

Electricity has been harvested from sunlight through the photovoltaic system since the 19th century. It makes sense to continuously monitor your photovoltaic solar power plant, not only to prevent costly yield losses, but also to operate your plant reliably over its entire service life. Long operating times demand professional plant management, for which Powertrack will efficiently manage all necessary technical and commercial tasks.

Solarvest Powertrack O&M program enhances the likelihood of your system performing at or above its projected production rate and cost over time. It therefore reinforces confidence in the long-term performance and revenue capacity of your asset.

Your photovoltaic power plant will only deliver full returns on your investment if it runs as smoothly as possible over its lifetime. Moreover, being prepared for risk is crucial: the problem need not be a short circuit in the inverter station, it might simply be a rodent gnawing through a cable or a shadow being accidentally cast on the modules. The bottom line is that there is a threat of diminished output or even downtime that could have a negative effect on returns.

- Inspections and maintenance work not carried out may result in damage to individual components and necessitate even greater repair work.
- Damage, such as from a bolt of lightning or the cables catching fire through overheating, may cause losses of up to 30 % of forecast yields.
- The utility company can disconnect your solar power plant if the regulations on inspection and maintenance are not fulfilled and as an operator, you may have to pay expensive fines.
- Failure of individual components may invalidate a warranty if certain precautions were not carried out professionally, such as the necessary cooling of the inverter station, proper cabling, etc.
- If work on the site or on the site is not carried out by certified experts, you could be made liable and be required to pay damages.
- Environment conditions such as wind, bird populations, dust, pollen, industrial emissions, construction pollution, and high insulation may affect the performance of a PV system.

**We can relieve you of these worries.**

## WHY O&M?

- Increase efficiency and energy delivery
- Decrease downtime risk
- Extend system lifetime (25-40 years)
- Early maintenance reduce cost of lifetime O&M
- Ensure safety and reduce risk
- Enhance appearance and image
- Often required in financing and warranty

**KUALA LUMPUR**  
A-25-05, Dataran 3@UK, No 2, Jalan 181,  
80200 Pasirang, Johor, Singapore  
T +603 2922 9112 F +608 91 4943

**PUTRAJAYA**  
26, Jalan K11A, Taman Intermewah,  
13600 Putrajaya, Putrajaya  
T +604 362 8173 F +604 363 1795

**ALOR SETAR**  
4198-4198, Jalan Gasing 2, Taman Gasing,  
Jalan Lempay, 06000 Alor Setar, Kedah Darul Aman,  
T +964 722 8715 F +964 724 8715

CALL CENTRE 1700-81-4611  
invest@solarvest.my

[www.solarvest.my](http://www.solarvest.my)

OPERATION & MAINTENANCE OF  
SOLAR PHOTOVOLTAIC SYSTEMS

**SOLARVEST**  
Turning Sunlight Into Investment



## OPERATION & MAINTENANCE OF SOLAR PHOTOVOLTAIC SYSTEMS

IMPROVING PERFORMANCE,  
SECURING RETURNS

CALL US NOW FOR FREE CONSULTATION  
**1700-81-4611**

## CHOOSING POWERTRACK

Reliably operating a solar power plant requires no major investment nor heavy efforts from the investor. Solarvest will efficiently ease your workload and risk by offering three-level O&M services designed specifically to protect your solar plant. Investors can choose from Powertrack Performance Monitoring, Powertrack Performance Basic and Powertrack Performance Premium.

### 24/7 CONSTANT MONITORING OF SYSTEM PERFORMANCE

#### POWERTRACK PERFORMANCE MONITORING

Our monitoring system allows you to keep a remote eye on your photovoltaic system and to view the yield data reliably and comfortably. Our service package includes analyzing this data 24/7 and evaluating it on a daily basis. Should there be a malfunction, our service staff will be immediately notified by text message so that we can react immediately.

Powertrack will monitor activities on the Plant, its power generation, performance ratio, specific yield, faults, warnings and error messages. All data will be documented and securely stored by Solarvest in accordance with the reasonable instructions of the owner and will be made available to the owner upon request (instantly/routine/yearly).

### PREVENTIVE CHECKING OF SYSTEM HEALTH

#### POWERTRACK PERFORMANCE BASIC

Our expert staff carry out routine inspections and maintenance, checks all the operating hardware, coordinates with the certified sub-contractors and the utility company involved. We make sure you are in compliance with all regulations, including the statutory audits and documentation.

Our planned preventive maintenance includes routine visual/instrumental checks of modules, inverters, station, structures, cabling, monitoring system, grounding and thermography. This package includes service of the Performance Monitoring package and is ideal for customers who are looking to leverage on existing project quality, and where PV system health is the main priority.

### FULL O&M SERVICE AND CONSULTANCY

#### POWERTRACK PERFORMANCE PREMIUM

When full-service and maximum solar power system availability and production is essential, choose Performance Premium. On top of all services offered in the Monitoring and Basic package, we will carry out planned environmental operations such as cleaning of modules and vegetation control.

This includes immediate fault detection, corrective maintenance with stringent reaction time and detailed reporting. We will also support clients on spare parts replacement and warehousing control. We supply customized O&M services based on specific site requirements. A more affordable option to one-off maintenance is also available – we will calculate and present your maintenance and repair costs based on fixed parameters. Our staff will gladly provide an individual offer if you are interested.



SICK OF THE UNPREDICTABLE PERFORMANCE

# YOU CAN COUNT ON POWERTRACK

WE SECURE AND OPTIMIZE YOUR PLANT'S PERFORMANCE ON AN ONGOING BASIS

- We understand our clients' needs as we are invested in solar farms too
- The solar farms we are currently monitoring average 97% technical availability per calendar year at minimum
- Certainty of spare parts with immediate access to our large warehouses
- We monitor all components and ensure timely replacement of individual components as required in contracts
- Our 50+ internal service team and trained contractors are ready to provide services when needed
- Our on-site readiness ensures that potential downtime is kept to an absolute minimum
- Real-time remote monitoring with automated data analysis and visualization

PowerTrack™