

# Operations management and maintenance for solar PV power plants

Focus on your core business secure in the knowledge that your assets are performing optimally. A Wärtsilä operations management and maintenance solution is a proven way to optimise the productivity and profitability of your solar PV power plant throughout its entire lifecycle. The solution also increases the lifetime of your power plant in a safe, reliable and environmentally sustainable way.

## GUARANTEED PERFORMANCE

When Wärtsilä manages the operations of your solar PV power plant, you can expect optimal efficiency and productivity as well as maximised performance. Lifecycle cost guarantees can also be part of the agreement, ensuring that costs stay at an agreed level.

## OPERATIONS SURVEILLANCE

Our expertise centres are responsible for on-site operations and maintenance activities. Dedicated operations personnel can monitor and review performance 24/7 both on-site and online. Performance data is used for trend analysis, allowing us to undertake solar panel cleaning and predictive maintenance even before problems arise.

## PREDICTIVE SERVICES

Our predictive services include risk analysis, proactive safety analysis and advice, performance monitoring and analysis, asset performance optimization, and asset maintenance. Together, these services ensure that your power plant operates at optimal efficiency.

## KEY BENEFITS

Wärtsilä Operations management and maintenance for Solar PV power plants covers every aspect of the day-to-day operation, performance monitoring, and related maintenance and management of your Wärtsilä-delivered solar PV plant.

- Includes operations management and scheduled maintenance
- Guarantees performance
- Ensures predictable lifecycle costs
- Minimises risk
- Maximises the productive lifetime of your power plant



## DELIVERY SCOPE

### MAINTENANCE MANAGEMENT

Maintenance management services ensure guaranteed asset performance. Our maintenance management experts plan all scheduled maintenance and organise manpower, as well as order and coordinate spare part deliveries. After completing any maintenance, we issue a detailed report of what was done.

### REPORTING

We provide performance reporting for the power plant in the form of monthly and annual reports. Monthly reports cover such variables as energy output, performance and alarm logs. A monthly report summary covers the forced outage log, any performed maintenance and failure analysis. The annual report is a summary of the monthly reports and includes annual totals for performance parameters like produced energy and performance ratio.

Wärtsilä Operations management and maintenance for solar PV power plants is designed for Wärtsilä-delivered utility-scale solar PV power plants with secure connectivity.

The solution covers the following areas:

- Operations surveillance
- Guaranteed performance ratio
- Performance tracking, advisories and reporting
- Technical support and troubleshooting
- Dedicated on-site maintenance teams
- Preventive and predictive maintenance
- Maintenance management including planning and logistics
- Human resources, health and safety management
- Recruitment and training of local personnel



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