

# Renewable Energy Systems

Magnus Energy Services (MES) serves as a trusted integrator, delivering comprehensive system solutions for Renewable Energy applications. We collaborate with globally recognized manufacturers to offer specialized products tailored for the unique demands of the Oil & Gas, Petrochemical, Offshore, Marine, and Wastewater industries. Our expertise ensures reliable, efficient, and industry-compliant renewable energy integration across critical sectors. Our solutions reduce diesel dependence, enhance grid resilience, and promote sustainable growth aligned with national visions like Qatar National Vision 2030 and UAE's Net Zero 2050.

## Key Offerings

Hybrid & Off-grid Power Solutions  
(Solar, Wind, Battery Storage)

Solar PV System Integration  
(Onshore & Offshore Applications)

Explosion-proof Solar Solutions for  
Hazardous Areas (ATEX/IECEX)

Remote Power Supply Systems for  
Instrumentation & Telemetry

Energy Monitoring & SCADA  
Integration

Customized Solar Skid Packages  
for Oil & Gas Sites

Marine-grade Renewable  
Systems

Renewable-powered Water &  
Wastewater Treatment Systems

Engineering, Procurement &  
Commissioning (EPC) Support

Maintenance & System  
Optimization Services



## Bespoke Solar PV Power Systems

Magnus Energy Services' clean, renewable and green energy solutions are custom tailored to suit the requirements of both onshore and offshore oil and gas installations, Marine, supplying Ex rated power systems which are portable, cost-effective, low maintenance and suitable for harsh and hazardous environments present in industries.

We, as an integrator have the technical expertise to design bespoke solar power systems, customised to meet your exact specifications in terms of power requirements, level of certification and applications. Magnus versatile and rugged range of solar electrical systems for individual or multiple installations, suitable for a wide range of customer projects in demanding gas & dust hazard environments as well as safe areas.

Our dedicated team can custom design and manufacture a portable or permanent certified Zone 1 or 2 solar PV powered system, with battery back-up to provide required autonomy for a multitude of applications in hazardous and safe areas. Current applications for this reliable and economical energy source include lighting, air conditioner, remote marine navigation and aviation warning systems, communications & Wi-Fi, site traffic management, pipeline / valve leak detection and fluid / vapour flow monitoring, security applications and offshore HPU UPS systems.

The Solar Power System is a compact solar power supply unit and is available in different power ratings with output voltages ranging from 12V-240V AC or DC. A SPS comes with a solar panel, to convert solar energy into electricity, a battery pack, to store energy for use during periods of power cut or darkness or shade, and a solar control unit, which provides battery management, monitoring and protection. The control unit can also include power conversion to provide regulated AC or DC output if required. The primary solar Photovoltaic Module is highly resistant to water, sandstorm, hail impact and other severe weather conditions, making it suitable for use in any climate.



## Typical Application for Solar Powered Systems

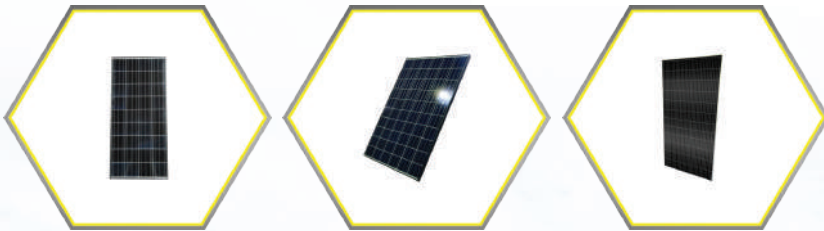
- Air Conditioner
- Street/Plant Lighting
- Aids to Navigations (Nav Aids)
- Alarm Systems
- Gas Detection
- Bird Scaring
- Camera Surveillance
- ESD Controls
- Ship to Shore Communications
- Netcam Systems
- Piping/Pipeline Management
- Cathodic Protection Monitoring
- SCADA Systems
- Well Site Monitoring & Wireless Control
- Chemical Injection Pumps
- Wellhead Control Panels
- Wellhead Platforms
- Drilling Rigs
- Refineries



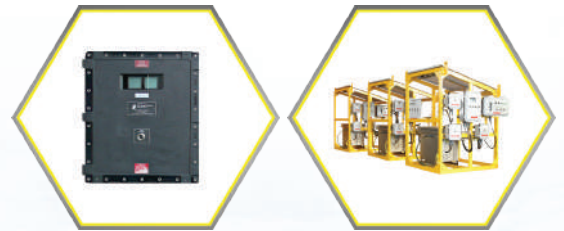
## Renewable Energy Products

We, as an integrator have the technical expertise to design bespoke solar power systems, customised to meet your exact specifications in terms of power requirements, level of certification and applications. A variety of versatile and rugged range of solar electrical systems for individual or multiple installations, suitable for a wide range of customer projects in demanding gas & dust hazard environments as well as safe areas. Your experienced partner in provision of engineering, procurement, and supply chain solutions for Middle East industries. Leveraging from extensive network of manufactures and export partners worldwide to fulfil needs of our customers.

### Solar Photovoltaic Panels



### Distribution Boards



### Battery Systems



### Power Control Units



### Power Inverter Unit

