

# Operations & Maintenance

## O&M



# reliable economical customised



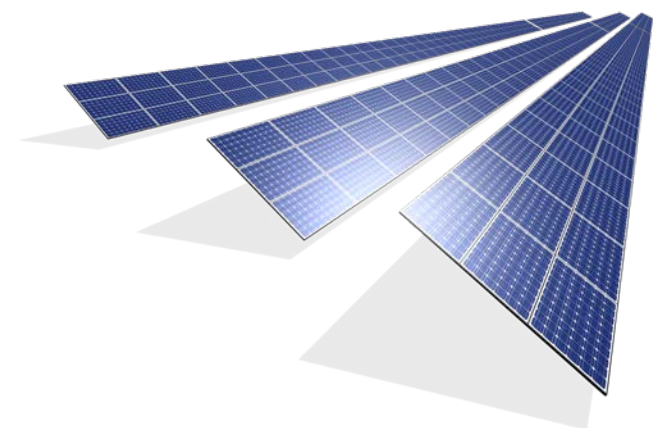
Competent technical management ensures trouble-free operation of your PV plant.

**A photovoltaic system needs to generate income reliably to meet the financial expectations.** In addition to the irradiation, technical availability is therefore the most important factor for your profitability - and the only factor that can be influenced individually.

Our competent technical operational management staff and our on-site service staff will help you to achieve the best possible plant availability every day.

Since 2001 Goldbeck Solar GmbH has been designing and building photovoltaic power plants. From the outset, we provide our customers and their plants in Germany and in other European countries professional Operations & Maintenance services.

Our staff takes care of more than 400 installations every day. Whether ground mounted or roof top, central or string inverters, thin-film or crystalline module technology - our dedicated technical operational managers are the right contact persons for your PV plant as they have permanent training and years of experience.



## Our services

- **Technical operational management** incl. active remote monitoring on a daily basis
- Vendor-compliant inspections and planned maintenance
- **Fast fault** analysis and fault clearing
- Provision of all data and information in a highly available **monitoring portal**
- **Corrective Maintenance** and **Repowering**

We are also offering our professional Operations & Maintenance services for third-party PV plants. We would be glad to provide you with an individual offer.

## Your benefits

Profit from the professional Operations & Maintenance services of Goldbeck Solar and secure the yields of your PV plant:

- **High plant availability** through active remote monitoring
- **Long lifetime** of the components through vendor-compliant maintenance
- **Securing** your investment through fast response times
- **Maximum transparency** through our extensive monitoring portal
- **Predictable Operational Expenditures**





**Solutions for technical management and maintenance**

We focus on the adherence to manufacturer specifications to preserve warranty claims of the customer and consider the individual customer-, plant- and project-specific requirements for a safe-, compliant- and yield-optimized plant operation.

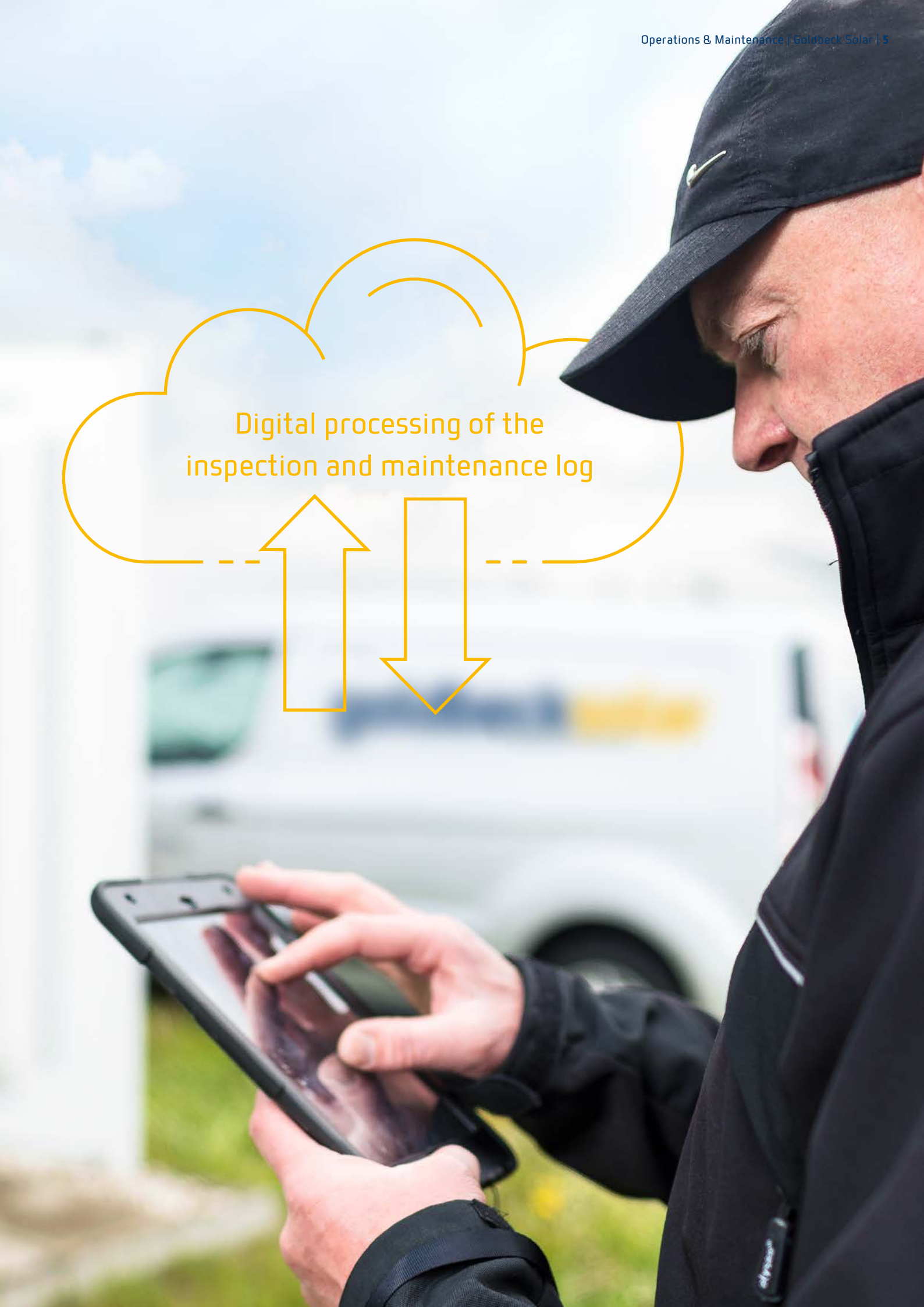
The basic building blocks of our service packages are the technical operational management including the daily remote monitoring, the provision of extensive monitoring portal and the regular inspection and planned maintenance work on site. Thus, we are regularly on-site with our own staff and always have an eye on your PV plant.

**Optional Services**

In addition to our standardized service packages, we also offer you optional individual services:

- Safety checks
- Module cleaning
- Thermographic analysis of the modules and AC- and DC-connections
- Ground keeping and maintenance of green roofs
- Corrective maintenance by own service staff
- Advisory on spare parts inventory
- Advisory on warranty extensions

Due to our know-how from the plant design and construction, complex conversions or extensions of plants can also be carried out.





### Competence and solidity

Goldbeck Solar GmbH offers you the highest reliability and financial stability for a long-term, successful cooperation. The credit index of the credit rating agency Creditreform confirms to us a "very good credit rating" and top marks.

We are internationally, nationally and regionally represented in the centre of the industry:



### Professional monitoring system

Your PV plant is monitored by our technical operations managers using the monitoring system. Error messages are reliably detected and faults quickly rectified.

The monitoring system also enables analyses in full detail depth and provides long-term and secure data storage.

### Ticket system

Access secured by customer-specific log-in

### Highly available monitoring portal

Access via iPhone® and Android® apps

User interface available in many languages

### Logbook

Customer-friendly visualization of measured data



Through a reliable monitoring, you always have full transparency of the most important data of your PV plant.

## Competence – For you on site

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