



AES SQUARE

شركة أدفانسد إنجينيرينغ سولوشنز آند سيرفيسز

ADVANCED ENGINEERING SOLUTIONS & SERVICES

An ISO 9001:2015 | ISO 14001:2015 | ISO 45001:2018 Company

www.aess.com.sa

info@aess.com.sa



LET'S
DEAL
FAIR AND
SQUARE



COMPANY PROFILE- 2025





Precision in **Solutions**, Integrity in **Services**

COMPANY OVERVIEW

Founded on a legacy of entrepreneurial excellence and strengthened by more than 25 years of engineering expertise, **AES SQUARE (Advanced Engineering Solutions & Services)** was established with a long-term vision to support Saudi Arabia's economic transformation in line with Vision 2030. Our mission is to tackle the evolving challenges of the engineering sector while contributing the Kingdom's ambitious industrial growth.

We specialize in providing innovative and reliable solutions across a wide spectrum of services, including **smart industrial digital systems, valve automation, professional engineering services, shutdown solutions, LSTK project bulk supplies and MRO spare supplies**. At **AES SQUARE**, we combine technical expertise with industry insight to deliver value-driven solutions tailored to the evolving needs of our clients.

With a team of highly skilled engineering professionals, we are dedicated to delivering timely, efficient, and cost-effective solutions precisely aligned with the demands of each application.

At **AES SQUARE**, we take pride in offering every client the right expertise and unwavering support, ensuring solutions that truly address their needs.



EMPOWERED BY PURPOSE

Together, through safety, sustainability, integrity, and innovation, **AES SQUARE** strives to build not just projects, but an environmentally responsible future where humanity and progress flourish in harmony with nature.

Safety

Safety is not just a standard — it is a promise. At **AES SQUARE**, we pledge to create environments where every individual feels secure and protected. By leading through example and upholding the highest industry practices, we cultivate a culture of care and responsibility, ensuring that our workforce, partners, and communities are safeguarded at every step.



Integrity

Integrity defines who we are. Every action at **AES SQUARE** is guided by honesty, transparency, and respect. We hold ourselves accountable to the highest standards of professionalism, building trust not only with our employees and clients but also with the wider society we serve.



Environment

The **environment** is our shared legacy. **AES SQUARE** works alongside partners and communities to protect and restore the natural world, building pathways toward a cleaner and more sustainable future. Our vision is to ensure that generations to come inherit a world where progress and nature thrive in harmony.



Innovation

Innovation fuels our journey forward. At **AES SQUARE**, we see technology and creativity as bridges to a better tomorrow. By embracing bold ideas and smarter solutions, we strive to deliver lasting value to our clients while shaping a future where engineering drives sustainable growth for humanity.



QUALITY POLICY

At **AES SQUARE**, we are unwaveringly committed to quality. Our Quality Policy is designed to guide our operations, uphold excellence, and ensure consistent delivery of value to our customers.



Quality Commitment

We establish and maintain high-quality standards as recommended by our management team. Through systematic analysis, proactive improvements, and adherence to best practices, we continually enhance our performance. We are fully committed to meeting and exceeding the requirements of **ISO 9001:2015**.



Continuous Improvement

We believe in the philosophy of continual improvement across all services and processes. By embracing challenges and adopting innovative approaches, we consistently strive to surpass both internal expectations and customer requirements.



Key Objectives

- Ensure on-time delivery through effective planning and execution.
- Utilize calibrated, qualified equipment and proven methodologies to maintain high standards.
- Consistently exceed customer expectations and deliver complete satisfaction.
- Offer cost-effective solutions without compromising quality.
- Foster a culture of proactive problem-solving and continuous learning.

Our commitment to quality is more than a policy - it is a promise to our customers, employees, and stakeholders that every action we take embodies *excellence, reliability, & integrity*.



SCOPE OF SUPPLIES & SERVICES

Smart Digital Solutions

Valve Automation Services

MRO Spare Supplies

**Equipment Spare Parts
Services**

**Professional Engineering
Services**

**Lump Sum Turnkey (LSTK)
Project Supplies**

**Maintenance & Turnaround
Solutions**

SMART INDUSTRIAL DIGITAL SOLUTIONS

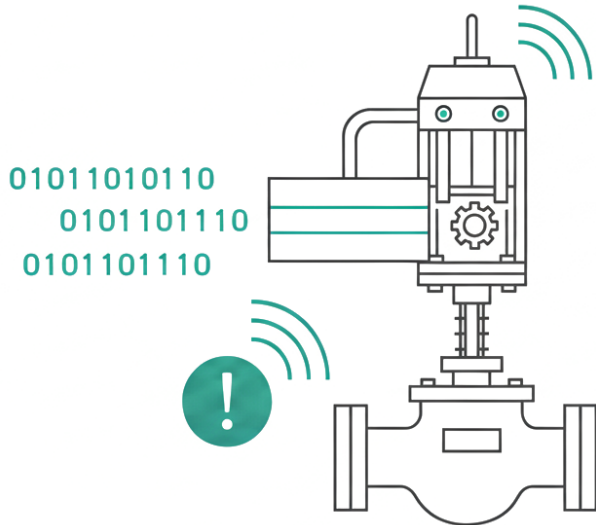
Transforming industrial operations through innovative digital solutions that digitize site processes, optimize resources, & deliver real-time insights for smarter, data-driven decision-making.

Key Capabilities:

- ✓ Field Hazard Assessment
- ✓ Strategy Execution & Management
- ✓ Data Governance & Security
- ✓ Inspection & Test Planning (ITPs)
- ✓ Permit-to-Work (PTW) Management
- ✓ Site Diary & Inspection Logs
- ✓ Health & Safety Audits
- ✓ Toolbox Meetings & Safety Briefings
- ✓ Document Control & Management
- ✓ Online Orientation & Induction Modules
- ✓ Training Management & Virtual Proctoring
- ✓ Competency Assessment & Recognition



VALVE AUTOMATION SERVICES



Supply Solutions

- Comprehensive range of quarter-turn and multi-turn valves, actuators, and gearboxes for diverse industrial applications.
- New & refurbished spare parts for valves, actuators, and MRO requirements ensuring reliability & operational continuity.

Installation & Assembly

- Mounting of electric, pneumatic, electro-pneumatic, and hydraulic actuators.
- Assembly, calibration, and testing of complete valve actuation units.
- Supply and installation of actuation accessories including positioners, solenoid valves, adaptor plates, limit switches, and associated piping.

Advanced Networking & Automation

- Customized solutions for valve actuator networking, compatible with standard protocols including AS-Interface, Profibus, and Foundation Fieldbus.

Maintenance & Repair

- **Valve repair services:** Disassembly, inspection, parts replacement, reassembly, testing, recertification, painting, and coating.
- **Valve and actuator retrofitting:** Expert solutions for industrial applications to enhance performance and extend equipment lifecycle.

MRO SPARE SUPPLIES

We professionally fulfil the MRO requirements through our global supply chain, ensuring uninterrupted operations and minimal downtime.



Supply of MRO Spare Parts

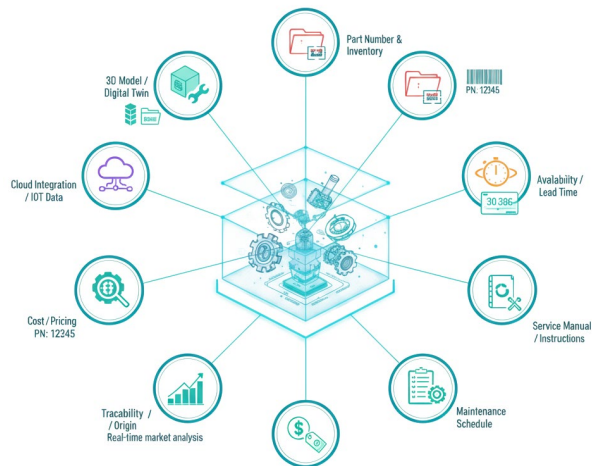
- ✓ Provision of a comprehensive range of Maintenance, Repair, and Operations (MRO) spare parts for multiple industries, including:
 - Oil & Gas
 - Hydrocarbon Processing
 - Food & Beverage
 - Manufacturing
 - Pharmaceutical
- ✓ Tailored solutions to meet operational requirements, ensuring high reliability and availability of critical spare parts.

MRO Purchasing Optimization

- ✓ Evaluation of current MRO procurement practices and identify opportunities for improvement.
- ✓ Implementation of efficient procurement schemes to:
 - Reduce on-hand inventory
 - Increase inventory turnover
 - Optimize overall MRO supply chain operations
 - Solutions for clearing excess and expired inventories effectively

EQUIPMENT SPARE PARTS SERVICES

Coordinating, reviewing, and standardizing SPDP documentation with qualified engineers, ensuring equipment spare parts are correctly catalogued and fully integrated into material management systems.



SPDP (Spare Parts Data Package) Services

- ✓ Coordination, planning, and review of SPDP for effective spare parts management.
- ✓ Engagement of qualified engineers for technical evaluation and review of SPDP.
- ✓ Systematic cataloguing of equipment spare parts and material masters into enterprise systems.
- ✓ Regular progress reporting and status updates to ensure timely delivery.

SPDP Services Include

- Coordination and planning of SPDP documentation
- SPDP technical review with qualified personnel
- Equipment spare parts and material master cataloguing
- Regular reporting on progress and completion status

Equipment Spare Parts Cataloguing & Standardization

- ✓ Deployment of qualified personnel and IT resources to standardize and catalogue equipment spare parts for Budget Item (BI) projects.
- ✓ Extensive coordination with Project Management Teams (PMT) and Construction Contractors to acquire all essential SPDP information.
- ✓ Accurate entry of equipment spare parts into material management systems for seamless operations and maintenance planning.

PROFESSIONAL ENGINEERING SERVICES



Risk & Reliability Services

- ✓ Risk-Based Inspection (RBI) services: assess and mitigate potential operational hazards.
- ✓ Reliability, Availability, and Maintainability (RAM) studies: enhance equipment performance and operational uptime.
- ✓ Operating Expenses (OPEX) optimization studies to improve cost efficiency and resource utilization.



Electrical System Services

- ✓ Electrical system retrofitting for improved performance and compliance.
- ✓ Services covering Transformers, MV Switchgears, Capacitor Panels, Protection Relays, and related equipment.
- ✓ Cable system installation, maintenance, and upgrades.
- ✓ UPS and Battery Charger systems support and maintenance.
- ✓ Generator and Automatic Transfer Switch (ATS) systems services.
- ✓ Substation engineering, installation, and retrofitting solutions.



Low Current, Instrumentation & MEP Services

- ✓ Low current system retrofitting services for security, communication, and control systems.
- ✓ Structured cabling, fire alarm, CCTV, access control, and building automation.
- ✓ Instrumentation services including calibration of field instruments, Cold Loop Checks, and Hot Loop Checks.
- ✓ Sensors, transmitters, and process control instruments with integration and calibration.
- ✓ Electrical wiring, HVAC, plumbing, and integrated mechanical systems for industrial and commercial projects.



LSTK (Lump-sum Turnkey) Basis Engineering Services

- ✓ Turnkey solutions ensuring seamless integration and operational readiness
- ✓ Comprehensive design, engineering, supply, installation, testing, and commissioning of:
 - Pump systems
 - Sophisticated instrumentation systems
 - Electrical systems
 - Low current-related security systems

LUMP SUM TURNKEY (LSTK) PROJECT SUPPLIES



Comprehensive Project Supply Solutions

- End-to-end supply of equipment, materials, and systems for complete project execution
- Coordination with engineering, procurement, and construction teams for timely delivery

Electrical & Instrumentation Systems

- Transformers, MV switchgears, capacitor panels, protection relays, LV/MV panels
- UPS/Battery Charger systems, generators, ATS systems
- Field instruments, control panels, automation & process control equipment

Mechanical & Process Equipment

- Pumps, compressors, automated penstocks & damper systems
- Expansion joints, accumulators, steam control products, machines, and power tools

Integration & Support Services

- Coordination with on-site teams for delivery, installation, and commissioning
- System integration and operational support
- Spare parts provisioning and maintenance assistance

Turnkey Project Advantages

- Single-point responsibility, reduced project risk
- Optimized timelines through coordinated supply chain & logistics
- Ensures quality, compliance, and operational readiness from day one

MAINTENANCE & TURNAROUND SOLUTIONS

We provide cost-effective, reliable solutions for plant turnarounds and on-site maintenance, ensuring minimal downtime and optimized operational efficiency.

Shutdown & Turnaround Planning

- Operational shutdown planning, scheduling, and on-site support
- Coordination with plant teams to ensure smooth execution and timely completion

Equipment Inspection & Maintenance

- Inspection and maintenance of actuated valves, heat exchangers, tanks, and static equipment
- Annual and periodic inspection, maintenance, and testing of all types of material handling equipment
- Refractory inspection and consultancy services with API 936 certified inspectors

Mechanical & Cleaning Services

- Mechanical cleaning and preparation services to ensure safe and efficient operations

Skilled Workforce Supply

- Provision of qualified manpower, technicians, and engineers for all types of shutdowns
- Offshore inspection support with valid BOSIET/HUET certification

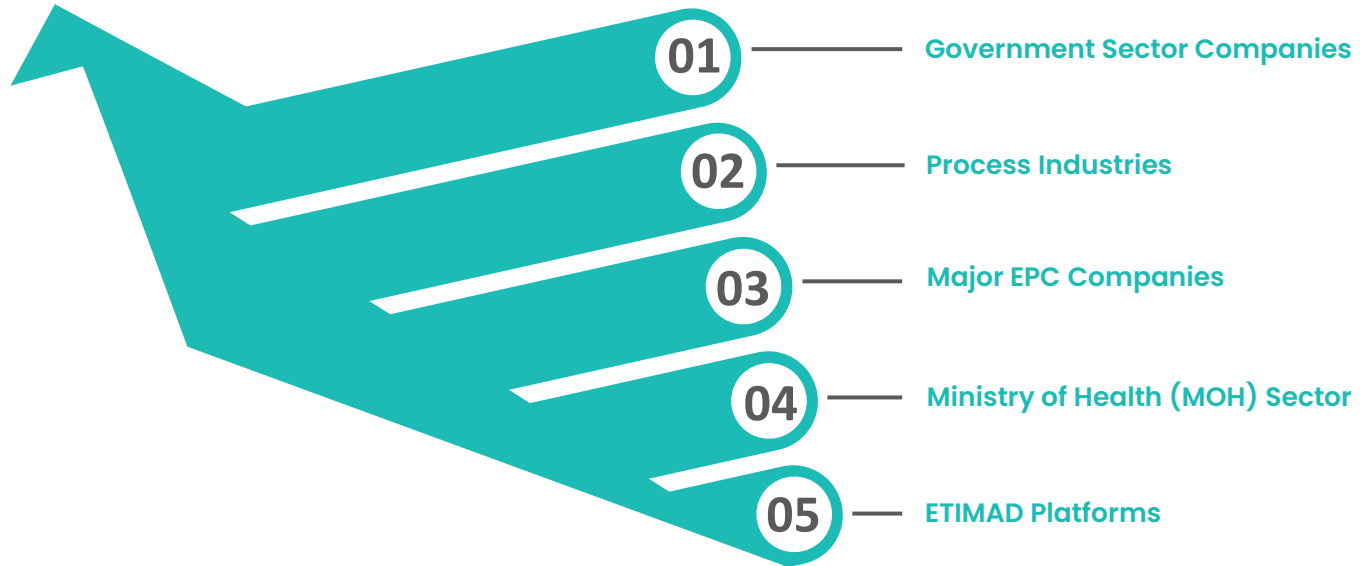
Spare Parts Support

- Supply of all necessary MRO spare parts for repairs on a 24/7 basis, ensuring uninterrupted maintenance activities



WHO WE SERVE

We provide specialized services and solutions to a diverse range of clients, ensuring reliability, efficiency, and operational excellence across sectors.



LED BY EXPERIENCE. DRIVEN BY EXCELLENCE

Although newly established, **AES SQUARE** is built on the extensive expertise and hands-on experience of a team that has worked with some of the region's most reputed organizations. This collective knowledge enables us to implement industry-leading procedures, best practices, and standards in delivering high-quality solutions to our clients.



CONTACT US



www.aess.com.sa



info@aess.com.sa



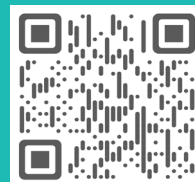
+966 54 765 6591



AES SQUARE

شركة أديانسد إنجينيرينج سولوشنز آند سيرفيسز

ADVANCED ENGINEERING SOLUTIONS & SERVICES



OFFICE LOCATIONS



Main Office

P.O. BOX 514
Al Muhammadiyah
Dammam-31421
Kingdom of Saudi Arabia



Service/ Warehouse

Al Muhammadiyah
Kingdom of Saudi Arabia