of the following factors:

- Customer needs, drivers and requirements
- Rooftop/ground space for solar PV installation
- Load usage and patterns (including half hourly data)
- Grid restrictions or any limitations
- Budget and cost limitations



# Solutions

From there we create a detailed specification and single line diagram and agree terms for the supply of smart microgrid solutions with battery storage.

## Typical solutions include:

### Small commercial microgrid with solar PV and battery storage solution

*\*Full data sheet available*



Solar PV  
30~70kWp



Combined **115kWh** battery storage with **30kW** PCS

As a combined PCS/battery storage this system is easy to install and maintain. Standing at 2.1m high, the unit can easily be installed in a plant room or even outside.

The unit comes complete with:

- air conditioning
- fire safety protection
- real time data monitoring/reporting system.



# Solutions

## Mid-range commercial microgrid solar PV and battery storage solution

*\*Full data sheet available*



Solar PV  
50~100kWp



Combined **168kWh** battery  
storage with **60kW** PCS



A larger combined PCS/battery storage unit.

This system is also easy to install and maintain. The unit measures 2.1 metres high and so can easily fit inside a plant room or outside.

Air conditioning, fire safety protection and real time data monitoring/reporting system are also included.

# Solutions

## Larger commercial microgrid with solar PV and battery storage solution

*\*Full data sheet available*



Solar PV  
100~1500kWp



Containerised battery storage options ranging from **250kWh** through to **3300 kWh** per container

Bespoke battery storage containers/units in variable sizes depending upon requirements. Modular units that enable the right level of battery storage to be determined for each system/user.



# So, why trust us?

Established in 2018, Entrust Microgrid has its own commercial scale (622kWh) battery storage installations operating here in the UK – installations that also support EV charging.

Operating from our offices at Lancaster University, we are pioneers in smart microgrid technology with our own patented hardware and software solutions.

With supply contracts with world leading OEM battery and power electronics manufactures, we are best equipped for the professional design and supply of commercial solar PV and battery storage solutions.

All solutions come with product and performance warranties, as well as manufacturer support to help with installation and operation.

Entrust Microgrid... technology you can trust.

## Contact for further information:

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