



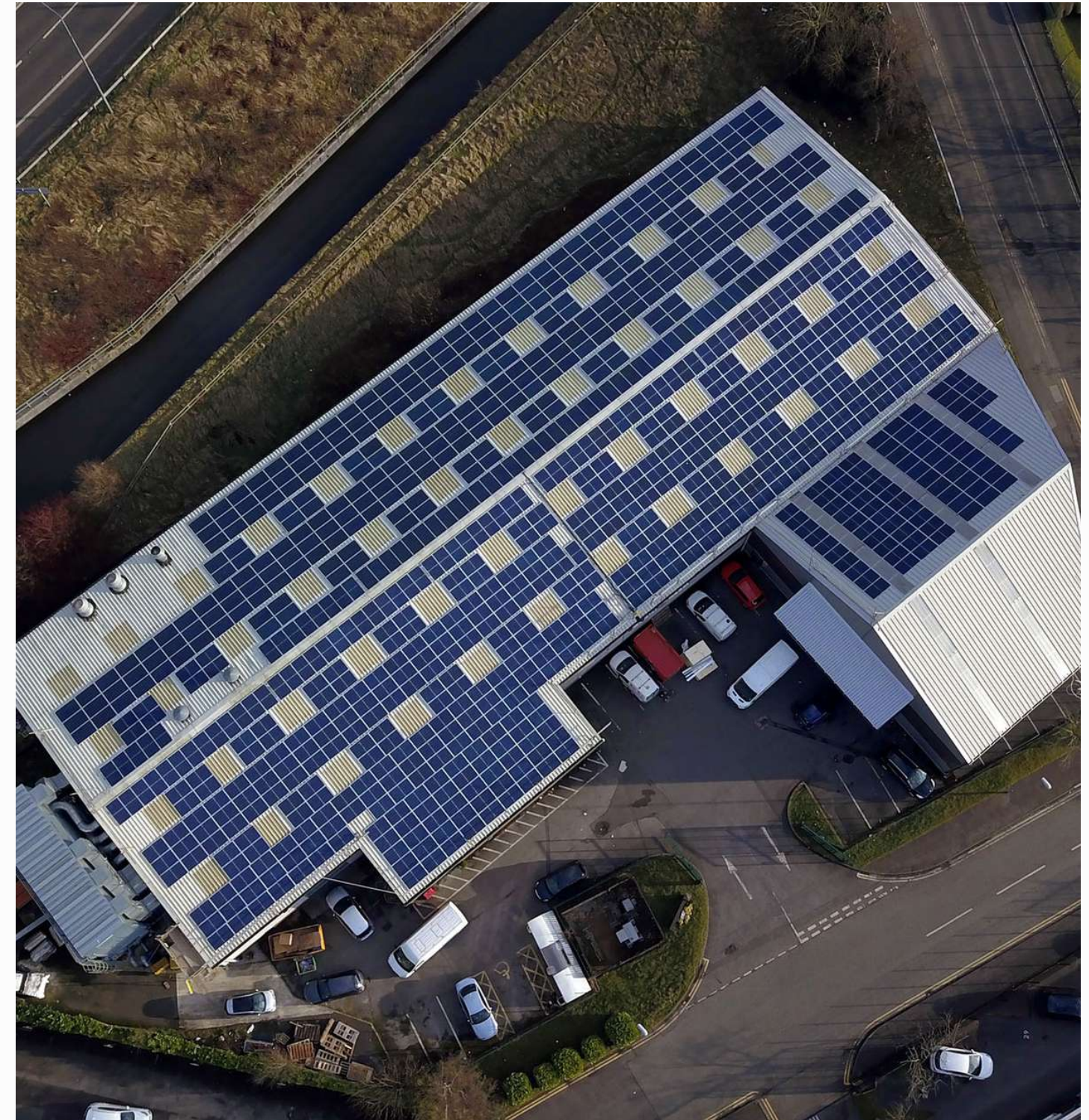
OPERATIONS & MAINTENANCE

SOLAR PHOTOVOLTAIC SYSTEMS



OUR EXPERIENCE

Perfect Sense Energy have extensive experience in Solar Installation from feasibility studies right through to the management & supply of equipment, construction, connection to the grid and subsequent Operation and Maintenance (O&M) for Roof projects from 10 kWp to 1 MW.





OUR AGREEMENT

Our O&M Agreement is essentially designed to protect your investment. Perfect Sense Energy monitor the system's performance, conduct a scheduled programme of site maintenance and provide the owner with a regular report of production and financial returns.

THE SERVICES

The O&M contract consists of both Scheduled and Unscheduled maintenance services with an appropriate incident call-out facility to maintain your PV Plant.

All operation and maintenance tasks are performed by qualified personnel, for either HV or LV electrical work on live installations, specialised in the operation of solar grid-connected solar PV sites and applying all necessary safety measures in compliance with the current legislation.

The testing, observations and reports produced will include (but are not limited to) the factors which affect both the performance and safety of Solar PV systems.



DETAILED VISUAL INSPECTION

- Inspect the inverter to make sure it does not show signs of cracking or excessive wear.
- Inspect PV modules where visible
- Check modules for excessive soiling
- Inspect mounting system
- Inspect all system isolation points and look for signs of corrosion or damage.
- Perform a visual inspection of the interior and exterior of the inverter. Look for signs of water, rodent, or dust intrusion into the inverter.
- Check the inverter for error messages
- Do a full test and inspection on the DC side of the system
- Carry out a system performance check
- Visual inspection of the panels
- Checks of the inverter, meter and other components
- Current and voltage check
- Document findings for all work performed.



GENERAL SITE INSPECTION

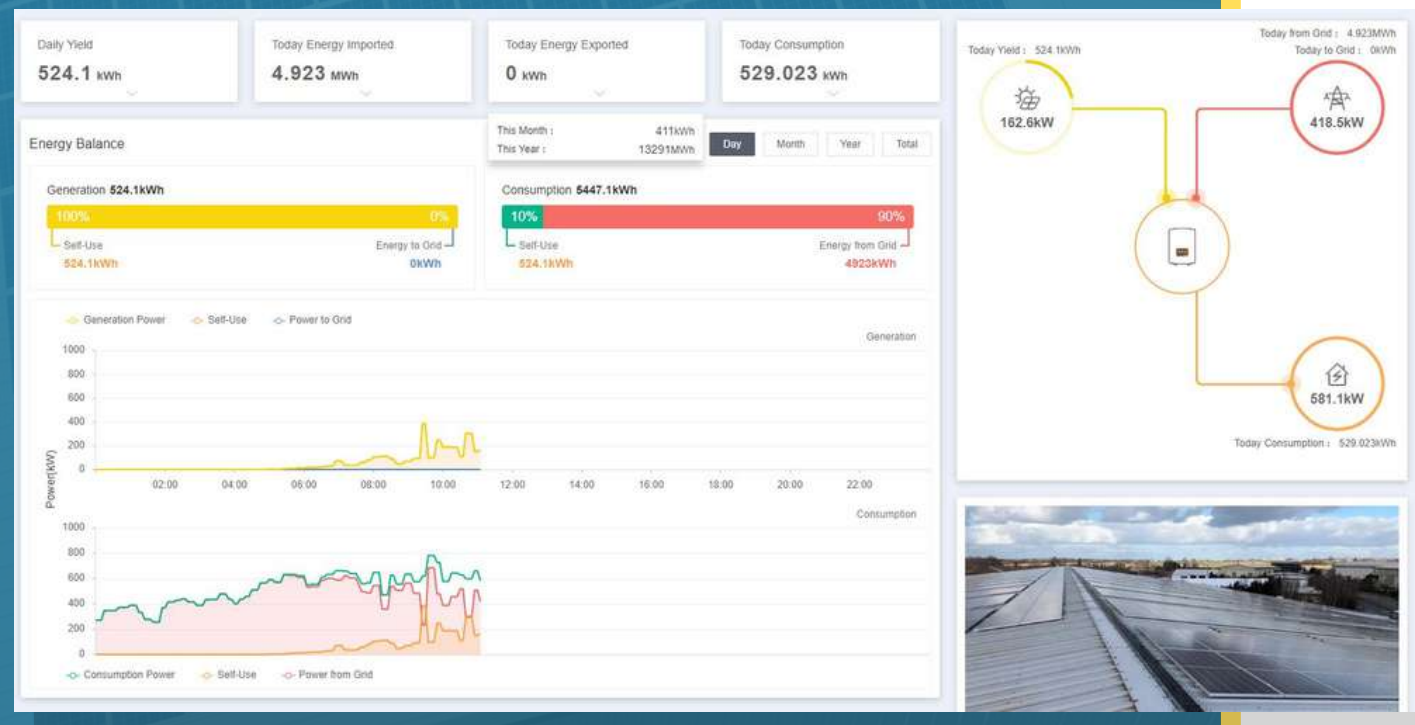
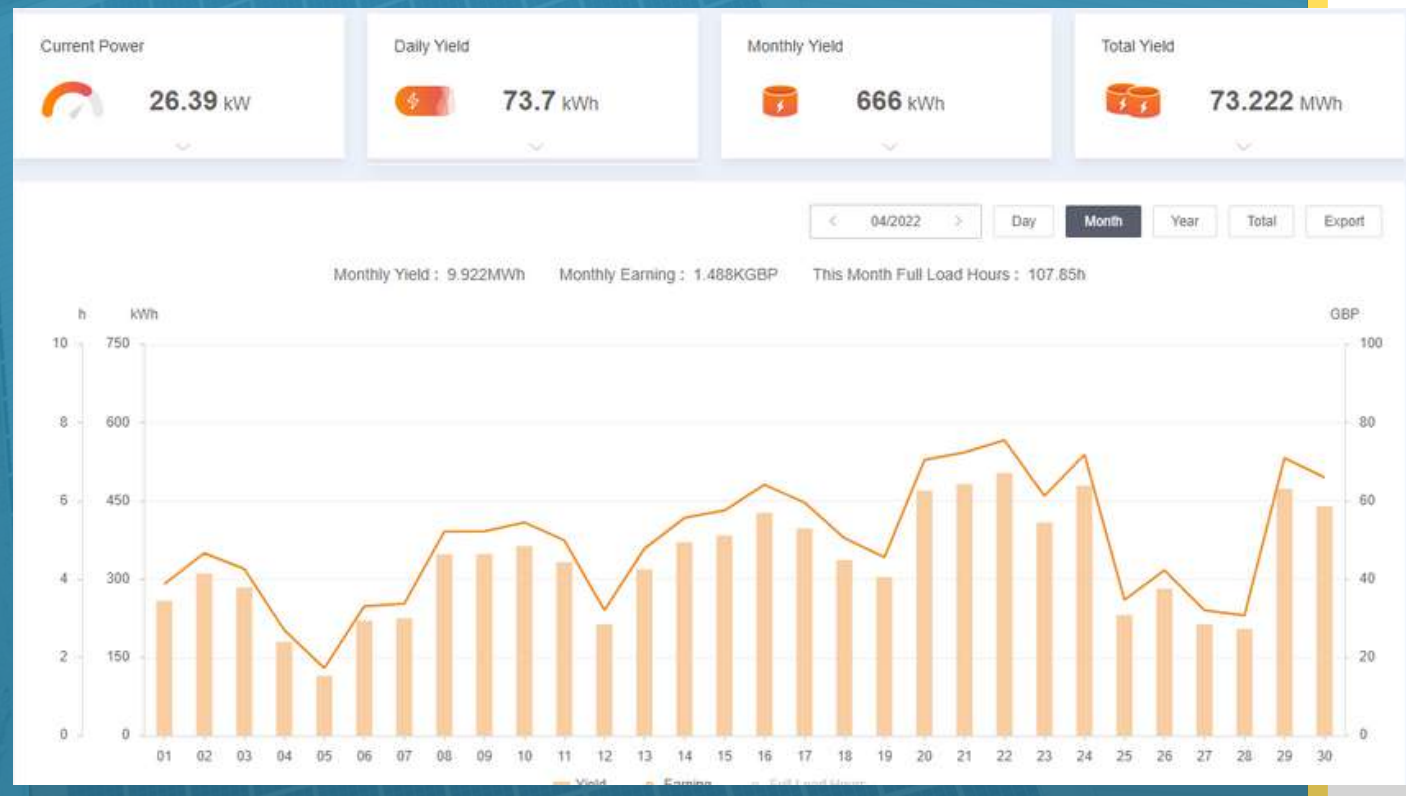
- Check for vegetation growth or other new shade items
- Check for potential shading Issues
- Confirm proper system warning signs are in place
- Check for corrosion on the outside of enclosures and the mounting system where visible
- Check for cleanliness throughout the site - there should be no debris around the inverter vents
- Check for displaced wires and cabling



REGULAR MONITORING

Our monitoring platform allows Perfect Sense Energy to remotely analyse the performance of your PV system with information updated daily.

The portal summarises the systems generation of energy and revenues (£) during the last period. In-depth analyses show the actual yield and the effective capacity utilisation of your photovoltaic power plant whatever the weather. EPM fitted at the time of PV install, gives precise and accurate Generation, Consumption & Energy Supply back to the Grid.



SOLAR MONITORING LEVELS



	LEVEL 1	LEVEL 2	LEVEL 3
Real-Time Monitoring	✓	✓	✓
Generation Data	✓	✓	✓
Inverter Data	✓	✓	✓
Site Consumption Data		✓	✓
Site Solar Self-Consumption Data		✓	✓
Site Solar Export Data		✓	✓
Monetise Export Revenue			✓



GET IN TOUCH

If you require any further information, please do not hesitate to contact me or my team.



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