



SECURCOM

A TRANSITION TO CLEAN ENERGY, IS ABOUT MAKING AN INVESTMENT IN OUR FUTURE

ENERGY SOLUTIONS WITH SOLAR PV



WHAT ARE THE BENEFITS?

- Investment returns are estimated between 3 and 5 years.
- You protect yourself from paying more and more every year
- You will consume solar energy, CLEAN ENERGY!

ABOUT SECURCOM SOLAR

Your Solar PV Installation will be designed by our in-house engineers here at Securcom Solar. All our work is carried out and maintained by our own specialist team. We also follow up every installation with a 24/7 callout promise, and are happy to take on any existing systems - whether that be to upgrade the systems to meet MCS standards, or ongoing maintenance.





WHY CHOOSE US?

We're proud to have helped many customers to save money on energy bills. If you have been thinking about making the switch to renewable energy and you still haven't found a company, we believe we can make a difference.



WHAT WE OFFER

ROOF MOUNT



EV POINTS



GROUND MOUNT



AC MAINS WORK



BATTERY STORAGE



BATTERY STORAGE

This all in one outdoor battery and inverter solution is an ideal option to bulky lorry containers BESS solutions. It not only offers the benefit of a more manageable size, it also offers future scalability.



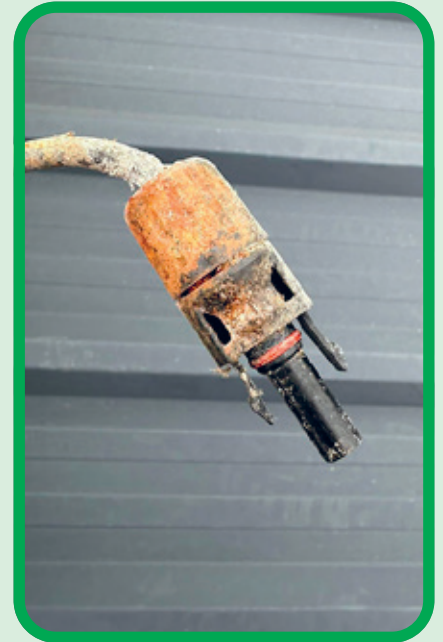
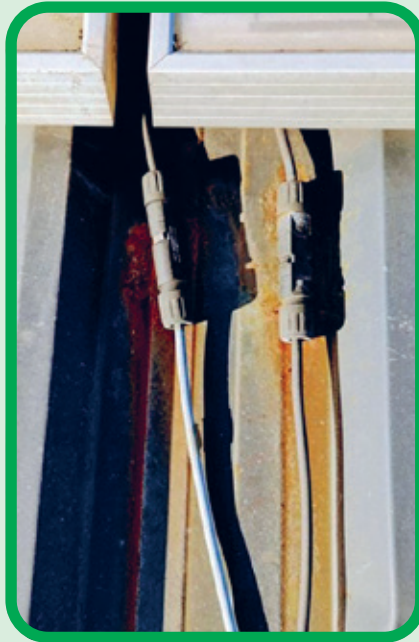
All in one 3 Phase outdoor battery and inverter cabinet



- Versatile option to bulky battery container units
- Safe and reliable operation CAT LFP battery cells
- Double fire suppression system design
- 1+1 redundancy design
- Integrated BMS/EMS suitable for various applications
- Simple user friendly operation and cloud control
- Economical and efficient with 100% DOD improving ROI
- Expandable as required
- Energy saving HVAC design

SERVICE & MAINTENANCE

Solar PV systems are extremely reliable but like most technologies, from time to time they may incur a fault or problem. Securcom offer our customers a variety of one-off or regular services so they continue to reap the maximum benefits for many years to come.



TESTING & COMMISSIONING



Testing and Commissioning to include:

- NICEIC Electrical AC testing Certification
- MCS Electrical DC Certification
- Instructions for further Maintenance and Aftercare



PANEL CLEANING

Securcom work closely with a local company to offer panel cleaning. Solar PV systems that are regularly cleaned, on average perform 10-30% better than those which do not benefit this attention.



Securcom Systems recommend an annual inspection of the systems by a technician to confirm it is in good working order and carry out any necessary preventive action to avoid future, unforeseen issues with the systems. See below to see what an annual maintenance visit includes

AN ANNUAL MAINTENANCE VISIT INCLUDES

Visual inspection of components to include:



PV Modules



**Solar PV
Modules-check**



**Mounting
System**



**Inspect
Framework**



Inverters



**Functionally
& Cable
Connections**



**Generation
Meter**



**Check Meter
Display & Function**



**Cabling &
Connections**



**PV Array to
Mains Supply
Connection**

Heath Farm consists of x8 poultry units, x1 Anaerobic digestion plant, x1 ORC Unit and multiple farm buildings all connected back into the farms private 800 KVA Transformer. The poultry units are fed from a connected 400amp supply via the LV pillar on the Transformer. Being the main load on the connected supply the Solar PV needed to be designed and installed to cover the parasitic load on the site supply. Taking into account the already installed farm AC submain design and 400amp Bus-bar feeding the poultry units, we made sure the proposed Solar PV design would not overload the system. We designed the PV system with the roof mounted Solar PV connected to x8 25KW PV inverters. Each 25Kw inverter has a 50amp supply connected into Local control room distribution board. The newly installed Solar will feed back into the supply covering the site load allowing maximum export from the connected Anaerobic digestion plant and the ORC Unit. We installed a SOLIS EPM (export power manager) to monitor connected Solar generation not only to comply with the requested G99 Export limitation scheme but also for remote monitoring.

This is giving the customer the ability to track the performance in real time of the Solar PV. To comply with G100 THE NATIONAL GRID requested (as well as the export limitation system) a 'reverse power relay' to trip the relevant generation. We designed a bespoke panel to interrupt the mains supply feeding the poultry units. With a ConApp Inteli Pro Module monitoring whole site Power flow, this would then disconnect the newly installed generation if limits exceed set points.



We are extremely pleased with our Solar PV installation undertaken for us by Securcom Solar on our poultry sheds at Heath Farm, right from the very start the help and assistance of all the team at Securcom has been excellent, from the design stage, working out loads on our sheds and utilizing all the existing electricity site infrastructure to keep the cost down but maximize the output.

Any excess electricity not used on-site is exported into the mains network. Securcom Solar arranged all the connection and G100 witness testing with the National Grid, this turn key package was a real peace of mind for us.

We as a poultry business have been working with Securcom Systems for over 25 years, the back up and support we have received over this period has given us complete confidence that they will be able to look after our Solar installation for many years to come.

Regards,
Phil Mann

*Director
bedstonegrowers*





Following Commissioning, at the end of a new Installation Customers receive:



- Electrical test AC/DC Test Certification
- Handover Packs to include:
 - Data sheets for PV Modules and Inverter
 - Our Workmanship warranty
 - Shading/Maintenance information
 - Certificate of Installation
 - DC PV Array Test report
 - Start Up/Shut Down Procedure



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Get to know more:
www.securcomsolar.com

Unit 2, Cobnash, Industrial Estate, Kingsland, Hereford HR6 9RW

Tel: 01568 708 687

E-mail: admin@securcomsystems.com