



شركة تحكم العالمية للطاقة ذ.م.م  
ENERGY INTERNATIONAL CONTROLS L.L.C



ENERGY  
INTERNATIONAL®  
ENERGY INTERNATIONAL CORPORATION

## EXTRA LOW VOLTAGE SYSTEMS DIVISION



YOUR SINGLE SOURCE FOR PROFESSIONAL  
ENGINEERING SOLUTIONS

**ABB**

**INOTEC**  
Sicherheitstechnik GmbH

**tyco**

Johnson  
Controls 

**legrand®**

**TRIDIUM**

**iSMACONTROLLI**





# YOUR SINGLE SOURCE FOR PROFESSIONAL ENGINEERING SOLUTIONS





# OUR SUCCESS STORY

**Energy International Controls** (EIC) is a division of Energy International Corporation and the Energy International Group of Companies. The Parent company **Energy International Corporation** is a leader in the design, supply, installation, operation and maintenance of HVAC and electro-mechanical equipment to consultants and contractors throughout the Middle East and North Africa.

Currently, the Energy International Group employs more than 370 people and has grown to encompass several divisions serving the HVAC & Industrial, Building Automation Controls, Air Purification and Parking and Transportation industries through offices and agencies in The United Arab Emirates, Saudi Arabia, Jordan, Lebanon and Qatar. The company also operates its own manufacturing facility in the UAE producing products for the building controls and HVAC industrial divisions as well as providing sales and service to customers in the entire region.

Through a commitment to excellence in quality, engineering and service, Energy international has established enduring relationships with the region's major contractors, and government and corporate entities, proudly contributing to the creation of international airports, trade centers, shopping malls, gasoline refineries, hospitals, five-star hotels, schools and manufacturing facilities throughout the MENA region and around the globe.

**Energy International Controls** is a Saudi-registered company operating three offices in Jeddah, Riyadh and Dammam. The company provides ELV turnkey solutions for clients in the KSA. Moreover, Energy International Controls is an authorized distributor for an impressive list of American and European manufacturers of Low Voltage and UPS Products.

## **Core values**

We firmly believe that our success as a company is dependent on the adherence to our company's core values; honesty, integrity, respect for others and a belief in the fundamental importance of trust, openness, teamwork, professionalism and pride in what we do

## **Business Strategy**

Energy International Corporation understands the importance of building lasting and valued relationships with our customers and suppliers. We fully understand that our success for the last 44 years is due to the relationships we have built with those we do business with. We believe that the demand for genuine engineering innovation will be integral to the global need for economic development for years to come. Our objective is to search for and develop business avenues to meet the ever-evolving demands for engineering products and services. Our role is to ensure that we deliver innovation profitably in an environmental and a social responsible way.

## **Commitment to Safety**

Energy International is dedicated to creating a safe and secure working environment for all of our employees. Our employees are our most important asset and we will do whatever is necessary to make sure they are with us for a long time. We have instituted proper safety protocols in all aspects of our operations and have moved beyond simply following rules and regulations by instilling a culture of caring in our company that is carried from the workplace into the world.

## **Commitment to Sustainability**

Energy International is committed to being a conscientious corporate citizen. We have instituted practices within our company for using our resources wisely, reducing waste, conserving energy and reducing our environmental footprint. We strive to assist our customers with the same goals by supplying them with products and technologies that adhere to the principals of energy conservation.

# OUR PRODUCTS AND SERVICES FOR THE SAUDI MARKET

## ELV Systems Division

Integration and Middleware Solutions

Building Management Systems

Access Control Systems

CCTV Systems

Central Battery Systems

Wiring Accessories

Lighting Control Systems

Guestroom Management Systems

Home Automation Systems

Commercial UPS Systems

Industrial UPS Systems

Energy Saving Solutions

ELV Systems Maintenance

ELV System Upgrades





# INTEGRATION AND MIDDLEWARE SOLUTIONS

- **Energy International Controls** is an expert in large project system integration and integration across multiple sites with various systems and protocols and with advanced graphics and analytics tailored to client requirements.
- Energy International uses the Tridium Niagara Framework® which connects the enterprise to provide better energy management, enhanced security, operational excellence, lower costs and end-to-end efficiency across multiple industries.
- A truly open platform, Niagara enable seamless integration of many protocols with hardware or software integration and with data stored at the client facilities or in the cloud.
- Niagara is a proven solution in the Middle East with excellent technical support to meet all of our integration needs.
- Today, there are over one million instances of Niagara at work in hundreds of thousands of projects worldwide covering a wide range of applications. You can deploy Niagara to integrate the many different controls and environmental-monitoring sub-systems necessary to support operations in an almost limitless set of scenarios.

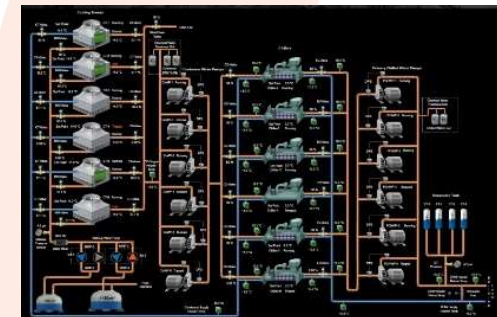
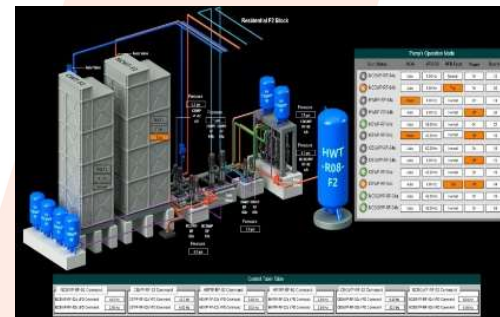
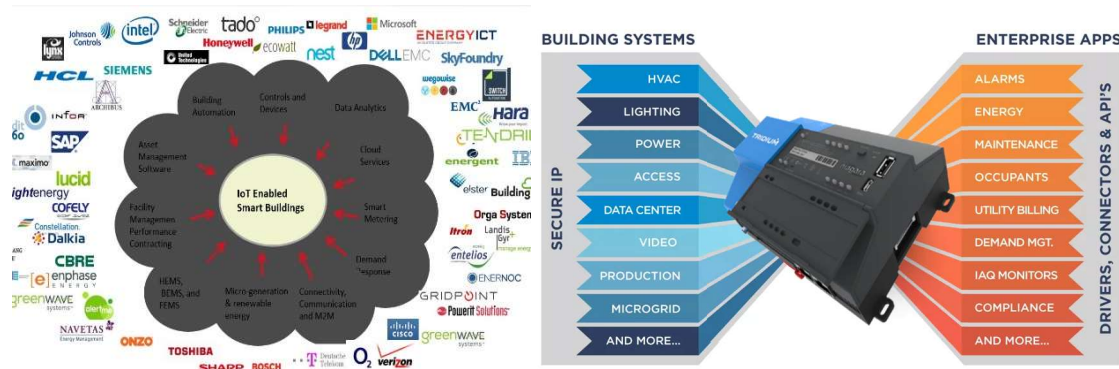
# BUILDING MANAGEMENT SYSTEMS

At Energy International, we are proud Designers, Installers and Integrators of the latest open protocol BMS products to achieve cost and time commitments.

**Our BMS services include controlling and monitoring of the following:**

- Heating, Ventilation and Air-Conditioning (HVAC)
- Mechanical Systems
- Electrical Systems
- Metering
- Illumination
- Car Park Ventilation
- Energy Savings
- Integration with other systems such as:

Fire Alarm System  
 Facility Access Control  
 Closed-Circuit Television (CCTV)  
 Public Address System  
 Emergency Lighting  
 Chillers  
 Others



# ACCESS CONTROL SYSTEMS

**Access Control gives you the ability to control, track, secure and protect your facility. Energy International designs and implements various solutions for Access Control Systems with high scalability and adaptations to suit your specific needs.**

Energy International provides solutions and implements access control environments that integrate with the most advanced security technologies with innovative networking capabilities to bring you an enterprise class security solution. We design powerful and flexible security management systems with many features such as monitoring events, managing personnel, creating reports, displaying dynamic views, monitoring system activity, viewing video and managing visitors anywhere in the world directly from your PC or on a mobile app.

We have the experience to design and install access systems starting from small standalone systems up to enterprise level systems which range from one master application up to 40 satellite application servers for enterprise scalability with 200,000 readers and 500,000 credentials operated under one system for management, monitoring, and reporting.

EIC experts take great pride in our ability to design leading technology Access Control Systems and integration with CCTV, Barrier Systems, BMS, Fire Alarm and Middleware Systems.





## CCTV SYSTEMS

Energy International provides turn-key solutions for surveillance requirement inclusive of design, equipment selection from leading security manufacturers, installation and warranty. We are experts in large projects with a high level of integration with other systems such as BMS, Access Control, Fire Alarm and Middleware Systems. Our solutions are flexible for small-scale and large-scale projects with a comprehensive approach to ensure the security of customers and their assets.

CCTV System benefits include real-time video monitoring and video wall displays. We provide video analytics to add further intelligence by cutting through vast amounts of live video quickly and generating alerts only on incidents of concern. Video analytics solutions can capture and identify various types of content and events, including motion detection, facial recognition, crowd and vehicle counting, heat maps, dwell time in shopping aisles, traffic and queue detection, perimeter protection, camera tampering, loitering and left object detection. Adding more integration analytics tools into your surveillance system can make it more intelligent and effective. Analytics will help your staff react immediately and often proactively to potential threats.

Our team of CCTV engineers and installers has extensive experience in designing and installing large scale CCTV surveillance projects in different industries. We offer the highest quality and performance at competitive prices.



# CENTRAL BATTERY SYSTEMS

**Energy International Controls** is a leading supplier of Central Battery Systems. Our Central Battery System has the following features and advantages:

- Central monitoring of all connected luminaires and the backup system without additional installation requirements.
- Modular system design with 19" racks.
- Compact versions. Up to 48 free programmable emergency outputs 3 A or 24 outputs 6 A. Lead acid gas recombination batteries 220 V, 10 years rated lifetime. NiCd on request.
- Simple engineering due to free programmable maintained/non maintained switching modes.
- Expandable system; with emergency lighting substations and separate battery racks or battery housings.
- Low service and maintenance requirements.
- Mandatory logbook function included.
- Maintenance free 220 V central battery system with automatic function monitoring.
- Individual luminaire monitoring without additional data line.
- Final circuits with changeover devices.



# WIRING ACCESSORIES

**Wiring accessories are more than just light switches and socket outlets. We offer a wide range of dimmers, socket outlets, data communication outlets, USB chargers, movement detectors, thermostats, timers, etc.**

- European Design, made to last in terms of Quality and Style.
- Slim, only 4 mm with straight and square lines at the forefront.
- Finest materials only: Stainless Steel and Chemically Strengthened Glass (CSG).
- Up-to-date: currently available in 8 materials/colors, planned extensions.
- Two rocker designs: including a chrome profile that gives a special touch at first sight.
- Market-proven: 9 years in the market, 2,500,000 products sold.
- 10-year warranty (standard parts) and 2-year warranty (electronics).
- Conform to int'l standards: CE, BS, G-Mark, SASO and Singapore Safety Mark.
- More than 32 functions for specific applications: hotels, office buildings, etc.
- Compatible with building automation solutions from KNX to ABB free@home.
- Two formats for sales: Complete sets (AM) vs. Grid system (AMD).
- Grid system allow end-customer to combine colors.





# LIGHTING CONTROL SYSTEMS

Our Lighting Control Systems are based on an intelligent network lighting control solution that incorporates communication between various system inputs and outputs related to lighting control with the use of one or more central computing devices.

**Our Lighting Control Systems provide the ability to automatically adjust a lighting device's output based on:**

- Chronological time (time of day)
- Astronomical time (sunrise/sunset)
- Occupancy using occupancy sensors
- Daylight availability using photocells
- Alarm conditions

**Energy International is an expert in the KNX Open Protocol and Dali Lighting Systems**



# GUEST ROOMS MANAGEMENT SYSTEMS

▶ Our Guest Room Management System (GRMS) provides state-of-the-art solutions to the lighting, HVAC and all other hotel guests' service needs. Our intuitive touch panel interfaces give the guests control of all the connected systems through simple and easy to use graphics. Our products will help you to effectively and efficiently manage guest room energy consumption and drive the hotel's vision of the optimal in room experience generating greater guest satisfaction.



▶ Our GRMS provides centralized, holistic visibility and control of guest rooms, and integrates with other services such as BMS, PMS and Access Control. Hotel staff can easily view room conditions such as occupancy, energy use, temperature, humidity, and maintenance needs, along with HVAC, curtain, DND/MUR, door, and window status. Now you can manage individual rooms, or the entire network of rooms, to drive energy efficiency, monitor alarms and events, and perform proactive maintenance.

# HOME AUTOMATION SYSTEMS

Live smarter with our top of the range Home Automation Systems. Not only are our systems energy efficient, but they are also designed to suit your lifestyle enabling you to seamlessly take control of your home.

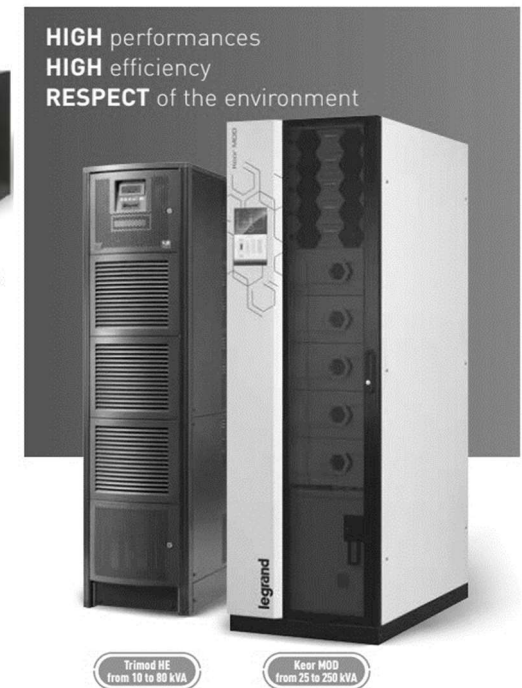
- Control lights and curtains based on time & occupancy
- Control thermostats based on schedules & occupancy
- Ensure entry and garage doors are closed & locked remotely
- Monitor video cameras on your home automation system
- Detect vehicles in your residence (entering or leaving)
- Control audio & video equipment around your home
- Automatically shut off water when leaks are detected
- Completely power down equipment and other appliances at night or when not in use
- Control energy costs based on usage and projections
- Control and program your home by voice and receive spoken alerts, announcements & reminders
- Interface with your entire Home Automation System remotely using a tablet or a phone
- Keep tabs on your secondary home or rental property
- Many other options tailored to suit your needs





## COMMERCIAL UPS SYSTEMS

- ❑ In-depth research on the best electronic components on the market combined with state-of-the-art manufacturing methods, make Legrand UPS extremely reliable and abreast of the times.
- ❑ The innovative design and high quality of the components used enable our UPS to achieve up to 97.2% efficiency, leading to significant energy savings.
- ❑ Efficient UPS built with maximum attention to detail. Moreover, Legrand has developed an innovative testing system which reduces the energy consumed for each device manufactured.
- ❑ Each type of UPS is characterised by different design properties, which means that the range is ideally suitable and usable in different environments, from domestic to tertiary and industrial sectors, and applications in specific fields.
- ❑ Available in Single Phase and 3 Phase.
- ❑ Output Voltage Range from 600 VA up to 21 MVA.
- ❑ On-line Double Conversion technology.



## INDUSTRIAL UPS SYSTEMS

- ABB's PowerLine DPA is an online double conversion UPS and makes the advantages of ABB's unique modular UPS architecture available for locations that are usually rough on electronic equipment.
  - Its robust design is suitable for industrial plant environments that have a variety of temperatures, dust, moisture and corrosive contaminants.
- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>• High overload and short-circuit capability</li> <li>• Galvanic isolation and step up-down voltage transformers</li> <li>• High capacity for battery current charge for long battery banks</li> <li>• 15 years design life</li> <li>• Decentralized Parallel Architecture</li> <li>• No single points of failure</li> <li>• Replace or add modules with no downtime</li> <li>• Short mean time to repair</li> <li>• High degree of protection</li> </ul> | <ul style="list-style-type: none"> <li>• Suitable for controlled environments</li> <li>• Small footprint with high power density</li> <li>• Top/bottom cable entry</li> <li>• User-friendly operating interface</li> <li>• Fast &amp; easy maintenance</li> <li>• Full front access</li> <li>• Reduced spare parts needed</li> <li>• Comes in single phase and 3 phase</li> <li>• UPS frame rated power 20 - 120 kVA (3ph)</li> <li>• UPS frame rated power 20 - 80 kVA (1ph)</li> </ul> |
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# ENERGY SAVING SOLUTIONS

Energy International has the expertise to design and implement Energy Saving Solutions on a wide variety of projects. Our core strengths in Building Management Systems and Building Control Strategies enable us to tackle the most challenging aspects of Energy Savings by modifying and upgrading existing Building Controls Equipment in addition to replacements or modifications to other critical energy consuming equipment.

## PROJECT ENERGY SAVING STEPS:

- Site Survey to Identify Saving Opportunities
- Action Plan Development
- Feasibility Study
- Project Design
- Material Supply
- Material Installation
- Programming/Testing
- Energy Savings Verification

## OUR ENERGY SAVING PRODUCTS | SERVICES INCLUDE:

- LED Lighting
- VFDs
- FAHU Heat Wheels
- High Efficiency HVAC Equipment
- Building Controls based on Outdoor Conditions
- Photovoltaic Panels
- Solar Water Heating
- Wind Turbines







# ELV SYSTEM MAINTENANCE/ ELV SYSTEMS UPGRADES

If you are looking for low voltage system maintenance or upgrades for obsolete systems or protocols, you've come to the right place. At Energy International, we provide turnkey solutions for low voltage systems including:

- Building Management Systems
- Lighting Control Systems
- Home Automation Systems
- GRMS
- CCTV System
- Access Control System
- Public Address System and Audio Solutions

With the market growing rapidly using new technologies and improved system features, we offer a wide range of system upgrades and services:

- Full replacement of ELV Systems.
- Upgrades of head-end equipment and communication protocols to integrate with new systems.
- Software upgrades to ensure continuous support by manufacturers and acceptance of new controllers.
- Upgrades and replacements of field devices and products.
- HVAC products upgrades (chillers, AHU's, VFD's, etc.).
- Upgrades and replacements for energy saving purposes.



# OTHER PRODUCTS FROM ENERGY INTERNATIONAL

## HVAC Division



**Twin City Fan & Blower** is an industry leading manufacturer of high-quality custom, semi-custom, and standard fans ranging from heavy duty industrial process fans to OEM fans to a complete line of commercial supply and exhaust fans for the HVAC market.



**Airstream** offers a complete line of quality air distribution products and air terminal units including grilles, registers, diffusers, and air terminal units.



**Powered Aire Inc.** specializes in designing, engineering and manufacturing a full line of competitively-priced, stainless steel commercial and industrial air curtains.



**BLE** designs, manufactures and installs gravity failsafe smoke and fire curtains that offer the latest in electronic technology and innovation.



**Watts Water Technologies** designs and manufactures an extensive line of flow control, water safety, water filtration & treatment, drainage, and PEX plumbing products for the commercial, residential, and institutional markets.



**Wolter GmbH** is a leading manufacturer of ventilation equipment for the world market including a line of axial and centrifugal exhaust and circulation fans for commercial and industrial use along with systems for parking structures.



**Jeremias** is one of the world's leading manufacturers of flue and chimney systems for the exhaust of gases and ventilation, covering all kinds of domestic, commercial and industrial applications.



**Armstrong Fluid Technology** produces the most innovative and energy-efficient fluid flow control equipment for HVAC and water-based process application.



**TUTCO** supplies electric resistance heating elements for a broad range of applications, including duct heaters, window air conditioners, aerospace, automotive, medical, food, packaging and other OEM industrial processing equipment.



**Purified Air** designs and manufactures bespoke systems for the filtration and control for oil, smoke, grease and odour produced by commercial kitchens. Purified Air systems are widely used by fast food, casual dining and fine dining markets around the globe.



**Moffitt Corporation** designs, manufactures and installs industrial ventilation equipment serving heavy commercial and industrial facilities in the U.S. and around the world.



**CAREL** designs, manufactures and distributes control and humidification solutions for the residential, industrial and commercial segments in the HVAC market.



**Tower Tech** is a leading provider of modular cooling towers both for temporary rental applications and for permanent installations.



**Filcar** specializes in the extraction of vehicle exhaust extraction, welding fume exhaust extraction and the extraction of sanding dust. The company also offers fluid and energy distribution systems for automotive repair facilities.



**Hurst Boiler & Welding Company, Inc.** manufactures a complete line of boilers including gas, oil, coal, solid waste, wood, biomass and hybrid fuel-fired steam and hot water plus a complete line of parts and boiler room peripherals.



**SIEMENS** produces a versatile range of valves and actuators designed for ease of use, superior control accuracy, and energy efficiency.





# A FEW OF OUR SUCCESSFUL ACHIEVEMENTS



**DOHA OASIS MIXED USE DEVELOPMENT**

Doha – Qatar



**VIVA BAHRIA TOWERS  
3, 4, 5, 11, 12, 17 & 29**

Doha – Qatar



**QATAR FOUNDATION STUDENT HOUSING (Male/Female)**

Doha – Qatar



**DUBAI FESTIVAL CITY (Hotels and Commercial Tower)**

Dubai – UAE



**KAFD**

Riyadh - KSA



**QANAT QUARTIER (PEARL ISLAND)**

Doha – Qatar



**MINISTRY OF INTERIOR HQ**

Jeddah - KSA



**MISK SCHOOLS**

Riyadh - KSA



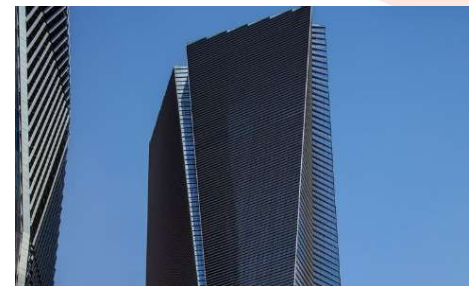
**QUEEN ALIA INT'L AIRPORT**

Amman – Jordan



**KING ABDULAZIZ INT'L AIRPORT**

Jeddah - KSA



**TADAWOL TOWER**

Jeddah - KSA



**IBRAHIM AL KHAIL MALL**

Makkah - KSA

For a complete list of projects visit us online at [www.energyintl.com](http://www.energyintl.com)



# A FEW OF OUR SUCCESSFUL ACHIEVEMENTS



**AMERICAN INT'L SCHOOL**  
Jeddah - KSA



**IKEA - AL SALAM MALL**  
Jeddah - KSA



**TAIF SPECIALIZED HOSPITAL**  
Taif - KSA



**RIYADH METRO**  
Riyadh - KSA



**BAHRAIN INTL' AIRPORT**  
Muharraq - Bahrain



**RABINSON DEPT STORE**  
Jeddah - KSA



**LULU HYPERMARKET**  
Riyadh - KSA



**KIND ABDULAZIZ CENTER** Dhahran -  
KSA



**HARAMAIN HIGH SPEED RAILWAY**  
Jeddah - KSA



**HAMAD MEDICAL CENTER EXTENSION**  
Doha - Qatar



**SHAMS GATE**  
Abu Dhabi - UAE



**AL WAKRA HOSPITAL**  
Al Wakra City - Qatar

For a complete list of projects visit us online at [www.energyintl.com](http://www.energyintl.com)



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Rami Fawaz, President

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## OUR MAIN SAUDI ARABIA OFFICES

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