



Operation and Maintenance of Photovoltaic Systems



FULLY INTEGRATED SERVICE PACKAGE

www.belectric.com

MONITORING AND REMOTE OPERATIONS **EXTENDED PARTS AND SERVICES** **FULL SERVICE AGREEMENT OPTION**

Remote Monitoring and Troubleshooting: Plant monitoring & rapid fault response increases equipment availability and reduces downtime



Routine Services: 6 and 12 month maintenance according to BSI O&M manual and work procedures



Preventive Maintenance: Replacement of parts and annual maintenance procedures



On-Site Support: On-site operations including troubleshooting and technical advisory services



Spare Parts Package: Forecasting, warehousing and replenishment via advanced Return Merchandise Authorization (RMA) processes



Availability Guarantee: Customers who choose this level of support qualify for secure energy harvesting



Unplanned Maintenance: Unplanned maintenance including on-site inspection and repair options to reduce repair costs and downtime



Condition Monitoring: Advanced equipment and analysis programs proactively detect impending issues



Plant Performance and Life Extension: Failure forecasting, advanced inspection technologies and system upgrades



PLANNED

UNPLANNED





BELECTRIC

Operation & Maintenance

Electricity can be obtained from sunlight with practically no wear and no maintenance. Yet it still 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 we will gladly take all the technical and commercial tasks off your hands.

A CONSTANT OVERVIEW OF YOUR SYSTEM: BELECTRIC REMOTE 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.

ON THE SAFE SIDE

- Installation and maintenance with international on-site service from a single source
- Trained service team of over 50 in-house maintenance engineers
- Certainty of spare parts with immediate access to our large warehouses
- Real-time remote monitoring of photovoltaic systems
- Automated data analysis and visualization
- Error documentation and annual maintenance report

SMALL INVESTMENT WITH BIG IMPACT

Reliably operating a solar power plant requires no major investment. A more affordable option to one-off maintenance is a maintenance and repair contract that can be transparently calculated based on fixed parameters. Our staff will gladly provide an individual offer if you are interested.





Turn-Key Service Solutions Operation Guaranteed

Choosing BELECTRIC means choosing technology with decades of proven endurance. And if you wish, BELECTRIC Service International offers a **Full Service Agreement** including a comprehensive operations and maintenance plan, ensuring our power plants continue to perform to the highest possible levels of performance.

The generation of electrical power from our solar power plants requires very little maintenance is required. Continuous monitoring of each power unit is advised to prevent avoidable yield losses. The long service life requires professional management: BELECTRIC takes care of all technical tasks worldwide. Around the clock, our team of experts currently monitors over 1.1GWp of PV facilities, including systems installed by BELECTRIC, as well as by other companies.

Our service level agreements are designed to provide flexible and optimum care for your plant. Our global service network with its dedicated staff supports predictable performance at all times. With our BELECTRIC 360° Service we provide a remote power plant monitoring, regular inspections which include visual and function checks, cleaning services, on-site support in event of fault and detailed maintenance reports.





THE BELECTRIC ANNUAL CHECK-UP: MONITORING IS GOOD, INSPECTION IS BETTER

BELECTRIC takes care of the **Operation and Maintenance** of all components involved in operating the plant, including regular visual inspections and functional checks. It is much like having a car serviced. An on-site inspection is performed periodically to make sure your plant functions correctly and is protected against future faults. There are many tiny details in the electrics or mechanics that you cannot check, evaluate or quickly repair by yourself. Instead, you can trust in the experience of our trained service team. Only the correct diagnosis of a fault will save lots of time and money.

In the **BELECTRIC annual check-up**, all plant components are examined carefully by experts, in particular the inverters, solar modules, substructure, electric wiring, switchgear, sensors and meters. Service duties performed include cleaning and verification of all protective and safety installations. Faults are eliminated immediately, all necessary servicing and repair work will be performed upon agreement.

BELECTRIC ANNUAL CHECK-UP:

AC connection

Solar modules

Inverters

Electric wiring

Substructure & attachment





BELECTRIC is one of the most successful enterprises in the realization of free-field solar power plants and utility-grade energy storage systems. Since 2001 the company group has constructed over 280 solar pv power plants with over 1.5GW PV capacity. At BELECTRIC, engineers and project developers conduct interdisciplinary research in all areas of solar pv technology

and battery storage systems for the development of innovative technologies. As one of the largest O&M provider globally BELECTRIC's full-integrated services support continuous operation, giving higher energy yield and therefore high return on investment across life-cycle. Further information can be found at www.belectric.com

OPERATION & MAINTENANCE



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