

## COMPANY PROFILE



### M. ADVANCED ENERGY SYSTEMS (MAES)

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#### *Products & Services:*

- CCTV, Security System & Communication System
- Automation & Power Quality Solution & Services

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## Company Details

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**MAES**  
Power & Energy

## Introduction

**M. Advance Energy System (MAES)** is a group of companies based in Kingdom of Saudi Arabia with Head office in Al Khobar under Saudi Ownership.

**MAES**, is a technology Company dedicated to continuously enhance its competencies in **CCTV & Security System, Energy Efficiency** to address the pressing needs of consumers to have **secured facility, reliable power** and to **conserve energy**. To achieve these objectives, the Company provides solutions and services utilizing **Power Quality, Energy Management, Power & Energy Monitoring, Power Automation & SCADA, Power Protection, and Fiber Optic Splicing, Termination, and Testing**.

**MAES** also provide quality services to **Oil & Gas sector, Petrochemical, Power Generation Co, Industries, Academic Institution, Commercial Sector** etc. in **Trading, Contracting** operating all over the Kingdom of Saudi Arabia.

Our aim is to deliver with highest regard to quality, safety, honesty, integrity customer satisfaction. **MAES** continues enjoy strong long-lasting beneficial relationship with reputed and highly regarded local and international companies.

Our Staffs are highly qualified and experienced and their varied construction experience enables us to execute the projects with quality safety and satisfaction.

What sets us apart:

- We are firmly believers in customers involvement in the project and we encourage you to bring to the table your knowledge of their environment to the table. Clients are the specialist when it comes to their products and their market. Clients excel in your field, and we excel in ours: the field of automation.
- We are highly experienced in the industry, and the sole goal of our experience staff is to identify challenges in order to offer clients innovative solutions that will yield substantial saving and improve their productivity.
- We have what it takes to increase your efficiency by optimizing a strategic production unit within your companies or by designing an overall plan to improve productivity.
- Our extensive experience with systems puts us in an ideal position to help clients achieve the industrial efficiency they are seeking, minimizing costs while respecting the quality of products.
- By working closely with clients' existing staff, we are able to implement solutions to meet specific needs and make a positive impact on production and quality.



## Mission & Vision



Our **Mission** is providing high quality of services at most competitive price without compromising quality, safety and environment. When it comes to our services, we make sure that we keep in mind even a minute detail to serve our client better and maintain our good relation with them.

Our **Vision** is to become:

- ❖ Consistently deliver, as per committed Schedules, **CCTV & Security System, Power Automation, Energy efficiency & Power Quality Solutions & services** that are Cost-effective & are of the required Quality in order to successfully satisfy the requirements of our Customers at the Lowest Cost of Ownership with the Highest Yield & Uptime, thereby creating value for our Customers, Shareholders, & Employees.

## Our Values



We value our relationship with our customers, we seek to bring you an innovative ideas and products that creates income and opportunities.

We proud ourselves on our level of experience and the technical support we provide.

Our active participation in industries allows us to bring you the latest information and technology. We committed to offer the quality of service that meet your needs.

We support you with your need including design, consultation and specification, assistance, sales & promotion, on job site training and quality review to achieve project success milestone.

We welcome your comments and guidance to help us to serve you better with your need and growth.

## Health, Safety and Environmental Policy (HSE)



Our active participation in industries allows us to bring you the latest information and technology. We committed to offer the quality of service that meet your needs.

The management and staff are committed to:

- Ensure safety and welfare of our staff and the protection of our assets.
- Prevent adverse impact on the environment as a result of our action.
- Comply with all relevant health, safety and environment laws and regulations.

We are committed to achieve this by:

- Establishing and maintaining a documented health, safety and environment procedure.
- Management system that will meet local and international standards.
- Ensuring that the HSE policy is implemented successfully.
- Providing the necessary resource for the implementation of the management system
- Communicating the company HSE policy and objectives to all our employees, clients and suppliers.
- Ensuring the management is commitment to the HSE policy.



## Nature of Business

**Our Business Activities:** - We able to provide either a complete Engineering package or, if required, specialized services to meet the individual clients' needs. This enables our clients to have a single point contact for numerous disciplines available and insures complete and efficient service from and within our organization.

### A. Trading:

- **CCTV, Security System, & Communication System**

- Surveillance cameras and remote monitoring
- Communication & Internet wired & wireless IT system products & Networking
- Finger print for time attendance and access control for the gates
- Car and properties tracking system
- Smart homes automation
- IP telephone system
- Paradox security alarm system
- Intercom system



- Energy Management System (EMS), Power Monitoring Systems (PMS),  
Electrical Power Monitoring Systems (EPMS)
  - [Schneider Electric](#)
- SCADA, Substation Automation System (SAS), Power Systems Automation  
(PSA), Reduced PSA, Remote Switching & Monitoring System (RSMS)
  - [COPA-DATA](#), [Schneider Electric](#), [Survalent Tech](#), [Brodersen](#)
- Power Meters / Smart Power Quality Meters / Totalizer
  - [Schneider Electric](#)
- PLC/RTU, Industrial Ethernet/FO switches, Converters, Wireless / GPRS / WIFI  
/ Radio communication system
  - [Schneider Electric](#), [Brodersen](#), [Moxa](#), [Advantech](#), [Anybus](#)

- Power Factor Correction System/Capacitors/Detuning Reactors
  - [Schneider Electric](#), [Comar -Italy](#), [EPCOS](#)
- Active/Passive Harmonic Filters System
  - [Schneider Electric](#), [Comar – Italy](#)
- UPS & Stabilizers
  - [APC & Gutor Schneider Electric](#), [Salicru - Spain](#)
- Batteries & Battery Chargers
  - [Salicru, Spain](#); [Gutor Schneider Electric](#)
- VFD & Soft Starters
  - [Schneider Electric](#)
- Transformers & Electrical Panels

## B. Our Services:

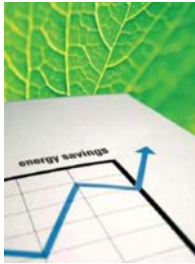
### 1. CCTV, Security System & Communication System

- Design, Engineering, Supply, Installation and Commissioning of CCTV system, Security System, IP telephone and intercom system, Smart home automation and many more technologies.





## 2. Energy & Power Quality Audit, Studies and Analysis



**MAES** provide turnkey solutions to improve **Energy Efficiency**. This involves performing complete **Energy Audits, Harmonics Audits**, to provide **Energy Savings and Power Quality solutions** for the Industrial, Commercial, Public and Private sectors that delivers winning sustainability, savings, efficiency, power availability, and more.

The symptoms of poor power quality can cause major system disruptions. More often than not, these disruptions can interfere with your daily business processes and incur considerable expenses with a significant impact on your company's bottom line.

Did you know that partial process failures, complete production stoppage, equipment & process malfunctions and shutdowns could be caused by poor power quality issues? Most of the time, these go unnoticed as a result of failures being attributed to an incorrect cause. **MAES** employs industry best practices to investigate your power quality status, identify any problems, and propose customized solutions that suit your needs and budget.

Through a comprehensive and meticulous assessment process, we:

- Monitor your distribution board for a certain period of time to capture load profile;
- Analyze logged data and pinpoint any on-compliances;
- Assess for external events and influences;
- Prepare comprehensive power quality report, analysis/evaluation identifying your facilities existing power inefficiencies.
- Formulate and implement a tailored, cost-effective power quality solutions.
- Supply of power quality solution, installation, commissioning, testing, training, and maintenance.

**MAES** provides power quality solutions and equipment to assist clients in effectively detecting problem areas and getting the most from their power. With a wealth of industry experience and know-how in developing power quality products and systems to our credit, we succeed in delivering products with high adaptability and simple and flexible application, as well as an excellent level of stability.



## 3. Power Quality Enhancement, Energy Efficiency and Savings

MAES is specialist in Power Quality and Energy Savings solution. It provides detailed power quality assessments and solution to industrial and commercial end user, as well as Electrical utilities. the power quality offering includes product that address:

- Power Factor Correction (Tuned & Detuned Capacitor Bank):  
[www.schneider-electric.com](http://www.schneider-electric.com) ; [www.comarcond.com](http://www.comarcond.com) ; [www.epcos.com](http://www.epcos.com)
- Harmonics Mitigation/Filters: [www.schneider-electric.com](http://www.schneider-electric.com) ; [www.comarcond.com](http://www.comarcond.com)
- Uninterruptible Power Supply (UPS): [www.schneider-electric.com](http://www.schneider-electric.com) ; [www.salicru.com](http://www.salicru.com)
- VFD, & Soft Starter: [www.schneider-electric.com](http://www.schneider-electric.com)
- Voltage Stabilizer, & DC systems: [www.salicru.com](http://www.salicru.com)



LV/MV PFC Panels  
(detuned/non-detuned Capacitor Bank)



Active Harmonic Filter



Capacitors & detuned reactors



Electronic/ServoMotor  
Voltage Stabilizers



UPS



Variable Frequency Drives (VFD)



Soft Starters



DC Power Converters

## 4. Digital Monitoring Systems

### ➤ Power Meters – Power Quality Meters, Smart Meters

ION 9000 Meter



PM 8000 Meter



PM 5000 Meter



ION 8800 Meter



ION 8650 Meter



ION 7650 Meter/  
ION 750RTU



ION 6200 Meter



PM 2000 Meter



## 5. Supply of other Electrical Systems

- Power/Tariff Metering panels
- Annunciation cabinets
- Marshalling cabinets
- Power distribution panels
- Synchronizing panels
- Automatic transfer switch (ATS) panels





## 6. Energy Management and Automation

**MAES** have an abundance of experience in the field of Power Monitoring and Automation, strengthened by its alliances with industry leaders.

We have an experienced team of Engineers who have designed and commissioned projects ranging from basic **Power Monitoring Systems** to complete **Substation Automation Systems & SCADA based on IEC 61850 specifications, OPC, Modbus, DNP3**, etc.



**MAES** is a Knowledge organization and places a great deal of importance in keeping its engineers certified and well informed of the latest technologies.

With the range of alliances and our experience we can offer our clients innovative and customized solutions. These solutions are not only cost effective but are tailored to meet the client's specific needs. **MAES** have the means and expertise to cater to virtually any customer need related to Power monitoring and control.



Our Engineers have designed and commissioned complete monitoring, automation and SCADA solutions for many electrical substations at various Saudi Aramco plants and throughout the Saudi Arabian Industrial, and commercial sectors.

Automation solution, Metering & Services:

- **Power Monitoring Systems (PMS)**
- **Electrical Power Monitoring Systems (EPMS)**
- **Power Systems Automation (PSA) – for Aramco projects**
- **Reduced Power Systems Automation (PSA) - for Aramco projects**
- **Remote Switching & Monitoring Systems (RSMS) – for Aramco projects**
- **Billing System**
- **Tariff/Power Metering, PQ & Smart Metering, Power Totalizer**
- **SCADA**
- **GPRS & Wireless Automation Network**
- **Cloud Computing Communication Technology**

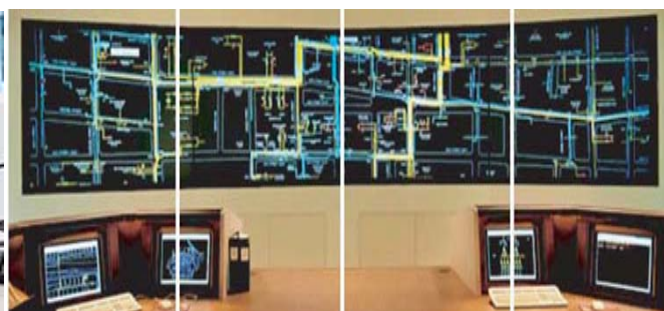
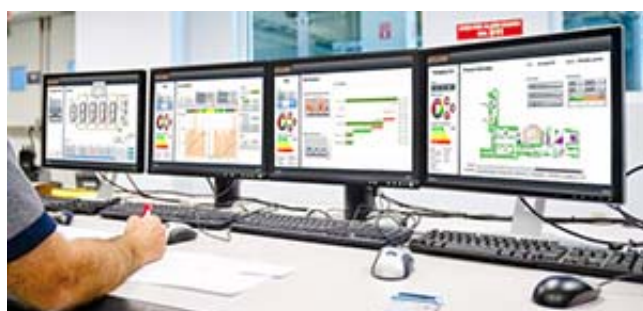




Our Automation services include Design, Supply, Installation, Testing, Commissioning, Training, Upgrade, Expansion, and Maintenance.

## Principals & Products

#	Products	Principals
1	EcoStruxure™ Power Monitoring Expert 9.0 Software StruxureWare Power Monitoring Expert 8.2 Software ION Enterprise Software Struxureware PowerLogic SCADA Expert Software	Schneider Electric, France
2	Zenon SCADA Software	COPA-DATA, Austria
3	Survalent SCADA Software	Survalent, Canada
4	Greenovative Energy Pvt. Ltd.	Pune, India
5	PowerLogic Power Meters	Schneider Electric, France
6	Industrial Data Communication Devices	Advantech, Moxa, Anybus



## 7. Fiber Optic, Copper Splicing Termination and Testing

**MAES** has highly qualified team to perform the following services:

- ❖ Fiber Optic cable Pre-installation testing
- ❖ Fiber Optic cable Post-installation testing
- ❖ Preparation, splicing and testing of fiber optic cable
- ❖ End-to-end testing using OTDR and Power Meter
- ❖ Copper UTP cable termination and testing



**Equipment** – **MAES** is equipped with the latest equipment on Fiber Optic Cable splicing/termination, testing and commissioning calibrated in accordance with the client requirements.

**Manpower** – **MAES** workforce comprised of highly qualified professionals and skilled workers with Saudi Aramco approvals, Cable Splicers, and Work permit receivers.

