



دار مسادر  
Dar Massader

## Enabling the Transition. Sustaining the Future.

An Enabler of the **Energy & Power Transformation** in KSA & Beyond.

Dar Massader is a trusted partner and a key enabler to the Kingdom's energy transformation, providing innovative solutions, services and expertise across power generation, transmission, and distribution systems.

**As one of the key enablers of Vision 2030, we are shaping the future of energy with global expertise & localized capabilities.**

[www.darmassader.com](http://www.darmassader.com)



## Energizing Ambition. Empowering Change.

Shaping a resilient energy landscape powered by **innovation and expertise.**

From pioneering renewable energy projects to optimizing critical infrastructure, Dar Massader brings localized expertise and global partnerships to shape the region's power and energy frontier.

### A Key Enabler for the Energy & Power Sector

Expanding the frontiers of renewable energy.



#### On-Shore & Off-Shore Energy Resource Assessment:

Dar Massader delivers precise solar and wind energy resource measurement services across the entire geographical region of the Kingdom, with localized expertise in design, engineering, & AI-driven data analytics to unlock renewable energy potential.



#### Pre-Development Feasibility Studies:

We conduct geotechnical, topographical, hydrological, and environmental impact assessments, facility design & master plan development, and bankable energy yield evaluations for various large-scale renewable energy generation projects.



#### Hybrid Solutions:

We design and implement hybrid microgrid systems and Battery Energy Storage Systems (BESS) to enhance grid efficiency, stability, and reliability.

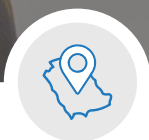


#### Infrastructure Optimization:

Delivering high-voltage asset management, SMART Grid diagnostics, and electrical health indexing to secure the performance of critical infrastructure.

# Innovating Generation, Transmission & Distribution:

As a technological enabler, Dar Massader drives Saudi Arabia's energy goals through projects that make an impact:



## Geographical Surveys:

We have successfully completed the installation phase of the world's largest solar resource measurement campaign, encompassing an area of 850,000 km<sup>2</sup> across the complete geographical region of the Kingdom.



## Unveiling Energy Potential:

We have successfully executed 331 solar and 93 wind measurement campaigns, identifying over ~50 GW of solar and ~24 GW of wind energy potential for the Kingdom. These ongoing projects continue to expand the nation's renewable energy capacity.



## Solar & Wind Pre-Development Assessment:

Facilitated the development of 1.3 GW solar and 5 GW wind energy projects through complex design, precision engineering and analytics-driven consultancy.



## Asset Management:

We provide comprehensive reliability assurance for HV electrical assets across the Kingdom through advanced testing methodologies and online condition monitoring systems. As a key enabler of the power sector, we have deployed +1,500 HV Asset Condition Monitoring Systems across the Kingdom, ensuring their optimized performance and preventing power failures.

**Reliable.  
Efficient.  
Sustainable.**

With a comprehensive portfolio spanning the entire energy value chain, from resource assessment and engineering to advanced testing, commissioning, and asset optimization, our solutions are engineered to address challenges across power generation, transmission, and distribution systems, ensuring reliability, efficiency, and scalability.

At Dar Massader, we combine localized solutions, knowledge transfer, and cutting-edge technologies to deliver sustainable solutions for government bodies, GIGA projects, and private enterprises alike.

## Connect with Us

Dar Massader is leading the Kingdom's energy transition, delivering a range of solutions across energy generation, transmission, and distribution. We offer a turnkey scope, from initial planning and design through execution, operation, and ongoing maintenance.

Collaborate with our industry-leading SMEs on innovative partnerships, ideas, and initiatives shaping an energy-efficient tomorrow.

**Partnering to redefine energy and power for a sustainable future.**