



powergreen

by **INNOVATIONS UNLIMITED** ME

The Future of Current

Our Journey

powergreen is a company of Innovations Unlimited ME, the Renewable Energy System Integrator & EPC Contractor founded in Qatar in 2009, and moving from there into regional markets.

Today, the company has established its leadership with a strong portfolio of pioneering cleantech projects, having built an entrenched regional expertise in the engineering, construction, operation and maintenance of leading-edge green solutions.

powergreen is built on an un-wavering dedication and a strong commitment to shape the renewable energy landscape of the markets in which it operates.

Our Endeavor

Our solutions are organically simple and meticulously designed to exemplary engineering standards. They are conceived to minimize your carbon footprint by generating energy from renewable sources with optimum outputs and the best value for your money.

We offer turnkey renewable energy solutions that are designed to achieve multiple benefits:

- Offset carbon emissions
- Optimize use of available spaces
- Address your particular energy needs using natural resources
- Integrate well with your energy management plan
- Preserve your architectural aesthetics

Our Operations & Maintenance

Monitoring and Reporting

Optimising the performance and energy yield of our installations is achieved through our comprehensive O&M services encompassing preventive and corrective measures, tests, repairs, monitoring and spare parts.

Our assigned task-related project teams ensure timely reporting and flexible on-site service timelines. Infinite support for your yield.

PV Cleaning Techniques

Clean solar panels produce more electricity than dirty panels. This makes cleaning an important point of consideration for our clients.

We devise our cleaning technique based on factors that govern each installation. For instance, the size of a project guides the choice of cleaning, manual or automatic; its location and accessibility influence dry versus wet cleaning techniques. With our tried-and-true robot systems, clients get the best there is out there.

Our Projects

We serve our clients through our vision to be the leading system integrator of renewable energy in the region. Our successful efforts have earned us a solid portfolio of projects that expands across a number of technologies and occupies the lion's share of the market.

Engineering Scope

- Feasibility Analysis
- Solution Planning
- System Design
- Technology Procurement

Implementation Scope

- Site Preparations
- Project Management
- Turnkey Renewable Energy Systems Installation
- Grid Integration

Our Services

We complete the cycle, from design and technology sourcing through installation and commissioning, and provide on-going operations and maintenance services. Our careful simulations ensure accountable and steady electricity production from our energy systems to our clients.

Our integrated end-to-end renewable energy services encompass three comprehensive scopes.

O&M Scope

- Preventive & Corrective Maintenance
- Power Production Monitoring
- Reporting & Optimization
- Spare Parts Management
- Cleaning Services

Kahramaa Substations Lighting

Owner - Qatar General Electricity and Water Corporation

Contractor - Tecton Engineering & Construction

Fitting and Retrofitting 14 Kahramaa substations with solar lighting systems, supporting the National Utility's efforts to deploy increasing sustainable implementations.

Type	Size	Location	Completion
Solar Street Lighting System	1012 Solar light units	Doha, Qatar	2016



KAHRAMAA SUBSTATIONS LIGHTING



Mesaheed Town Kahramaa Reservoir Lighting

Owner - Qatar General Electricity and Water Corporation

Contractor - Al Jaber Engineering W.L.L

As part of its strategy for achieving water security, Kahramaa builds and refurbishes water reservoirs in Qatar to top quality standards. To complement this vision of sustainability, Kahramaa has opted to deploy a solar lighting solution at the refurbished Mesaheed reservoir, representing a first step towards broader implementation.

Type	Size	Location	Completion
Solar Street Lighting System	88 Solar light units	Doha, Qatar	2015



MESAED TOWN KAHRAMAA RESERVOIR LIGHTING



Early Childhood Teachers Training Center @ Qatar University

Owner - Qatar University

MEP Contractor - Al Moayyed Air Conditioning W.L.L

The Training Center for Early Childhood Teachers (TCECT) project at Qatar University was launched in 2007 to enhance the quality of academic programs and become a regional model for early childhood training.

The center's new building will also serve as a research facility and a parents' hub where workshops and educational counseling are conducted.

Under Qatar University's larger initiative of integrating renewable energy systems onto its premises, the TCECT is fitted with Solar Water Heaters to supply the needs of the building with no strain to the energy grid.

Type	Size	Location	Completion
Solar Thermal Water Heating System	40 sqm of flat plate collectors	Doha, Qatar	2015



EARLY CHILDHOOD TEACHERS TRAINING CENTER @ QATAR UNIVERSITY



Utility Tunnel & VIP Access Building

Owner - Lusail City

MEP Contractor - Irenatech

In the newest planned city in Qatar, Lusail Real Estate Development Company designed the Utility Tunnel Control Center and VIP Access Building, as a sustainable structure that contributes to its clean energy supply. The installation of a roof mounted Photovoltaic system onto the building helps moderate the power demand from the Lusail-wide electrical network while fully preserving the aesthetics and architectural design of the development.

Type	Size	Location	Completion
Roof-mounted Photovoltaic System	35 KWp	Doha, Qatar	2015



UTILITY TUNNEL & VIP ACCESS BUILDING



Msheireb Downtown

Owner - Msheireb Properties

Contractor - Multiple

Msheireb Properties aims to bring together traditional and modern concepts using innovative eco-friendly technologies to generate energy for its 5.5\$bn "Doha Land" project located in the heart of Doha.

With sustainability at the core of this development, we implement the photovoltaic and solar thermal systems in multiple phases of this project to support Msheireb in achieving its energy conservation and CO2 emissions targets.

Upon completion of all phases, the development will represent the biggest concentration of LEED certified buildings in the world.

Type	Size	Location	Completion
Roof-mounted Photovoltaic System	1.7MWp	Doha, Qatar	2014-15: 600KW completed 2015: 1.1MW On-going
Solar Thermal Water Heating System	280 sqm of flat plate collectors		2015



MSHEIREB DOWNTOWN

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Kahramaa Awareness Park

Owner - Qatar General Electricity and Water Corporation

Contractor - SinoHydro Group Ltd



Kahramaa Awareness Park is an innovative project designed as a science museum for disseminating information on ways to conserve water and electricity, and serves as an original source of knowledge for young visitors.

The park is a truly unique sustainable structure, combining among others, a photovoltaic system and three wind turbines to generate electricity and a solar thermal solution producing hot water supply.

The park is a GSAS (Gulf Sustainability Assessment System) Award receiver and the national winner for Qatar of the coveted Energy Globe Award 2015, which rewards excellence in environmental preservation.

Type	Size	Location	Completion
Ground-mounted Photovoltaic System	64 KWp	Doha, Qatar	2015
Solar Thermal Water Heating System	41 sqm of flat plate collectors		
Horizontal Wind Turbines	30 KWp System		



KAHRAMAA AWARENESS PARK

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Tadmur Evergreen Commercial Building (Energy City)

Owner - Tadmur Holding

MEP Contractor - TAKYEEF Electromechanical W.L.L

Energy City Qatar stands to be the first energy business centre in the Middle East catering to commercial, technical and human resources needs of the oil, gas and hydrocarbon business which is the backbone of the Qatari economy.

Tadmur Holding, one of Qatar's prominent group of companies sets up its headquarters in energy city and leads the way by announcing sustainable objectives for a green building.

We complement the modern building design with a state of the art clean energy system of roof integrated photovoltaics. This represents the first renewable energy implementation at Energy City Qatar, where the biggest players in the Energy industry will be gathering.

Type	Size	Location	Completion
Roof-mounted Photovoltaic System	55 KWp	Doha, Qatar	2015



TADMUR EVERGREEN COMMERCIAL BUILDING (ENERGY CITY)



Al Sadd Multipurpose Hall



Owner - Qatar Olympic Committee

Contractor - Aktor

Al Sadd Multipurpose Hall, with its contemporary Solar PV Rooftop, is the very first living example of a sustainable sports facility in Qatar; the state that has announced a zero carbon footprint goal for its 2022 FIFA games.

The hall is also the first sports facility to embark on the extraordinary environmental goals set forth by Qatar in the 2030 National Vision for sports.

The hall was inaugurated in time for the 2015 World Cup for Handball, which was hosted in Doha and is considered an early demonstration of a sustainable sports facility that will pave the way for calculated implementations in future stages. It is the first sports arena in the world to have achieved a four-star GSAS certification.

Type	Size	Location	Completion
Roof-mounted Photovoltaic System	250 KWp	Doha, Qatar	2014



AL SADD MULTIPURPOSE HALL



Falcon Tower

Owner - Private

MEP Contractor - SASCO Group

Falcon Tower represents a pioneering project in the region featuring building integrated photovoltaic, which combine aesthetics with efficient power generation.

Through **powergreen**, the 155m-high tower includes Thin Film BIPV windows technology, along with golden-colored crystalline BIPV at the top of the building. Together, these panels achieve the tower's environmental aspirations by generating clean electricity while providing artistic shading that reduces heat on the interior thus conserve energy.

Type	Size	Location	Completion
Building Integrated Photovoltaic System	50 KWp	Doha, Qatar	2014



FALCON TOWER

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RasGas Solar Street Lights

Owner - RasGas

Winner of the first runner up position of the 2010 Qatar Today Green Awards for the design and implementation of solar street lights for RasGas.

RasGas, one of Qatar's largest companies, is an active driver of sustainability initiatives. The project involved the design and installation of a system of solar light poles on the premises of RasGas in the Ras Laffan Industrial City to make the streets safe at night while drawing energy from the sun during the day.

23 solar light poles were installed to help RasGas reduce CO2 emissions as part of their commitment to environmental sustainability.

Type	Size	Location	Completion
Solar Street Lights	23 units	Ras Laffan, Qatar	2009



RASGAS SOLAR STREET LIGHTS



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Our Partners

KIOTO
PHOTOVOLTAICS

KPV
Photovoltaic Power.

ENcome
ENERGY PERFORMANCE

TiSUN®

brilliance in lighting
photonus

Lighting Design Austria
Lichttechnische Planung



Our Products

Thanks to our diligently selected partnerships and our genuine concern for customer value, our technology portfolio combines cutting edge engineering and manufacturing operations with premium quality components.

Our clients solicit our expertise in turnkey product and service offerings in the areas of Solar Energy, Wind Energy and Sustainable Lighting.

Solar Energy

- Photovoltaic Systems
- Solar Thermal Systems
- Solar Cooling
- Solar Lighting
- Building Integrated Photovoltaic (BIPV)

Wind Energy

- Small Vertical and Horizontal Axis turbines from 300 watts to 50 Kilowatts

Sustainable Lighting

- Solar Lighting Solutions
- Energy Efficient Lighting Solutions

Our Partners

Our partners play a key role in our mission; each having an impressive track record in their own area of expertise, superlative project experiences and a tried-and-true technical support mechanism that makes our cooperation an outstanding success every time. See our network of partners in the pocket of this brochure.

Our drive

Advances in sciences and technologies have taken over the world by storm, yet in comparison, energy and utilities still lag in innovation despite the enormous potential for free, clean energy sources.

We strive to shift this model by constantly evolving our partner network to make cleantech solutions available in their various forms.

Small steps matter

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Visit our website to know more about our company.

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