SOLAR POWER SOLUTIONS
Building a world of opportunities in solar energy
METKA EGN is a world-class EPC and O&M contractor for utility-scale solar power projects. Building on its extensive experience of medium - large scale solar projects, the company is well positioned to meet the challenges of the rapidly growing global solar market. With a strong in-house engineering capability, global scope and unmatched responsiveness, METKA EGN designs and delivers high quality solar projects for its clients world-wide.
METKA EGN is positioned to meet the challenges of the rapidly growing global solar market.

**Total Solutions**
METKA EGN is expert across the full range of solar power applications, ranging from stand-alone solar parks to complex projects with integrated energy storage. The decades of experience of the METKA group in the thermal power sector, also makes us an ideal partner for hybrid applications, which combine the advantages of renewable energy sources with conventional power generation. Within the domain of electrical infrastructure, we have significant experience and engineering capability essential for the successful integration of solar power to the grid.

**Our Clients**
METKA EGN is strongly focused on serving major clients in the solar power sector, with a customer portfolio which includes some of the leading renewables investors globally. We aim to develop long-term partnerships with our clients, supporting their growth by consistently delivering quality projects around the world.
We have the experience and capacity to support solar projects from inception, throughout the development and construction stages and for the complete lifetime of the plant.
METKA EGN is a leading international contractor providing complete turn-key solar power solutions for utility scale PV projects. We offer both full EPC scope including panel supply, as well as EPC for balance of system (BoS) according to client needs.

- Full turn-key EPC responsibility
- Optimized in-house engineering & design
- Procurement strategy based on approved tier-1 suppliers
- Energy storage integration and hybrid solutions
- Electrical substations and grid interconnections

Based on our substantial project development experience, we selectively target project development opportunities. We aim to add value through a collaborative approach with local and international developers and investors.

- Site identification and assessment
- Energy yield studies & optimization
- Environmental permits
- Electricity grid interconnections
- Planning and building permits
- Project Development agreements
- Greenfield & Brownfield Development
- Project Pipeline Acquisition
- Financial feasibility
- Power Purchase Agreement Analysis
- LCOE optimization

We are experts in O&M for solar power plants, offering a full range of plant monitoring, preventive and corrective maintenance services backed up by appropriate contractual guarantees depending on customer requirements.

- Preventive maintenance programs
- Spare parts management
- Corrective maintenance
- 24/7 remote plant monitoring
- Plant availability guarantees
- Information management and reporting
OUR
COMPETITIVE
ADVANTAGES
Experts in project execution
Successful implementation of utility-scale solar power projects demands highly effective project management and planning from commencement up to hand-over to the client. METKA EGN is successful because the entire organization is highly focused on project execution.

Engineering expertise
Our experienced in-house engineering resources enable METKA EGN to respond flexibly and responsively to project specific requirements. We are highly experienced not only in solar power plant design, but also in engineering solutions for grid interconnections including state-of-the-art electrical substations.

Complex projects
METKA is an international market leader in large scale power generation projects. Our group has an unmatched capability to effectively handle innovative and technically challenging applications including energy storage integration and hybrid power generation.

Global reach
Together with its affiliated group companies, METKA EGN has experience or presence on five continents. We are equally at home working in developed markets such as the United Kingdom, as we are in emerging economies in Africa and the Middle East. Our reach extends throughout Europe, the Middle East, Africa and the Americas.

Financial capacity
Through the financial strength and stability of its parent companies, METKA EGN has the support and financial backing necessary to undertake the largest utility scale solar projects globally.

Reliable Partner
We are proud to have successfully delivered major solar power projects for some of the world’s leading solar energy investors, including Lightsource, Sonnedix, Hazel Capital, Next Energy Capital, Skysolar and Lukoil, among others. Our global reach makes METKA EGN an ideal partner for leading international investors in the solar power industry.
METKA EGN has extensive experience in utility scale solar, including both ground-mounted systems and large rooftop installations. Our ground-mounted experience extends across all kinds of terrain, including complex sites with high degree of inclination and demanding ground conditions. With our in-house engineering capacity, we provide optimized solar plant designs for each project – taking account of specific site and local ambient conditions.

METKA EGN’s solar power plants utilize well proven equipment from tier-1 suppliers. We have extensive experience in application of both string and centralized inverters, while we offer both fixed installations and single-axis tracker systems depending on project requirements. All installations are carried out under the supervision of METKA EGN’s experienced project engineers.

METKA EGN ensures that your solar project is designed and delivered with all necessary electrical equipment and infrastructure to ensure a reliable integration with the electricity grid. We have the capacity and experience to provide full turn-key electrical substations, with the latest protection and automation systems. Our substation experience extends from medium voltage up to 400kV, to cover all possible grid integration schemes.

Our substation designs ensure successful grid integration by taking full account of national grid code requirements, active/reactive power and grid stability issues. We also ensure that the required telecommunications infrastructure is in place to provide a fast and reliable connection between the PV plant substation and the grid operator.
We apply our industry knowledge and engineering capacity to bring the potential of solar to the world

Energy Storage

We provide large-scale battery based energy storage solutions, both integrated with solar PV plant and stand-alone. Apart from the ability to store and deliver energy on demand, the responsiveness of battery systems makes them ideal to provide network operators with innovative solutions for frequency response which help to stabilize electricity grids.

Energy storage systems are generally supplied in modular designs, which are easily scalable and are able to deliver multi-MW output. In order to successfully apply battery technology in utility scale applications we apply sophisticated control concepts with automated battery management systems.

Hybrid Systems

Hybrid power generation systems combine solar power generation with conventional forms of power generation and energy storage technologies, to enable a reliable supply of high quality electricity, either to the network or to off-grid consumers such as mines. These solutions enable the user to significantly reduce the cost of expensive fuel, such as diesel, while ensuring that the power plant output is fully controllable to match the required demand profile.

Building on the group’s extensive experience in thermal power generation, METKA EGN is well placed to provide hybrid power generation solutions to match project needs.
METKA EGN is strategically focused on international growth and positions itself as a new leader in the solar power sector on a global level.
REFERENCE PROJECTS

Our Reference Projects are testament to our success in delivering world-class solar power plants to leading investors in the PV sector.

METKA EGN has a portfolio of 500MW of successful projects in Europe and the Americas.

ISABELA

📍 LOCATION  PUERTO RICO
⚡ CAPACITY  57 MWp

METKA EGN is the EPC contractor for the 57MW PV project in Puerto Rico, belonging to Oriana Energy LLC, a subsidiary of the Sonnedix Group.

This complex project includes a significant battery storage installation and HV substation scope. METKA EGN will also provide operation and maintenance services for the plant.
**HOLDITCH FFR**

📍 **LOCATION**  UNITED KINGDOM  
⚡ **CAPACITY**  20 MWp

The Holditch 20MW Fast Frequency Response project is the first of its kind in the UK. It includes a hybrid solution combining the following elements:

- 4 Li-ION battery blocks of 1MW each
- 16 VRLA battery blocks of 1MW each
- 2 gas engines of 1250 kVA (1000kW)
- 36 diesel generators of 635 kVA (500kW)

---

**BUNNOYE II**

📍 **LOCATION**  KAZAKHSTAN  
⚡ **CAPACITY**  50 MWp

METKA EGN is the EPC contractor for the Burnoye II 50MWp solar photovoltaic (PV) project in Kazakhstan, developed by Samruk Kazyna United Green Energy Ltd.

This complex grid-connected project includes a fixed tilt mounting structure and 16 central inverters/production substations.

---
SOUTH CREAKE
- LOCATION: UNITED KINGDOM
- CAPACITY: 26.0 MWp

LOCKLEAZE
- LOCATION: UNITED KINGDOM
- CAPACITY: 15.4 MWp

BUFULUBI
- LOCATION: UGANDA
- CAPACITY: 100 MWp

DOMOKOS
- LOCATION: GREECE
- CAPACITY: 10.3 MWp
WEST HILL

- **Location**: United Kingdom
- **Capacity**: 11.0 MWp

POULSHOT LODGE

- **Location**: United Kingdom
- **Capacity**: 14.5 MWp

PLOIESTI

- **Location**: Romania
- **Capacity**: 90 MWp

SINDOS

- **Location**: Greece
- **Capacity**: 300 KWp