



Enhancing Power Quality





Since our inception in 1998, we have demonstrated our technical excellence, innovation, quality and reliability through our products and solutions across the globe and particularly in the middle east region.

This spirit, in all business units of the group, has helped us spread our wings to nearly 50 regions internationally as of 2012 and increasing our sales to US\$ 195 million and new orders totaling US\$ 300 million.

The rapid urbanization and demographic changes in our markets, call for constant innovation and advanced manufacturing techniques in order to provide quality solutions at an affordable cost.

Power Economy's team with a complete understanding of the current global electrical standards, trends and policies is fully equipped to meet any challenges of Power T&D and is constantly working on innovative technology to make the transition into the future smoother.

This combined with our multi-industry expertise and group strength help us in building effective solutions for the future market needs. Fast response to the market needs and well bonded teamwork have been our key to success.

As a responsible corporate citizen, we continuously support environmental protection through our energy-efficient products and empower our people with strong knowledge and skill sets for their continuous career and self development.

**Mr. S.M.Rao**  
Chairman

**Mr. G.Radha Krishnan**  
Managing Director

## Who We are?

POWER ECONOMY is one of the market leaders in the middle-east region for over 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 415V to 400kV.

Our Reactive Power Compensation, Distribution, Control, Protection, Automation & Metering solutions are developed through constant research and market innovation catering 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 & smarter 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 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.





An aerial night photograph of a city skyline. The upper half of the image shows several prominent skyscrapers, each with a brightly lit top section, standing out against a dark, hazy sky. Below the skyline, the city extends into a vast, dense grid of lights, representing residential or commercial areas. The overall color palette is dominated by warm, golden-yellow and orange tones from the city lights.

“Quality Control, protection,  
automation and distribution”





## Our Infrastructure

### 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 & ETAP for Switching and Harmonic study
- ELEC DES & AUTOCAD for Drawings & BOM preparation
- Maxwell 2D for Magnetic Field Plots

### LABS

The ONLY company in this region to have the following test labs in-house

- Lightning impulse Lab up to 300kV peak
- Temperature rise Lab
- Ingress protection lab



### TEST EQUIPMENTS

Our quality team is well equipped with an array of all the necessary test instruments and conducts various tests right from those on outsourced components to the ones on final fabricated solution. Every test procedure is followed to ensure conformity of the product to the policies and guidelines of the utilities/customers and countries.

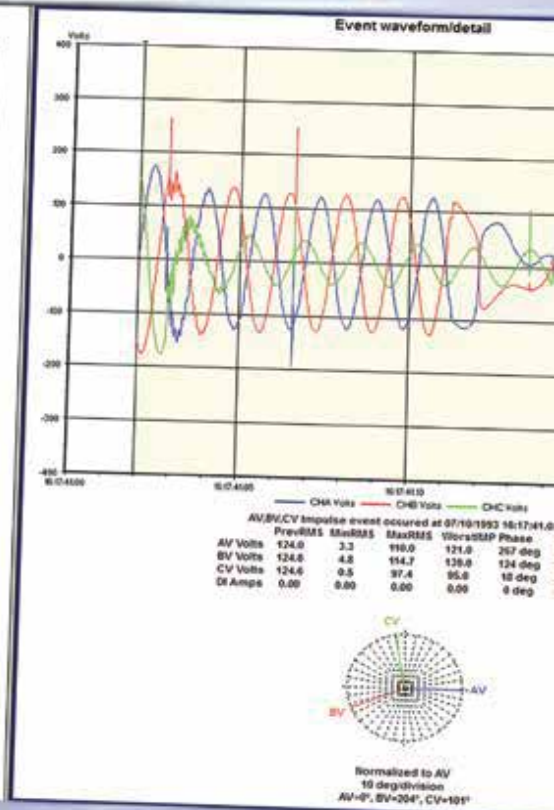
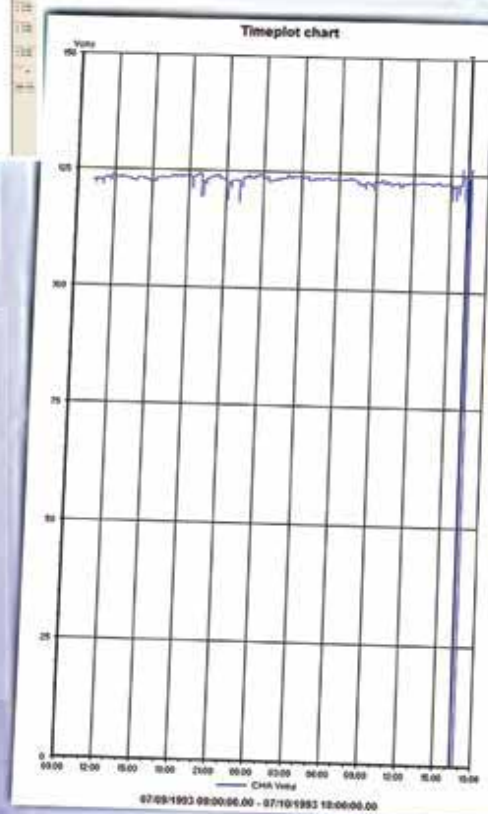
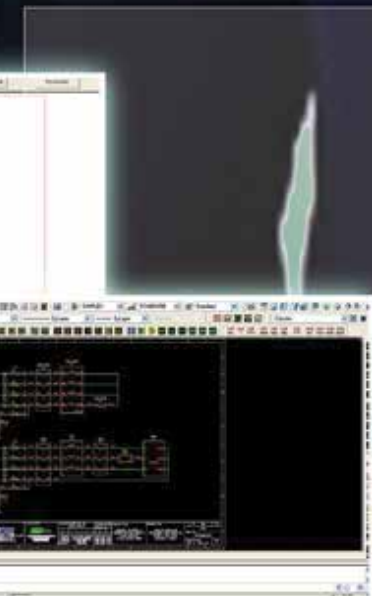
### TRAINING CENTRE

Ultramodern training center to provide hands on training to our clients and employees.

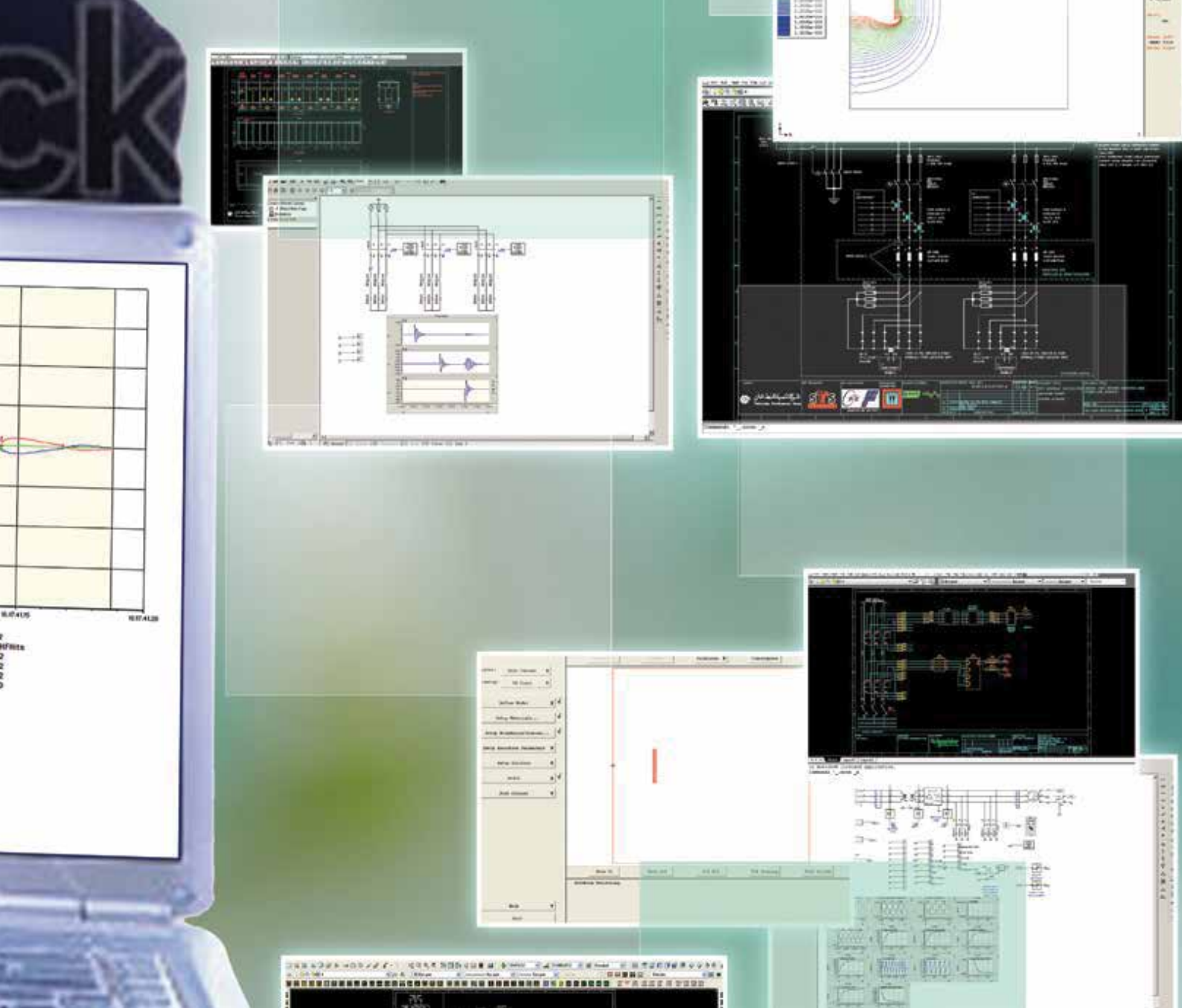
### GROUP STRENGTH

Apart from the above Power Economy is ably supported by the group's other business units located in Oman, India, USA & Malaysia.









## Designs

Our core design team with vast experience in power sectors across all the 3 continents-North America, Europe and Asia and unparalleled technical expertise can transform the customer requirements into cost effective and reliable solutions that can meet any harsh environmental service conditions.

Right from the initial customer's requirement study to final product development including application engineering, component selection,

production drawings and also technical support to the testing and QC team in meeting the FAT procedures, our highly qualified team of electrical system design experts work in tandem with our production line and the customers to ensure seamless customization of products

Our in-house design team comprising dedicated electrical system design experts, application engineers and draughts men use industry standard practices and a suite of computer

aided tools that include PSCAD, ETAP, ELECDES, AUTOCAD and MAXWELL 2D to quickly translate client requirements into physical prototypes and production items.

Our superior design capabilities and advanced manufacturing techniques help us in providing cost effective and custom made solutions that give better ROI through easy and minimum maintenance.



Reactive power compensation



LV Power distribution



MV Power distribution



Control &

## Products & Solutions

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

The core design team at Power Economy has more than 300 man years of combined experience in power sectors across all the 3 continents-North America, Europe and Asia. Our superior design capabilities and advanced manufacturing techniques help us design products and solutions that meet your specific needs and any harsh environmental service conditions.

This 'superior' design capability help us in providing cost effective and custom made solutions that gives you better ROI through easy and minimum maintenance.

Our products and solutions are designed and manufactured by a team of highly experienced technocrats at power Economy and developed with components sourced mainly from manufacturers in Europe 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.

This has helped Power economy in not only reaching out to new customers but also in retaining a client base that includes electricity utilities, govt./public departments, industries, high-rise buildings, oil & gas sectors, and infrastructure projects across the globe.





Protection



Substation Automation



Advanced Metering



Site Support

## Advantages

- Our USP is 'Customised solutions through Engineering & Design'.
- One stop shop for all your Reactive power compensation, Control, Protection, Automation, Metering & Distribution needs.
- 'Superior' design capabilities, global quality standards, Custom made cost effective solutions and products.
- Experience across various standards – IEC, IEEE, BS, etc.,
- State of the art manufacturing facilities strategically located with excellent connectivity to Europe, Asia Pacific, Africa and North America.
- Constant R&D and advanced in-house testing facilities.

# Reactive Power Compensation

- Solution for primary and secondary distribution systems of 0.4 to 36kV voltage level
- Indoor or outdoor type installations with metal enclosed and open rack designs
- Current inrush limiting and tuning type designs with air or iron core reactors
- Fixed or switched type of operations with automatic control
- Type tested solutions as per IEC 60871, IEC 62271-200 & IEC 61921
- Mechanical interlocks for safe accessibility
- Engineered as per specific needs

## Solutions:

- Metal enclosed with tuning & damping reactors
- Open rack mounted
- Pole or Pad mounted
- Air & iron core reactors

## Salient features:

- Outdoor or Indoor type enclosures with steel base frame
- Outer skeleton of welded angle frame
- Cladding by sheet steel doors and covers painted with epoxy or polyester powder paint
- Bubble gaskets used for providing required IP rating in outdoor type
- Canopy provided by additional steel sheets on top providing natural air column for heat protection
- All cable termination at the bottom with aluminium gland plates

- Open rack and pole mounted solutions with high creepage distances
- Internally or externally fused capacitor units
- Type tested switching devices validated for back-to-back switching capability
- Naturally cooled enclosures with high IP ratings
- Mechanical interlocks for safe operation
- Option of stages to be segregated with through type bushings
- Option of outdoor type detuning reactors to be installed in separate GRP enclosure
- Indoor control and Protection panel engineered for specific protection and control needs





### Type Testing

The capacitor bank solutions are type tested, as relevant for following tests as per IEC 60871 and IEC 62271- 200:

- Short time withstand current test on main circuit for 31.5kA/3s
- Short time withstand current on earth circuit for 31.5kA/3s
- Impulse voltage withstand test
- Power frequency voltage withstand test
- Temperature rise test
- Ingress protection test

Low voltage capacitor banks are type tested for following tests as per IEC 61921

- Short time withstand current test on busbars for 50kA/1s
- Power frequency voltage withstand test
- Temperature rise test

- Strength of materials and parts
- Confirmation on EMC

### Engineering

Team of expert engineers does application engineering of various protection and measuring devices. Drawing activities are performed using AutoCAD and advanced software like ELECDES & PANELDES

### Inspection & testing

Dedicated inspection team carries out inspection of sub-components and finished panels. Modern test instruments like OMICRON CMC356 and FREJA300 are used for testing of protection relays.

Technical Details	
Rated voltage	0.4kV to 36kV
Rated frequency	50/60Hz
Power frequency withstand voltage	Up to 95kVrms*
Lightning impulse voltage	Up to 170kV peak*
Short time current withstand capacity	Up to 31.5kA/3s (for MV) & 50kA/1s (for LV)
Degree of protection for enclosure	Up to IP55
Design ambient temperature	Up to 55°C

\* Higher BIL designs are possible on request



# Low Voltage Power distribution

- Main Distribution Boards (MDB's)
- Sub Distribution Boards (SMDB's)
- Distribution Boards (DB's)
- Capacitor Bank (LV. CAP)
- Motor Control Centre (MCC)
- Automatic Load sharing and synchronizing Panel
- Modular Design of Enclosure System.
- Withdrawable, Fixed and Plug-in compartments structure
- Type Tested to IEC 60439-1 with latest Air Circuit Breakers, Moulded Case Circuit Breakers, Fuse Switches, and Control components

## Air Circuit Breakers:

Air Circuit Breakers are available up to a nominal voltage of 690V with 10 continuous ratings from 800A to 6,300A and interrupting withstand ratings of up to 100kA for 1second. Fixed and Withdrawable units are available in 3 or 4 pole designs.

## Moulded Case Circuit Breakers:

The MCCB range includes standard thermal and magnetic as well as electronic trip units for ultimate system flexibility in different frame sizes from 16A to 2,500A, interrupting capacities up to 100kA and voltages up to 690V.

## Fuse Switches:

A range of Fuse Switches and Disconnect devices with ratings up to 2,000A and 690V provide unparalleled solutions for isolating and switching resistive or inductive loads.

## Protection and Control:

Controls are conveniently located at the front of the unit where they can be easily accessed. A full range of programmable and electronic trip units are available to offer you a choice of protection, information and communication capabilities to meet your specific requirements.

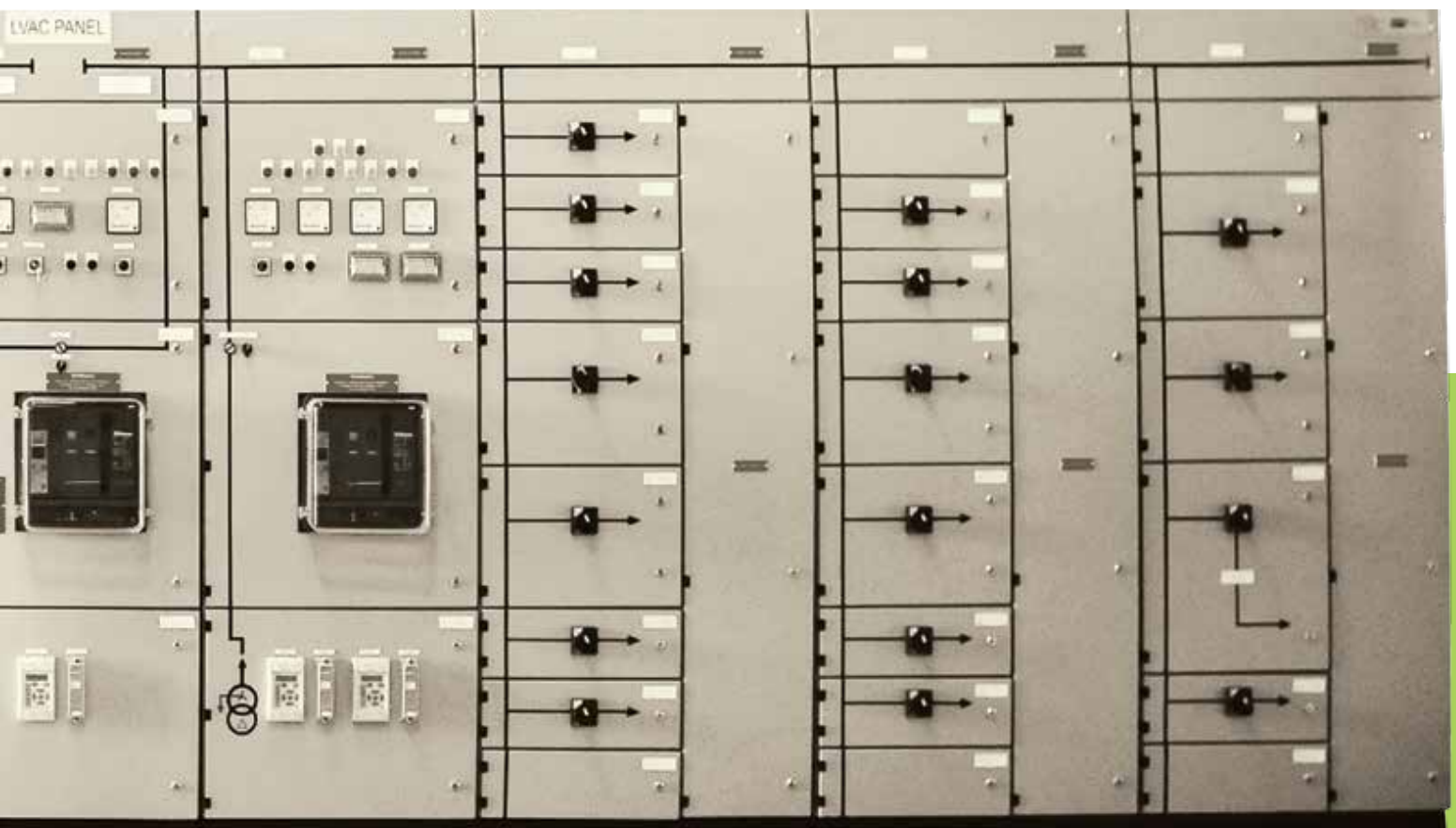




### Miniature Circuit Breakers:

With a full range of miniature circuit breakers and accessories provide final circuit protection for all small power and lighting requirements. With trip characteristic types B, C and D and single, double, triple and four pole configurations, a wide range of protection for any specific application can be met. A range of earth leakage protection is also provided within this modular range.

Technical Details	
Enclosure Modular assembly system	
Degree of Protection	IP20 to IP54
Internal Division	Form 1 to 4
Enclosure Colour	Grey RAL 7032 / 7035
Bus bar system Rated Current	225A to 7800A
Rated Short - Time Withstand Current	5.4kA to 120kA
Rated Operational Voltage	690V



# Medium Voltage Power distribution

- Solution for primary and secondary distribution up to 24kV
- Indoor type air insulated switchgear having sheet metal enclosure with compartmental design.
- Main switching devices are draw-out type Vacuum or SF6 Circuit Breakers as per client requirement
- Designed as per IEC 62271-200 and service continuity & partition category LSC2B/PM as per IEC.
- Internal Arc design and protection classification – ALFR as per IEC
- Compatibility with latest measuring & protection equipment including advance numerical relays.
- Engineered as per specific application, requirement of market segments and clients.
- Draw-out & Fixed (RMU) type alternatives
- The switchgear is extensible type

## Operation & maintenance interlocks provided for:

- Circuit breaker door with test / service position of switching device
- Earth switch operation with test / service position of switching device
- Secondary plug with test / service position of switching device
- Emergency trip facility
- Special interlocks as per application & client requirement

## Enclosures:

Switchgear enclosures are self supporting type and are made of 2mm sheet steel. Load bearing members are of 2.5/3mm sheets. Fabrication of sheet components is done using CNC & NC machines. Fabricated components are powder coated or zinc plated for surface protection. The freestanding functional units are extensible type.



**Components:**

Power components like circuit breakers, current transformers, busbars are installed in separate compartment providing service continuity class LSC2B as per IEC 62271-200. Metallic partitions are provided to segregate these compartments. Busbar, Circuit breaker and Cable termination compartment are designed for internal arc protection.

**Protection & Control:**

LV control and protection apparatus is mounted in separate compartment installed on front side of the switchgear panel. The Switchgears offered are compatible with modern relays and monitoring equipment

Technical Details	
Rated Voltage (kV)	up to 24kV
Rated frequency (Hz)	50Hz
Rated current (Amps)	630A, 1250A, 1600A, 2000A, 2500A, 3150A
Rated short time withstand current – up to (kA)	31.5kA for 3sec
Rated peak withstand current (kA peak)	up to 80kA
Rated short circuit breaking current (kA)	up to 31.5kA
Rated internal arc current (kA)	25kA & 31.5kA
Power frequency withstand voltage (kV)	28kV (for 1 minute) / 38kV (for 1 minute)
Lightning Impulse voltage (kV peak)	75kV / 95kV
Degree of protection for enclosure	IP4X (Indoor)
Maximum design ambient temperature (°C)	50° C

Rated current ratings are at an ambient of 40° C





# Control and Protection Panels

Power economy's state of the art control & protection panels are engineered to meet the ever-changing needs of the power industry. We offer reliable, efficient and intelligence solutions for control and protection needed for Utility sector covering Generation, Transmission and Distribution network, Heavy and medium power industries, oil and Gas sector, primary and secondary distribution systems etc.

We design, engineer, manufacture, conduct factory routine tests on C&R our panels, conduct Site test and commissioning services, undertake special engineering services to meet clients/Engineers needs.

## Product Range

- Protection control and relay panels, for MV/HV/EHV system up to 400kV
- Process control Instrumentation panels for Process Industries, pumping Stations and Oil and Gas fields
- Under Frequency load shedding panel
- Mosaic panels, control desks with large screen projection system
- Local control cubicles for GIS switchgears
- SCADA marshalling Panels and local interface Panels for RTU
- RTCC (remote tap change control cubicle)
- Pilot wire marshalling and Isolation transformer marshalling cubicles
- Sequence control and annunciator panels
- Generator control, monitoring and protection panels and control desks with single slope or double slope type
- Specific tailor made and non-standard panels for retrofitting and matching for existing S/S
- Demo unit panels with various protection IED and bus system, to train utility and contractors application and T&C engineers.

## Services

- Engineering services covering C.T. sizing calculations for protection relays, preparation of engineering drawings like General arrangement drawings, Schematic drawings, Cable/terminal schedules, and substation engineering services
- Protection setting calculations both unit and graded protection calculations
- S/S fault level calculations using internationally recognised software in accordance with IEC regulations
- Erection, testing and commissioning services
- Retrofitting engineering services including supplies

## Construction/Packaging

- Combined Control and Relay Panels with fixed 19" relay mounting frame with front viewing door for relay portion
- Protection Relay Panels with fixed/ swing type relay mounting frame with front and rear doors.
- Pullout cum swing type panels for Synchronizing equipment
- Cubicles manufactured from Electro-Galvanized Phosphated and Chromated sheet steel, and painted with powder coating to required color shade
- Panels can be supplied with IP52 to IP55 ingress protection class
- Panels for Indoor and outdoor applications



- Dead front end panels/ Single slop/Double slope control panels/ Simplex and duplex type panel/ Tailor made panels for retrofit work

#### Features

- Panels built with protective relays and systems as per approved component for 400kV/220kV/132kV/33kV systems
- Use of approved control and auxiliary component to meet the highest standards and internal wiring as per international standards using color coded wires, with ferrule systems as per utility requirement
- Approved terminals for CT/VT circuits, CT circuit shorting facility, isolation, test sockets for external testing, disconnect type control terminals for SCADA circuits
- Mimic layout diagram with computerized mimic symbols with PVC strips
- Systematic labels for circuits bays, front and rear mounted equipment
- 100% testing including IR/HV/IR, functional tests on relays and circuits

#### Client Approvals:

- Approved C&R products supplier to UAE utility sector for ADWEA (TRANSCO, ADDC, AADC), FEWA, SEWA and executed several 400 kV/220kV/132kV/33kV projects.
- Approved C&R product supplier in Oman for OETC, MEDC, Mazoon, RAICO, PDO and DPC
- Approved panel integrator for MNC companies like Siemens, ALSTOM Grid, ABB, Schneider Electric and other leading OEMs.
- Approved suppliers of C&R panels up to 400kV system
- Preferred C&R product suppliers to Major EPC'S like Hyundai, Samsung, LNT, Toshiba, Galfar (Oman), BEC (Oman), etc.

#### Technical Details

Technical Details	
Degree of protection for enclosure	IP42 to IP52
Design ambient temperature	35°C to 55°C
Overhead lines and cable feeder protection schemes	
Busbar protection schemes	
Under frequency and loading shedding schemes	
Generator protection schemes	



# Power System Automation (SCADA / RTU / SAS)

At Power Economy, our solutions are driven by innovation. We realize what it takes to build a solution, is a good investment today 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.

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.

## Our Solutions include:

- System Integration for SCADA/RTU & 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 telecommunication networks
- Engineering of SCADA/RTU/SCMS automation projects including CAD facility
- State-of-the-art testing facilities
- In-house manufacturing of cubicles and racks for all automation applications as per IEC and other relevant standards





### Our engineering expertise

- Multifunction IEDs
- Bay controllers
- Software platforms
- IEC61850 inter-substation communication

We specialize in IEC-61850 based automation and protection relay systems and have developed a 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:

- IEC 61850
- IEC 60870-5-101,103,104
- Modbus
- DNP3
- GOOSE - inter device
- SCADA byte protocols
- SCADA bit protocols



# SMART METERING

## Substation Meters (Power Quality / Tariff) & Consumer Meters

In the age of technological advancement, most utilities & de-regulated power providers willing to reap the benefit out of Smart Grid and Intelligent Substation applications. Hence meters must offer advanced monitoring / measurement features for the utilities across various interface points vis-a-vis Generation, Transmission, Distribution levels till Consumer end to meet the most critical power monitoring / Measurement requirements. Objective of such meters does not end merely with the power monitoring / Measurement capability, it rely equally on memory storage / communication interface/ availability of raw data for further activities. Meters complying to all requirement must be reliable and accurate. Since reliability and accuracy of the metering records accumulated across the aforesaid interfacing points reduce the possibility of significant monetary risk for all those involved.

Identifying a vendor who can supply a revenue / power quality / Consumer meter (AMR/AMI) is not an uphill task.

But real challenge for the client rely on integrating such meters to monitor / control from remote

location as well as to process retrieved raw data for extended activities like analyzing, billing etc., and comes the most important factor, extensive service support

So whom to approach for such complete Metering package solutions ?

There comes the role of a system integrator, PEME who enjoy the reputation with leading utility clients in the market .

POWER ECONOMY is one stop destination for your metering needs, with reputation & proven track record across a vast client base.

- Power economy offers accurate and reliable metering systems that would help avert any losses or disputes (technical / non-technical)
- Power economy provides 24x7 extensive service support with dedicated experts, a much anticipated need for every customer.
- Power economy offers customized & turnkey solutions to the needs of customer requirement.

## Products

### Power Meter with Advanced Power Quality

#### Salient features:

- 10MHz Transient recorder
- Auto-calibrating Metrology
- 1 Gig of data storage
- Color touch screen display
- Highly expandable I/O
- V-Switch™ Key Upgradeable

#### Standards:

- ANSI C12.20 Class 0.2 and IEC 62053 - 22 (Accuracy)
- ANSI C62.41 (Burst)
- ANSI / IEEE C37.90.1 – Surge Withstand
- IEC 61000-4-2-ESD
- IEC 61000-4-3-Radiated Immunity
- IEC 61000-4-4-Fast Transient
- IEC 61000-4-5-Surge Immunity
- IEC 61000-4-15-Flicker Meter
- IEC 61000-4-7-Harmonics
- IEC 61000-4-30-Class A

#### Communication Interfaces / Protocols

- ANSI Optical port
- RJ45 Ethernet port 10/100 BaseT
- Modbus TCP/IP, ASCII/RTU, DNP 3.0
- USB 1.1 / 2.0 virtual COM port



## Tariff / Revenue Meters

### Salient Features :

- 0.06% Watt/Hr Revenue Meter
- 4 Quadrant Measurement
- Transformer / Line loss / CT & VT compensation
- Auto calibration metrology
- External I/Os
- Harmonic Distortion Analysis

### Communication Interfaces / Protocols :

- Optical port
- RS485 Serial port
- 10/100 BaseT Ethernet
- Modbus RTU/ASCII
- DNP 3.0

## Power / Energy Meters

### Salient Features

- Small Design & Easy Installation
- Meets ANSI C12.20 and IEC 62053-22
- Standard RS485 (Modbus and DNP 3.0)
- IrDA port for PC reading and programming
- Expandable I/Os
- Embedded Web Server

## Consumer Meters

### Benefits :

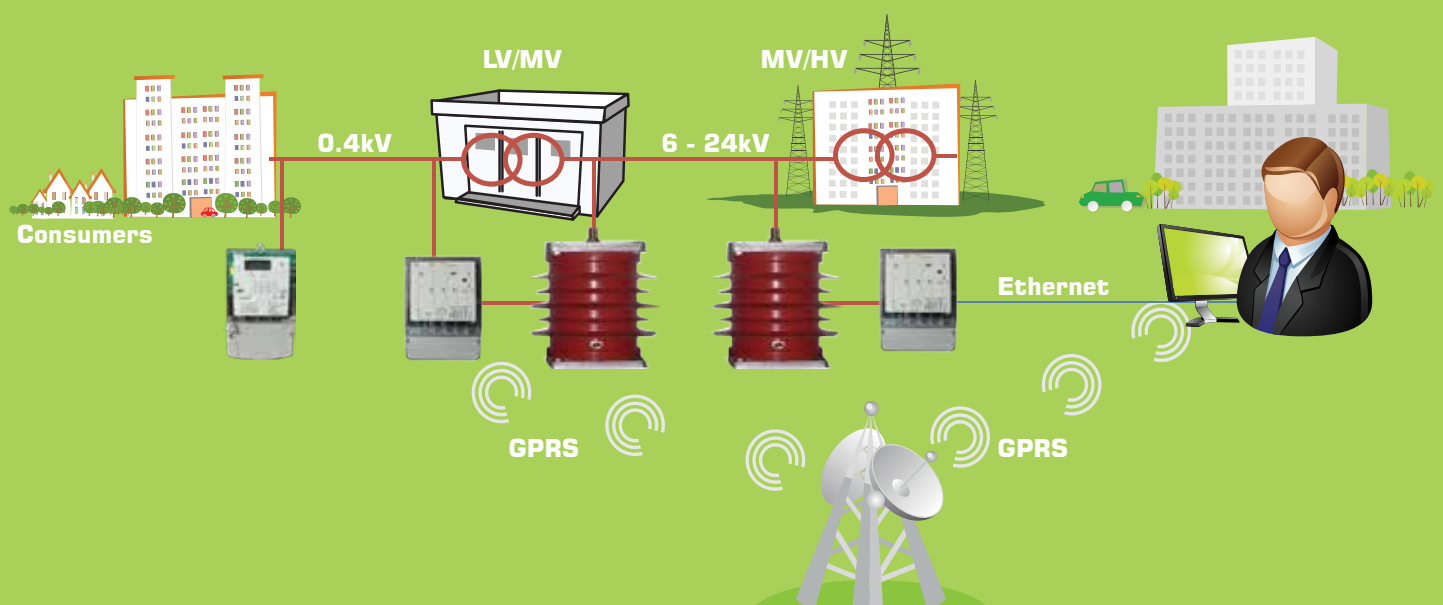
- Non-technical loss elimination
- Minimization of operational cost
- Improvement in power quality
- Reduction in power outage
- Knowledge of energy consumption
- Accuracy in electricity billing for consumers
- Un-Interrupted supply

### Salient Features

- Real time reading, remote parameterization, configuration / firmware up gradation
- Full two way communication
- OFDM / S - FSK modulation for MV PLC
- OFDM / S - FSK modulation for LV PLC
- Data Storage in Non-Volatile memory
- Protection against non-technical losses
- Load control [ command / schedule ]

### Communication Interfaces

- LV / MV PLC
- GSM / GPRS / 3G
- CDMA 2000
- Ethernet
- M-Bus







## Site Support

Power Economy offers a broad range of field support services. As a customer you may have diverse needs on site service needs based on the type and size of your electrical installation. These are well addressed by Power Economy 's SITE SUPPORT team

We have a team of committed and competent engineers who could offer quality service and value through proper analysis and requirement within your framework.

The host of services ,offered are well tailored to customer needs and their equipment lifecycle phase.

- 24/7 Support
- Corrective & preventive Maintenance outsourcing
- Site Appraisal
- Spares Management
- Training
- Telephonic Support
- Site inspections



- Power quality and verification services with harmonic analysis and recommendation for improvement.
- Upgradation, revamping, retrofitting and modification of the existing system.
- Extensions and adaptations to the existing system
- Replacements
- Service Agreements to ensure uninterrupted operations
- Trainings programs customized to your needs
- Reduce operation costs by outsourcing corrective and preventive maintenance to us
- System improvement and equipment performance study
- Extension, Upgrades and Retrofits
- Site installation and Testing & Commissioning
- Emergency on-site repairs





Some of the recent type test certificates received



ISO:9001-2000 certified by TUV





## Quality

At Power Economy ,Quality is a way of life.

We maintain high standard of workmanship through dedication and commitment by following global industry standards to achieve uniformity and excellence in order to satisfy specific user requirements, thereby achieving quality products on time and budget.

Quality is assured through a systems based approach to design, sourcing, construction and testing of products manufactured by Power Economy, at all stages and throughout all processes.

Prior to and during the design process, we maintain close communication with our customers, listening to their requirements and proposing solutions to their needs. Once the final requirements are confirmed, our Design team will draft a preliminary plan of the product, based on the site requirements

and coupled with best practices and the current global Electrical Standards.

Our quality team ensures conformity of the product to the policies and guidelines of the utilities/customers and countries and confirms observance of rigorous safety rules right from the design to realization of the installation.

Our quality team is well equipped with an array of all the necessary test instruments and conducts various tests right from those on sourced out components. Every test procedures is followed to ensure conformity of the final product to the policies and guidelines of the utilities/ customers and countries. Our quality team has a thorough knowledge of various standards followed by different countries and utilities.

To enhance our testing capabilities for high voltage and high current

equipment Power Economy has established in-house facility for lightning impulse test up to 600kV peak. Temperature rise test and Ingress protection test labs established within the factory premises ensure delivered products actually undergo the service environment before they are delivered.

Power Economy is the ONLY Company in this region to have all these facilities in-house.

All business activities at Power Economy including manufacturing follows procedures certified for quality system ISO:9001-2000 and have certification of TUV.

In addition to this high quality drive within the company, for certain product validation processes Power Economy have conducted more than 40 type test at internationally recognized laboratories.

## Gallery



12MVAR, 22kV Detuned Capacitor Bank, Al Falah community project for ADWEA, UAE





20MVAR, 33kV Detuned Capacitor Bank FAT for PDO Oman



22kV Medium Voltage Switchgear, Al Falah community project for ADWEA, UAE





6MVAR, 11kV Detuned Capacitor Bank for ADWEA, UAE



12kV 5MVAR Outdoor Capacitor banks with Iron core reactors for TNB, Malaysia



12MVAR, 22kV Capacitor Bank Control & Protection Panel SAT testing for ADWEA, UAE



5MVAR 11.5kV Capacitor Bank for DPC, OMAN





1200KVAR, 11kV Pole Mounted Capacitor Bank at Yiti for MEDC,Oman





22kV NGR & NGBS at New Airport for ADWEA, UAE



11kV Medium Voltage Switchgear at Deerfield town Square for ADWEA, UAE



Mobile Package Substation for FEWA



33/11kV Package Substation at Ariyam Island for ADWEA, UAE



33kV Combined Control & Relay Panels at Aziaba North-3 Primary Station for MEDC, Oman



400kV Protection Panels at Ajman Grid Station for ADWEA, UAE.





NGR 11kV Adnec Site Adwea, UAE

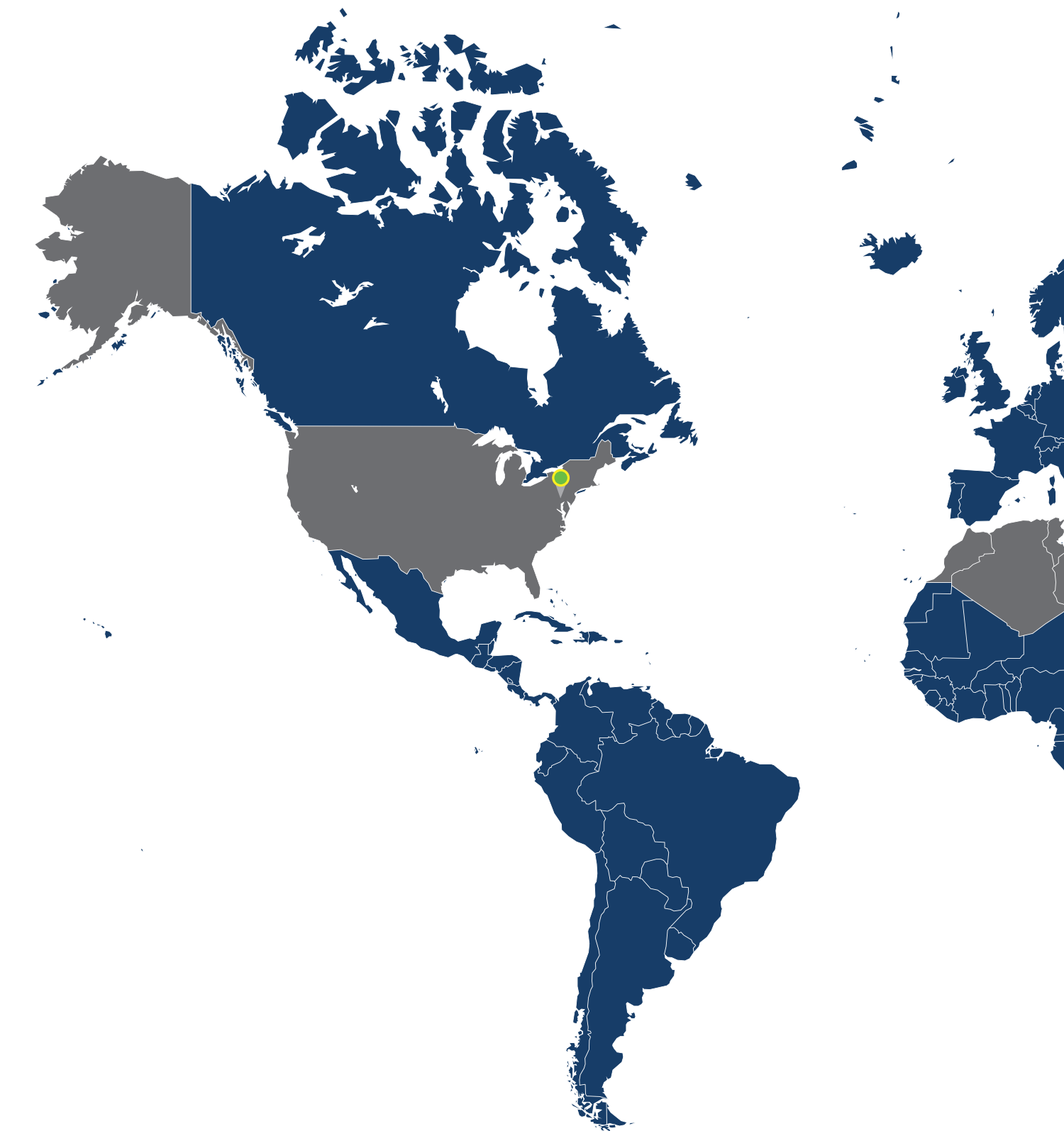
12MVAR, 11kV Detuned Capacitor Bank at ADNEC Site for ADWEA, UAE



132/33/11kV Substation at Massaffi for Federal Electricity & Water Authority (FEWA), UAE

# Customers

<p>الشركة القحطانية لنقل الكهرباء ش.م.ع.م OHAN ELECTRICITY TRANSMISSION COMPANY S.A.O.C.</p>	<p>شركة أبوظبي للعمليات النفطية 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 مسزون ش.م.ع.م Mazoon Electricity Company S.A.O.C.</p>
<p>شركة مسقط لتوزيع الكهرباء Muscat Electricity Distribution Co.</p>	<p>شركة طاقة الظاهرة ش.م.ع.م Dhaher Power Company S.A.O.C.</p>	<p>دولة الإمارات العربية المتحدة الهيئة الاتحادية للكهرباء والماء Federal Electricity &amp; Water Authority</p>		
<p>وزارة الكهرباء</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>شركة أبوظبي للمرافق ADPC</p>
<p>الشركة السعودية للكهرباء Saudi Electricity Company Empowering Energy</p>	<p>بروج Borouge</p>	<p>KAHRA MAA كهرماء المؤسسة العامة للكهرباء والماء Qatar General Electricity &amp; Water Corporation</p>	<p>هيئة مياه وكهرباء أبوظبي Abu Dhabi Water &amp; Electricity Authority</p>	
<p>Ajl Al Aree Electricity Company saec شركة أم الجولف للكهرباء والماء ش.م.ع.م</p>	<p>TRANSCO شركة أبوظبي للنقل والتحكم Abu Dhabi Transmission &amp; Despatch Company</p>	<p>شركة كهرباء مجان ش.م.ع.م Majani Electricity Company (SAOC)</p>	<p>هيئة كهرباء ومياه الشارقة Sharjah Electricity &amp; Water Authority</p>	<p>TENAGA NASIONAL</p>



 Our Offices

**POWER ECONOMY MIDDLE EAST CO. L.L.C.**  
Abu Dhabi, UAE

**POWER ECONOMY OMAN L.L.C.**  
Muscat, Sultanate of Oman

**POWER ECONOMY USA LLC**  
Allentown, USA

**PEI MALAYSIA SDN.BHD**  
Negeri Sembilan, Malaysia

 Our Group Companies

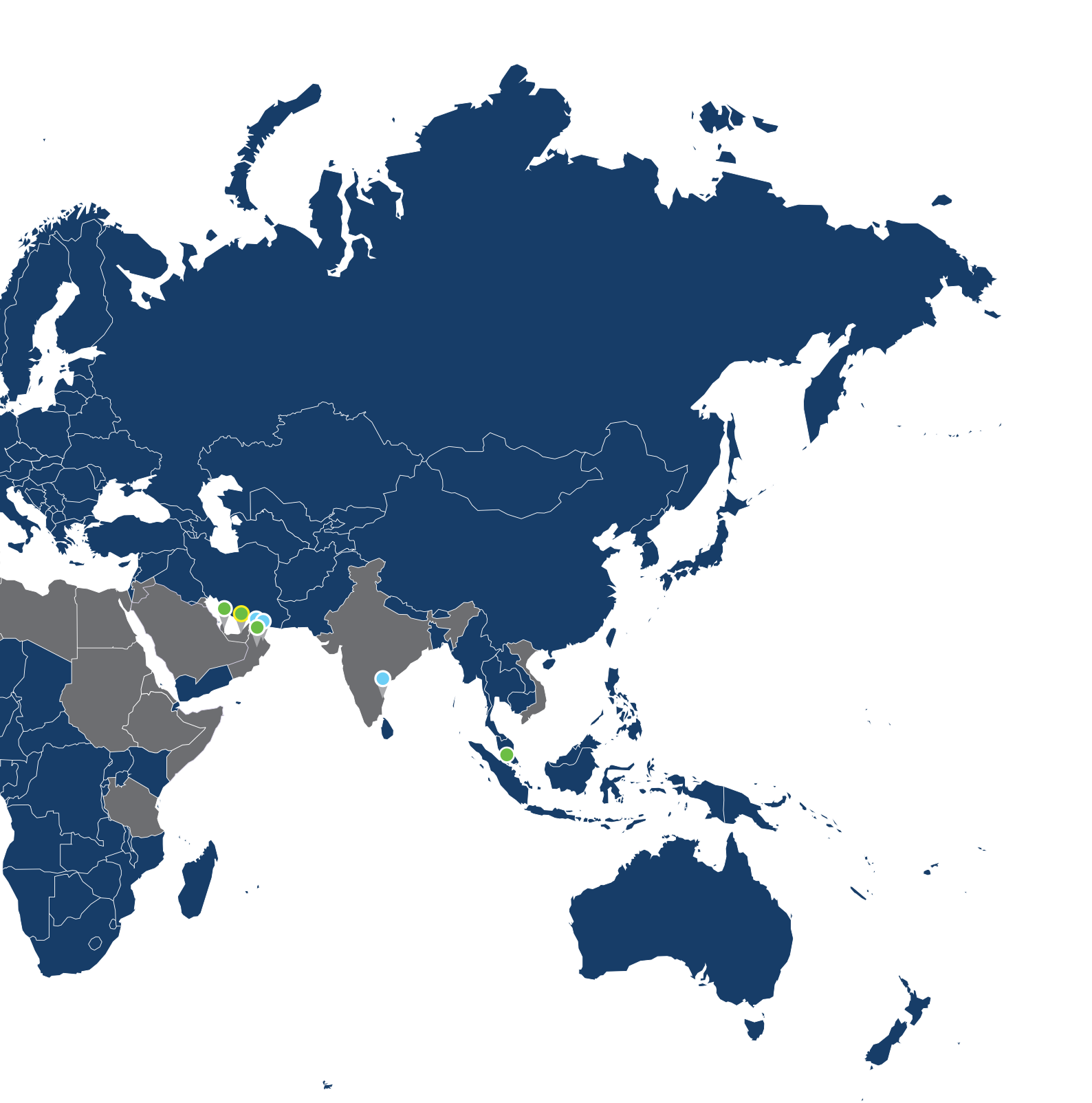
#### **U.A.E.**

**MUSANDAM ELECTRICAL EQUIPMENT CO. LLC.**  
Abu Dhabi  
**ELECTRICAL SUPPLIES EST.**  
Abu Dhabi

#### **Sultanate of Oman**

**AL MURAD INTERNATIONAL CO. LLC**  
Muscat  
**MAJAN SWITCHGEAR CO. LLC.**  
Sohar





● Our Presence

## USA

### UNITED ELECTRIC SYSTEMS INC

Allentown

## India

### DEUTSCHLAND TRANSFORMERS PRIVATE LIMITED

Chennai

### OHM ENERGY MANAGEMENT SYS PVT LTD

Chennai

### Power Economy Electrical Engg. Pvt. Ltd.,

Chennai

UAE

Oman

Qatar

Kuwait

Saudi Arabia

Jordan

Malaysia

Vietnam

Morocco

Algeria

Tunisia

Libya

Egypt

Sudan

Ethiopia

Somalia

Tanzania

Eritrea

USA



## **POWER ECONOMY MIDDLE EAST CO. L.L.C**

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USA, Tel: +1-610 530 0109 Cell: +1-610 216 6626  
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Negeri Sembilan, Malaysia

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Email: sales@powereconomy.my

## **PREDICTIVE ENERGY INSTRUMENTS PVT. LTD.**

S.V. Towers,  
Anna Nagar West,  
Chennai-600 040  
Tamil Nadu, India

Tel: +91 44-4559 0118

Email: info@predictiveenergy.in



## **UTILITIES SERVED:**

ADWEA (ADDC, AADC & TRANSCO), UAE  
SEWA, UAE

FEWA, UAE

Muscat Electricity and distribution Co., Oman

Mazoon Electricity Distribution Co., Oman

Majan Electricity and Distribution Co., Oman

OETC, Oman

RAECO, Oman

DPC, Oman

KharaMaa, QATAR

Saudi Electricity Co, K.S.A

National Electricity Corporation, SUDAN

MEW IRAQ

Nigerian utility

TNB Malaysia

## **COMMERCIAL SEGMENTS SERVED:**

Hotels complexes

Office complexes

Residential complexes

Shopping malls

## **OIL & GAS:**

Abu Dhabi company for onshore oil operation

GASCO, Abu Dhabi

ADCO, Abu Dhabi

NPCC, Abu Dhabi

Petroleum development, Oman

Occidental, Oman

ORPC, Oman

Egyptian petrochemicals co., Egypt

FPCC refinery project, Taiwan

## **INDUSTRIES SERVED:**

Cement production

District cooling

Aluminium production

Steel melt shops

Steel rolling mills

Sugar production

Water pumping stations