



Automation - Power Systems

(SCADA/DMS/RTU/SAS)

Enhancing Power Quality

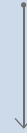
OUTDOOR STORAGE AREA



CONTROL AND PROTECTION
PANEL MANUFACTURING
M V SWITCHGEAR MANUFACTURING



INGRESS PROTECTION
TEST FACILITY



OFFICES AND
TRAINING FACILITY



Who we are?

POWER ECONOMY is one of the market leaders in the Middle-East region for more than a decade in design, manufacture and supply of a wide range of low, medium and high voltage products & solutions that enhance the quality & reliability of power from LV to EHV systems.

Our Reactive Power Compensation, Distribution, Control and Protection, Automation & Metering solutions are developed through constant research and market innovation and cater to the needs of power transmission and distribution networks in the Middle-East and Africa.

Today the company is offering its solutions for both conventional & smart power networks in the

domestic and international T&D business.

At Power Economy, we strongly believe that our success and growth are direct derivatives of 'Customer Satisfaction' through quality products delivered on time and on budget.

Our solutions, developed through constant innovation and research, benefit our customers by cutting down cost, improving efficiency and help them to achieve almost nil downtime.

We always ensure our innovation leads to environmental protection through our energy-efficient products along with long term corporate responsibility efforts.



Power Economy assures quality of all its products and services. Business process of Power Economy is certified for ISO: 9001-2008 by TUV NORD.





Products & solutions

Our motto is 'Customised solutions through Engineering & Design'.

Our products and solutions are designed and manufactured by a team of highly experienced technocrats and developed with components sourced mainly from manufacturers in Europe, Japan and US & also reputed firms from rest of the world. This ensures not just quality and reliable power distribution but sets the benchmark for overall power quality in any region we work with.

- ⚡ Reactive power compensation
- ⚡ LV power distribution
- ⚡ MV power distribution
- ⚡ Control & protection
- ⚡ Substation automation
- ⚡ Advanced metering
- ⚡ Site support

Manufacturing facility


- ▶ 16000 sq. m. State-of-the-art manufacturing facility in the industrial city of Abu Dhabi, UAE
- ▶ ERP system for work flow control and project management

People

- ▶ Core design team with more than 300 man-years of experience in the power sector across all the
- ▶ 3 continents -Asia, Europe and North America.
- ▶ 150+ qualified workforce with more than 75 engineers.

Design

- ▶ PSCAD, ASPEN, ETAP for switching, harmonic and power system studies
- ▶ ELEC DES & AUTOCAD for Drawings & BOM preparation
- ▶ Maxwell 2D for magnetic field plots



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At Power Economy, our solutions are driven by innovation. We realize what it takes to build a solution that is a good investment today and that supports the roadmap towards effective long-term Asset Management & Grid Control.

Working closely with Power Utilities and EPC Contractors in the region, Power Economy offers turnkey automation solutions based on latest technologies and standards for transmission and distribution networks.

Our solutions, adopting latest digital technologies for Substation Control, Protection & Automation provide a means for effective monitoring and utilization of critical and valuable assets of power utilities. This detailed insight helps every Utility Company to focus better on their primary business function of delivering power in a reliable, safe and efficient manner.

Our local presence, combined with an experienced and dedicated team, provide our Client/Customers a one-stop-facility for all their generation, transmission and distribution needs related to automation, controls, metering and power quality enhancement.



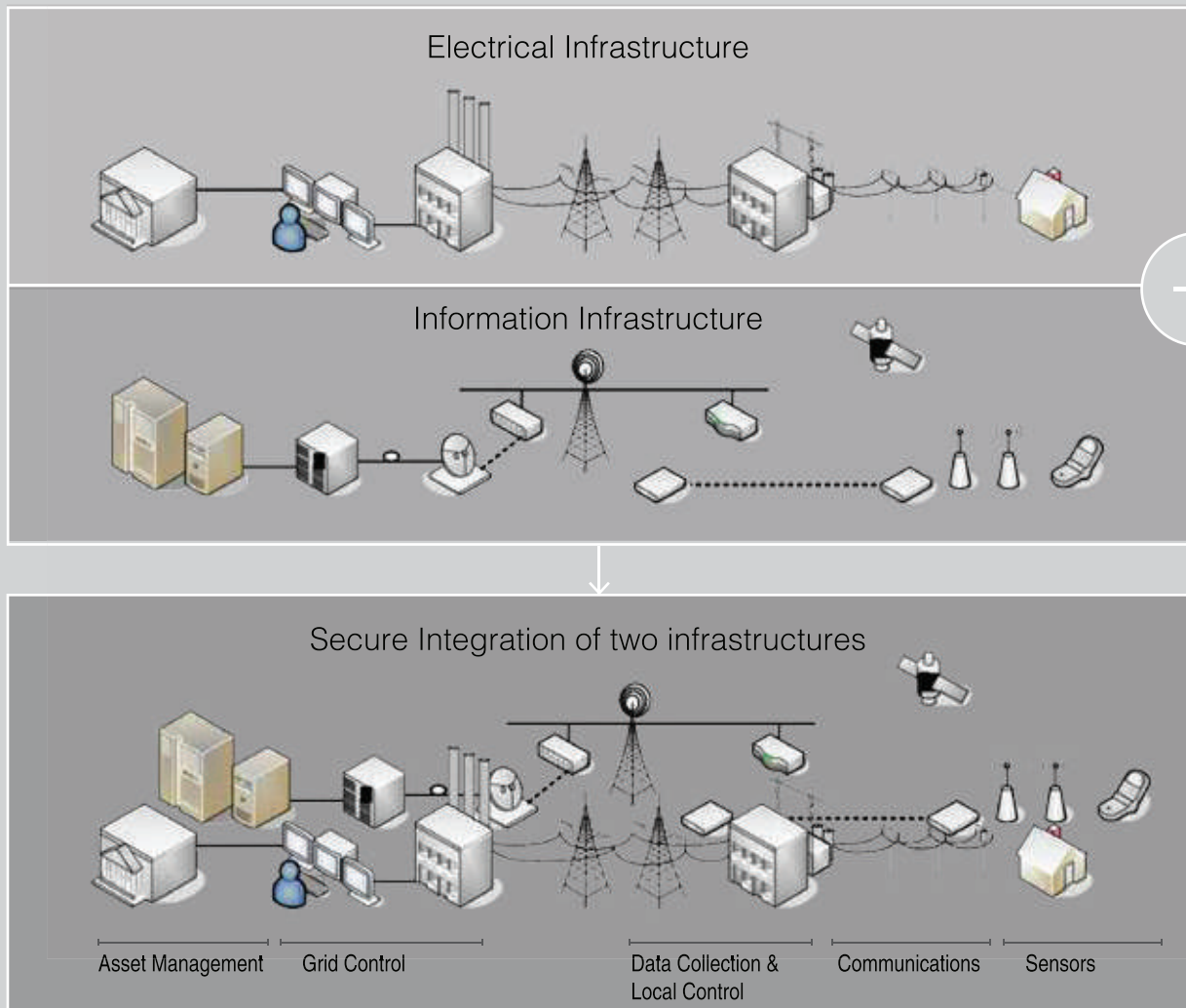
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28 MARCO 2012

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Our Solutions include:

- System Integration for SCADA/RTU (SWG & RMU based applications) & Substation Automation Systems
- SCADA Adaptation Works/Interface Panels (SIP/CCC/DMS) complete with transducers, interposing relays and terminals to meet defined I/O and Technical Specs
- Total solutions for integrating new substations to existing LDC/DMS centers and modification of existing protection schemes for integration to control centers
- Engineering & Operator Workstation HMI's for RTU/SCMS solutions



- Substation bay level control, metering & monitoring systems
- SDH/PDH, MPLS telecommunication networks
- Engineering of SCADA/RTU/SCMS automation projects including CAD facility
- State-of-the-art testing facilities including in-house Ingress Protection (IP), Impulse, Power Frequency & Temperature Rise Test Labs
- In-house manufacturing of cubicles and racks for all automation applications as per IEC and other relevant standards
- Upgrading/Replacement of Control Systems for Standby Generators at Critical Locations – RGCP, AMF, LMS, RGMS & ATS equipment.
- Maintenance & retrofits for legacy substation control systems





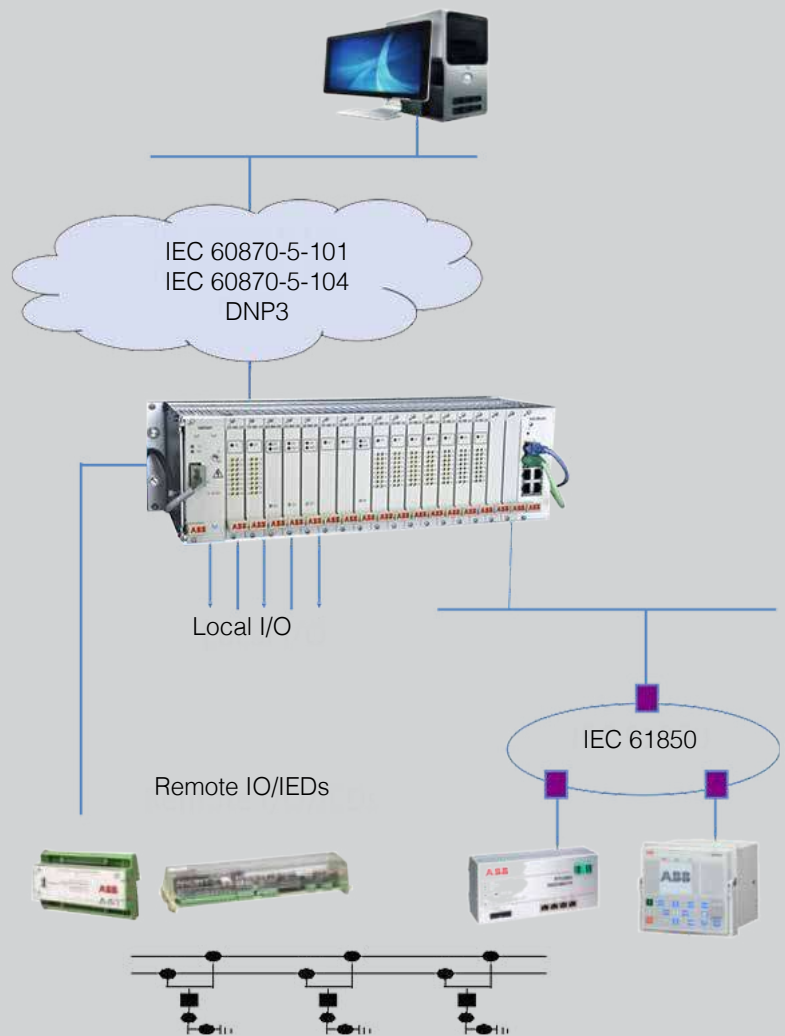
Our engineering expertise:

- Turnkey solutions for RTU projects, including site services
- HMI configuration and SAS engineering
- Control Systems for critical power installations
- Retrofit works on SAS/RTU Systems
- Multifunction IEDs
- Bay controllers
- Software platforms
- IEC61850 inter-substation communication

We specialize in IEC-61850 based automation and protection relay systems and have developed an in-house simulator for testing communication and inter-operability of IED devices & for training purposes.

Features:

- Simulate CT & VT
- Simulate Breakers, Switches & Events
- Multiple Vendor IEDs
- Explore Multifunctional IED features
- IEC based automation scheme
- Advanced 1 Gbit/s Fiber Ethernet Network
- Validate Network Communication
- Perform point-to-point tests
- Commission HMI



Protocol Expertise:

- DNP3
- Modbus
- IEC61850
- IEC60870-5-101, 104
- GOOSE - inter device
- SCADA byte protocols
- SCADA bit protocols

Training

- In-depth training on Automation systems
- State-of-the-art training facility at factory
- Hands-on training laboratory with demo equipment





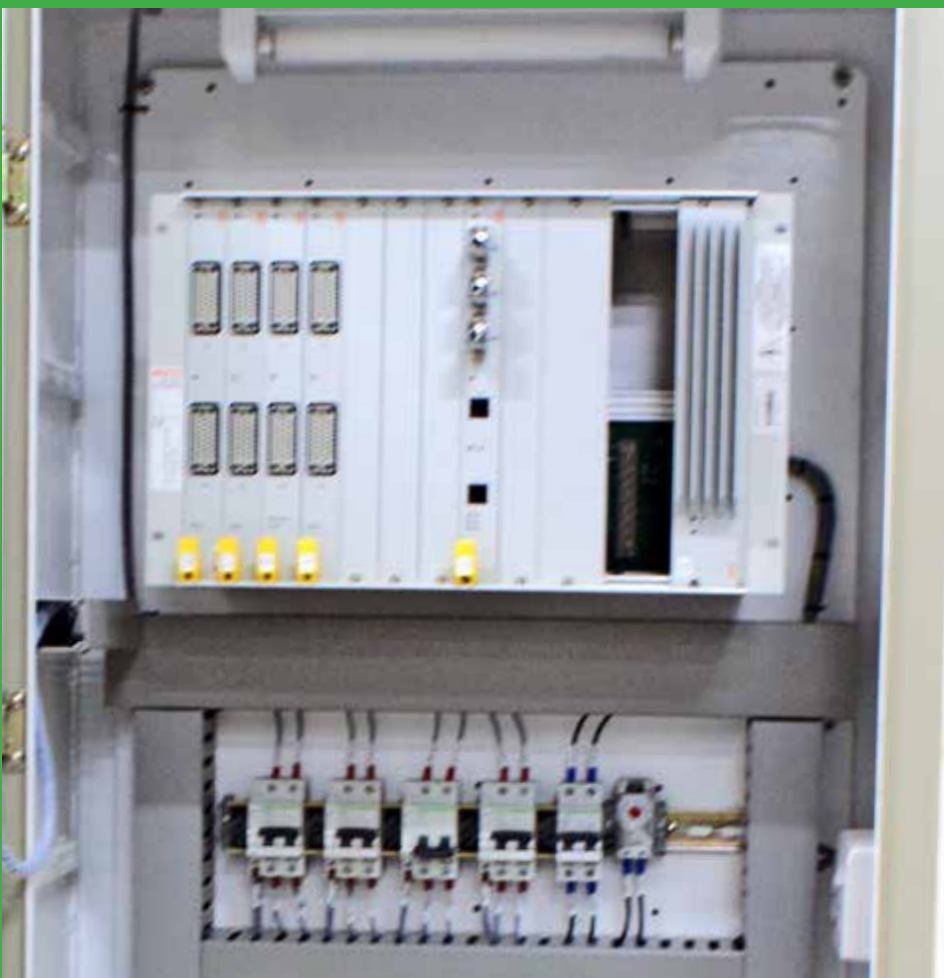
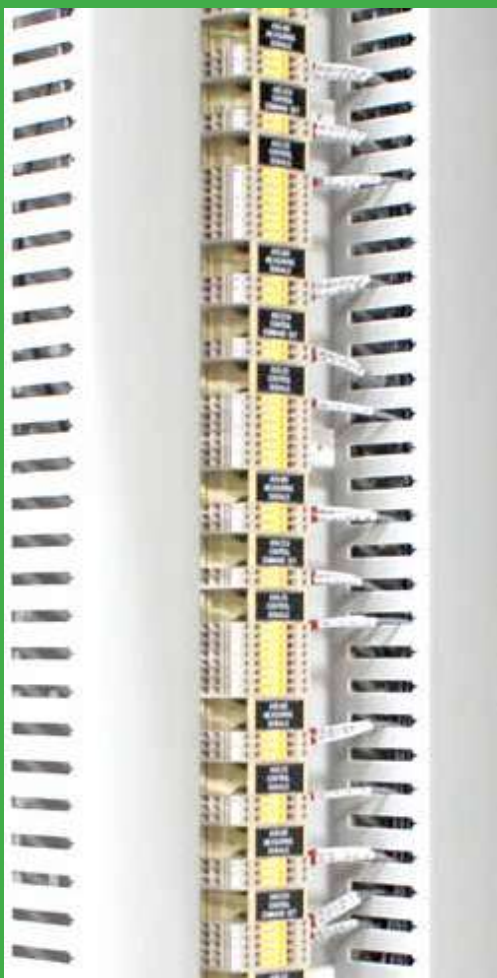
Substation Automation Panels





Automation Panels







SAS/Metering/Training Panels



Telecom/RTU Panels



Customers

 <p>الشركة القومية لنقل الكهرباء ش.م.ع.م OMAN ELECTRICITY TRANSMISSION COMPANY S.A.O.C.</p>	 <p>شركة أبوظبي للعمليات المنوالية البحرية (أدنوك) Abu Dhabi Company for Onshore Oil Operations (ADCO)</p>	 <p>أدنوك ADNOC شركة بترول أبوظبي الوطنية</p>	 <p>شركة أبوظبي للتوزيع Abu Dhabi Distribution Co.</p>	 <p>شركة كهرباء مزون ش.م.ع.م Mazoon Electricity Company S.A.O.C.</p>
 <p>شركة مسقط للتوزيع الكهربائي Muscat Electricity Distribution Co.</p>	 <p>شركة ظفار للطاقة ش.م.ع.م Dholar Power Company S.A.O.C.</p>	 <p>دولة الإمارات العربية المتحدة الهيئة الاتحادية للكهرباء والماء Federal Electricity & Water Authority</p>	 <p>مؤسسة الإمارات للطاقة النووية Emirates Nuclear Energy Corporation</p>	 <p>هيئة كهرباء ومياه دبي Dubai Electricity & Water Authority</p>
 <p>وزارة الكهرباء ME</p>	 <p>شركة العين للتوزيع Al Ain Distribution Company</p>	 <p>تكرير TAKREER شركة أبوظبي لتكرير النفط</p>	 <p>شركة تنمية نفط عمان Petroleum Development Oman</p>	 <p>ADPC شركة أبوظبي للموانئ</p>
 <p>الشركة السعودية للكهرباء Saudi Electricity Company Empowering Energy</p>	 <p>بروج Borouj</p>	 <p>KAHRA MAA كهرماء المؤسسة العامة لقطر الكهرباء والماء Qatar General Electricity & Water Corporation</p>	 <p>هيئة مياه وكهرباء أبوظبي Abu Dhabi Water & Electricity Authority</p>	 <p>TAQA</p>
 <p>Rural Areas Electricity Company soec شركة الكهرباء في المناطق الريفية ش.م.ع.م</p>	 <p>TRANSCO شركة أبوظبي للنقل والتحكم Abu Dhabi Transmission & Despatch Company</p>	 <p>شركة كهرباء مجان ش.م.ع.م Majan Electricity Company (SAOC)</p>	 <p>هيئة كهرباء ومياه الشارقة Sharjah Electricity & Water Authority</p>	 <p>TENAGA NASIONAL</p>

UTILITIES SERVED:

TAQA/ADWEA (ADDC, AADC & TRANSCO), UAE
SEWA, UAE
ETIHAD WE (FEWA), UAE
DEWA, UAE
OETC, Oman
Muscat Electricity and Distribution Co., Oman (MEDC)
Mazoon Electricity Distribution Co., Oman (MZEC)
Majan Electricity and Distribution Co., Oman (MJEC)
RAECO, Oman
DPC, Oman
KharaMaa, QATAR
Saudi Electricity Co, (SEC), KSA
National Electricity Corporation, SUDAN
MEW IRAQ
Nigerian utility
ORPC, Oman
FPCC refinery project, Taiwan

COMMERCIAL SEGMENTS SERVED:

Hotel complexes
Office complexes
Public & Residential complexes
Shopping malls
Hospital / Healthcare

OIL & GAS:

GASCO, Abu Dhabi
ADCO, Abu Dhabi
NPCC, Abu Dhabi
Petroleum Development, Oman
Occidental, Oman
Egyptian petrochemicals co., Egypt

INDUSTRIES SERVED:

Cement production
District cooling
Aluminium production
Steel melt shops
Steel rolling mills
Sugar production
Water pumping stations

RENEWABLE SECTOR:

ENEC, UAE



POWER ECONOMY MIDDLE EAST CO. L.L.C



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