



Kabul Azimi Renewable  
Energy Manufacture

KABUL AZIMI

RENEWABLE ENERGY MANUFACTURE

BUILDING A WORLD

OF OPPORTUNITIES

IN SOLAR ENERGY



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# ABOUT

## KABUL AZIMI RENEWABLE ENERGY

Azimi Brother's Group (ABG) is working since 1943 in global market, now the ABG is a parent company which is leading many child companies in overseas, ABG has been working in the field of renewable energy such as solar water heater system in Afghanistan from the past one decade, the solar water heater brand is called Lemar Solar<sup>®</sup> and it is famous in Afghanistan. Recently ABG established another company under the brand name of KARE<sup>®</sup>, the company is a world-class EPC and O&M contractor for utility-scale solar power projects along with their international partners. 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, KARE<sup>®</sup> designs and delivers high quality solar projects for its clients world-wide.

### Total Solutions

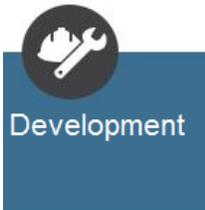
KARE<sup>®</sup> is expert across the full range of solar power applications, ranging from stand-alone solar parks to complex projects with integrated energy storage. The decades of experience of the KARE<sup>®</sup> in the Solar power sector, also makes us an ideal partner for hybrid applications, which 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

KARE<sup>®</sup> is strongly focused on serving major clients in the solar power sector, with a customer portfolio which includes some of the leading renewable energy investors globally. We aim to develop long-term partnerships with our clients, supporting their growth by consistently delivering quality projects around the globe.

# WHAT WE DO

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.



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



KARE® is a leading international contractor providing complete turnkey 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.

1. Full turn-key EPC responsibility
2. Optimized in-house engineering design
3. Procurement strategy based on approved tie suppliers
4. Energy storage integration and hybrid solutions
5. Electrical substations and grid interconnections

# We are experts in O&M for solar



## Operation & Maintenance

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
- 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.

- KARE<sup>®</sup> is successful because the entire organization is highly focused on project execution.

### Engineering expertise

Our experienced in-house engineering resources enable KARE<sup>®</sup> 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

KARE<sup>®</sup> 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 and global partners, KARE® has experience or presence globally. 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 EMEA, APAC, Africa and the America.

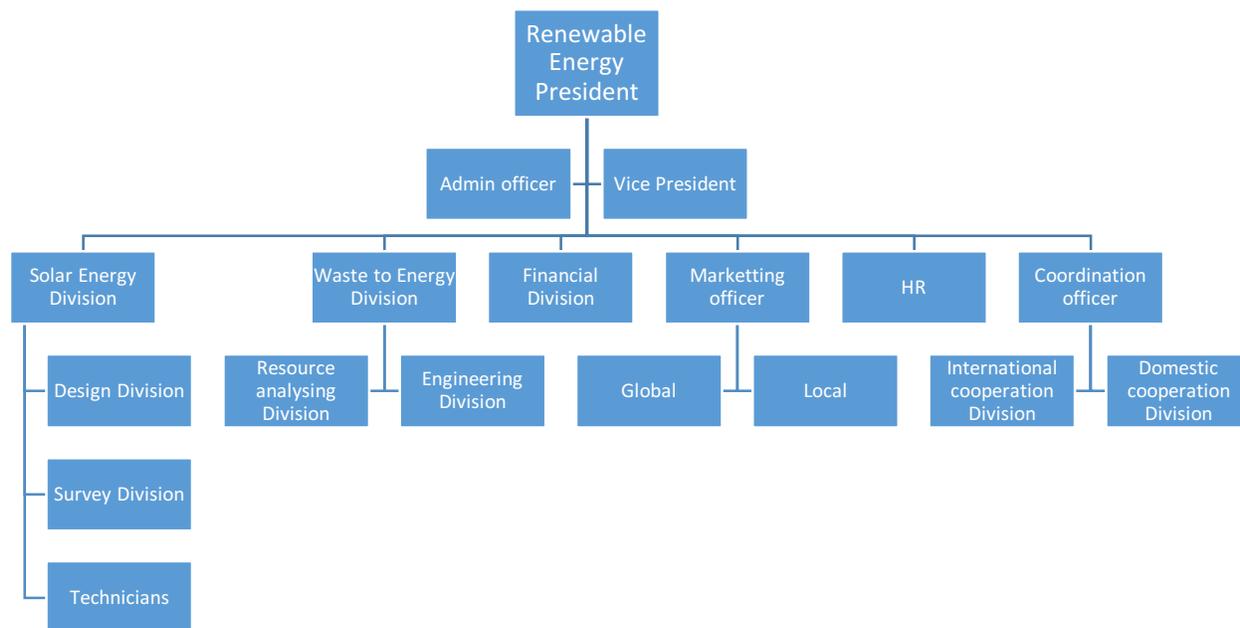
## Financial capacity

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

## Reliable Partner

We are proud to have international partners worldwide, which successfully delivered major solar power projects for some of the world's leading solar energy investors, including Light source, Hazel Capital, Next Energy Capital, Sky solar and Lukoil, among others. Our global reach makes KARE® an ideal partner for leading international investors in the solar power industry.

## KARE Staff's





## TOTAL SOLUTIONS

### Utility Scale Solar Power

KARE<sup>®</sup> with co-operation of Turkish; Indian international partners 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.

KARE'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 KARE's experienced project engineers.

### Electrical Infrastructure

KARE<sup>®</sup> ensures that its projects are 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.

### 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 net-work 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, KARE® is well placed to provide hybrid power generation solutions to match project needs.



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