

Comprehensive Solutions

Comprehensive Electrical Solutions Across
Every Sector

About This Document

ECS delivers end-to-end electrical engineering solutions — from design and manufacture to installation and maintenance — serving oil & gas, chemical, mining, healthcare, water, buildings, food & beverage, paper & pulp, and automotive industries across the Kingdom of Saudi Arabia.

Standards, Certifications & Regulatory Requirements

Industries Served:

- Oil & Gas
- Mining & Metals
- Water & Wastewater
- Food & Beverage
- Automotive
- Chemical
- Healthcare
- Buildings & Infrastructure
- Paper & Pulp
- Cement & Glass

ECS designs and manufactures electrical solutions that comply with international standards and Saudi regulatory requirements across every industry sector we serve.

Applicable Standards

IEC 61439	LV switchgear and controlgear assemblies
IEC 60947	Low-voltage switchgear and controlgear
IEC 60529	Degrees of protection — IP rating standard
IEC 60079	Explosive atmospheres — ATEX/IECEX equipment
IEC 61000	Electromagnetic compatibility (EMC)
IEC 60204-1	Safety of machinery — electrical equipment
IEC 62305	Protection against lightning
SASO 2650	Saudi Standards — electrical safety
SBC 401	Saudi Building Code — Electrical Systems
SAES-P-100	Saudi Aramco Electrical Systems Standard
NFPA 70 (NEC)	National Electrical Code
NFPA 72/101	Fire alarm and life safety codes
ISO 9001:2015	Quality Management System — ECS certified

Certifications & Approvals

- ATEX / IECEX — Explosive atmospheres (Zones 1, 2, 21, 22)
- CE Marking — European conformity for exported equipment
- SASO type approval — Saudi market compliance
- Saudi Aramco (SAES) approved vendor — oil & gas sectors
- Third-party witness testing (SGS, Bureau Veritas, TÜV)
- Full FAT & SAT documentation packages as standard

Sectors Covered

- Oil & Gas
- Chemical
- Mining & Metals
- Cement & Glass
- Healthcare
- Water & Wastewater
- Buildings
- Food & Beverage
- Paper & Pulp
- Automotive

Quality Assurance Note

ECS maintains a quality management system certified to ISO 9001:2015. All panels are factory acceptance tested before dispatch. Full documentation packages — test reports, material certificates, and as-built drawings — are provided for every project.