



Operations & Maintenance

O&M



reliable economical customised



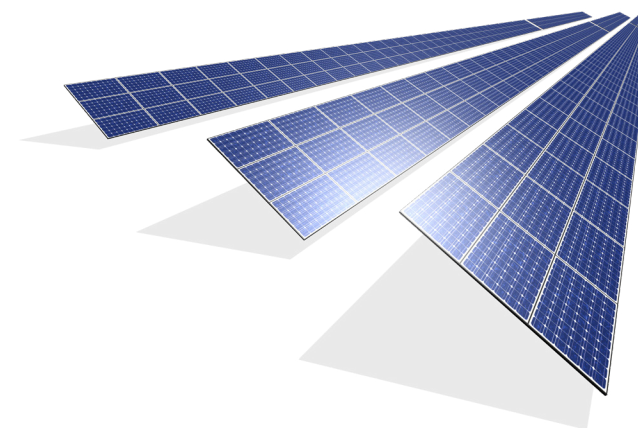
Competent technical management ensures trouble-free operation of your PV plant.

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 Europe and North America professional Operations & Maintenance services.

Our staff takes care of more than 400 installations globally, 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 North America offers you the highest reliability and financial stability for a long-term, successful cooperation.

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

Headquarters North America

GOLDBECK SOLAR Canada Corp.
219 Dufferin Street, Suite 101A
Toronto, Ontario
Canada M6K 3J1
Phone: + 1 416 907 0408
info.na@goldbecksolar.com

Western Canada Office
2891 Sunridge Way NE, Suite 210
Calgary, AB
Canada T1Y 7K7
Phone: + 1 416 907 0408
info.na@goldbecksolar.com

Eastern Canada Office
168 Hobsons Lake Drive, Suite 301
Halifax, NS
Canada B3S 0G4
Phone: + 1 416 907 0408
info.na@goldbecksolar.com

GOLDBECK SOLAR USA, Inc.
718 University Avenue, Suite 210
Los Gatos, CA 95032
USA
info.na@goldbecksolar.com

Headquarters Europe

GOLDBECK SOLAR GmbH
Goldbeckstrasse 7
D-69493 Hirschberg a.d. Bergstraße
Germany
Phone: + 49 6201 8777 5678
info@goldbecksolar.com

Netherlands

GOLDBECK SOLAR Nederland B.V.
Meander 901
6825 MH Arnhem
Netherlands
Phone: + 49 6201 8777 5678
info@goldbecksolar.com

Spain

GOLDBECK SOLAR España S.L.
c/o Goldbeck Solar GmbH
Goldbeckstrasse 7
D-69493 Hirschberg a.d. Bergstraße
Germany
Phone: + 49 6201 8777 5678
info@goldbecksolar.com

Mexico

GOLDBECK SOLAR México S.A. de C.V.
Av. Santa Fe No. 170 Piso 6-1-04
Col. Lomas de Santa Fe
01219 Ciudad de México
Phone: + 52 55 9172 8690
info-mexico@goldbecksolar.com

Chile

Solarnet Chile Spa
Av. Sta Maria de Chamisero 14700-36
CP 9340000 Santiago de Chile
Phone: + 56 9 7785 2668
claudio.alemany@solarnet.energy



na.operations-maintenance@goldbecksolar.com

www.na.goldbecksolar.com