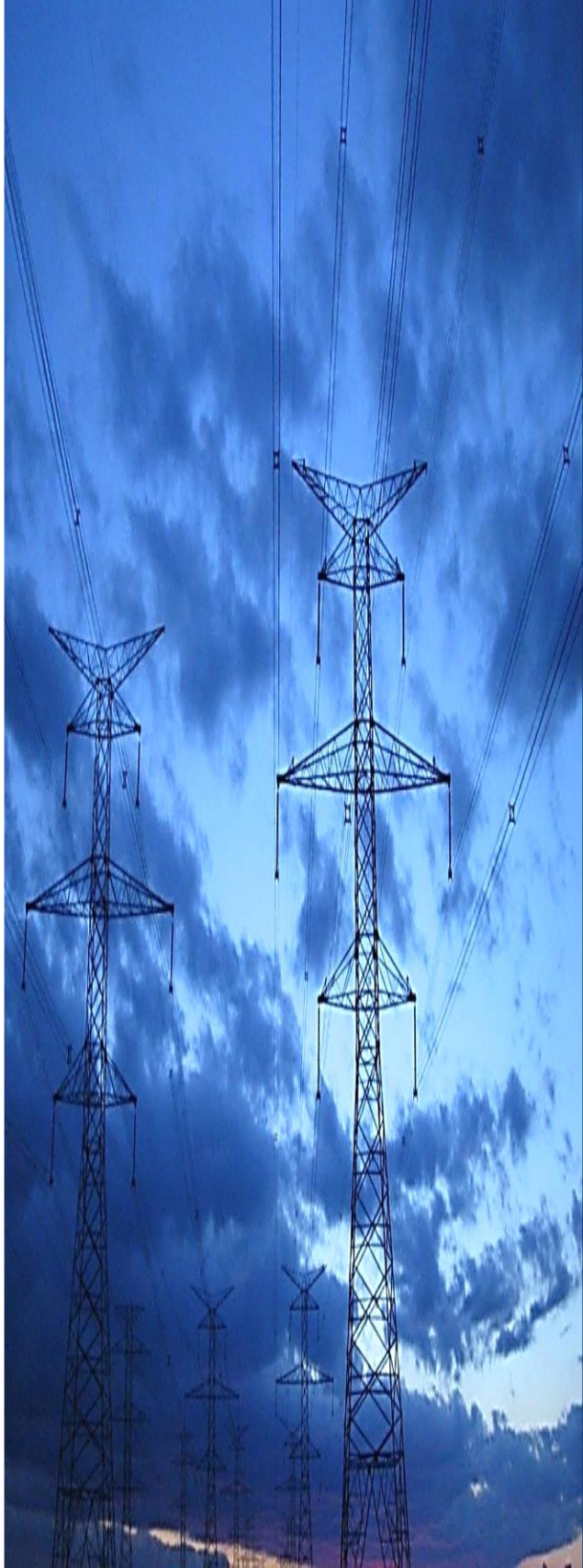




Electrical services Testing and Commissioning

Supply and Energy Technology

- Power Substations
- 380 KV Substations
- 230 KV Substations
- 110 KV Substations
- Industrial Substations
- Medium Voltage S/S.
- Airport substations
- Hospital substations
- Low Voltage Sys.
- DC Systems
- Battery Systems
- Power Transformers
- Protection coordination
- Motors protections
- Generators substations



- Design
- Supplying
- Protection Coordination
- Erection & Installation
- Testing
- Commissioning
- Start-Up
- Maintenance
- Troubleshooting



Design, Testing and commissioning

GIS, Switchgear systems and Transformers

- Testing for power equipment up to 380 KV like Busbar, GIS, circuit breaker, isolators, voltage transformers, current transformers, medium voltage switchgear, contactors, medium voltage power transformer, low voltage switchgear, low voltage circuit breaker (MCB, MCCB) and etc....
- Performing stability test for
 - Bus bar up to 380 KV (low burden and high burden relays).
 - High voltage and medium voltage feeder (cables and OHL).
 - Medium voltage transformers and High voltage transformers (two winding and three winding) up to 500 MVA.



Relays, Protection and Control panels



- Testing for digital protection relays of different brands like Siemens, ABB, Alstom for different purposes like overcurrent distance, differential (transformer, feeder, bus bar), etc...
- Design/modify of control panels, protection panels and complete control/protection schemes.
- Testing for Power Measurement relays, different purpose auxiliary relays and electromechanical relays.
- Complete testing (including function test and scheme check) for power station protection and control panels like LCC, transformers, feeders, busbar, ACDP, DCDP, OLTC, voltage regulation panel, automatic bus transfer system (ABTS), synchronization panels, load shedding panel, transducer panel and etc.... (Up To 380KV).

- Checking tele-protection schemes including performing end to end test for distance relays, direct trip signals and breaker fail relays for high voltage and medium voltage feeder (cables and OHL).
- Testing of Interlocks systems up to 380 KV.
- Performing final closed loop test including annunciator, SCADA, SER, MIMIC and DFR panels.
- Replacement of existing protection panels with all required scheme modifications and testing.
- Clearances of substations punch list points.
- Design and modify of external wires for protection panels and control panels



Maintenance, Troubleshooting & consulting

- Planning and supervision of testing & commissioning of low, medium and high voltage substations Up To 380KV.
- Conduct research into the feasibility, design, erection, execution, startup, operation and maintenance of low/medium/high voltage substations including components, instrumentation and protection/control systems.
- Prepare material cost and timing estimates, reports and design specifications for electrical and electronic systems and equipment.
- Supervise and inspect the installation, modification, testing and operation of electrical systems and equipment.
- Develop maintenance and operating standards for electrical systems and equipment.
- Investigate electrical and electronic failures – troubleshooting.
- Prepare contract documents and evaluate tenders for construction or maintenance.
- Supervise technicians, technologists, programmers, analysts and other engineers.

Erection & Installation Services

SET offer a high standard services like

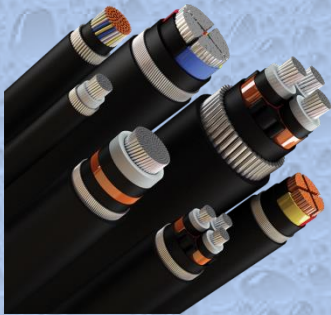
- Retrofit ancient electrical systems and damaged electrical systems.
- Installation of control panels, protection panels and telecommunication panels.
- Installation of low and medium voltage switch gear.
- Installation of low voltage and medium voltage power transformers.
- Installation of RMU (ring main unit).
- Installation of Low voltage and medium voltage ATS panels.
- Pulling control cables, low voltage and medium voltage power cables.



Cables Services

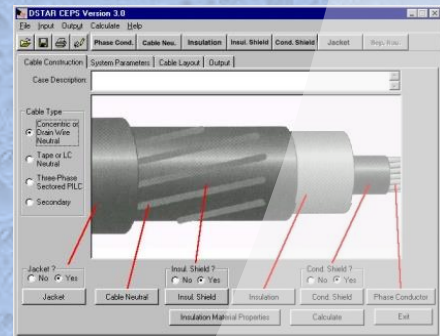
SET provide a highly performing services for

- Low voltage power cables.
- Low voltage control cables.
- Medium voltage cables.
- High voltage cables.
- Extra high voltage cables.
- Telecommunication and fiber optics cables.



Our Services:

- Cable sizing calculation according to the approved (PTS) project technical specification.
- Cable ampacity calculation according to the actual installation and site condition.
- Providing all electrical cable parameters calculation such as resistance , inductance , capacitance , impedance , short circuit current, voltage drops, emergency currents,etc.
- Communicating with cable suppliers to provide required cables for the project according to the latest international standards such as IEC , BS , ICEA ,etc.
- Communicating with SEC & SEC consultants to get the cables and ampacity calculations approval and provide full technical support for the same.
- Attend all cable types inspection in behave of the customer to assure the product quality and compliance to latest SEC and international standards as third party inspection.



Our Vision

To become in the same line with the biggest companies for supplying, installation, testing, commissioning and maintenance of electrical systems up to 380 KV

SET Company has a priority to deliver quality, service, design and installation at a cost-effective price and to provide a personalized and innovative service to fulfill our client's specific requirements at all times. We strive to continually ensure that we maintain our name as an ethical and well respected contractor within the electrical, security, and building industries.

Our current clients are our greatest assets, and we continuously strive to enhance our strong relationships with them. On all our projects, we strive to become partners with our clients through teamwork, support, and friendly service for the long term.

Our Mission

SET Company is committed to providing the highest quality and competitively priced, with services exceeding our customers' expectations in energy field. We will continue to up-gradation in facilities, systems and highly trained technical personnel to provide added-value to our business relationships

SET Company takes pride in providing our customers with top quality workmanship, safe working standards, and personal customer service, using modern technologies.

Our Team

Our engineers have more than 10 years gulf experience ,approved by SEC - KSA and well-known specially in western region and Eastern region.

Our technicians are qualified and highly-trained.

Our Current Clients

Iscosa – Siemens – Dammam

Siemens Vendor no.: 50216097

Siemens Limited – Jeddah & Riyadh

Siemens Vendor no.: 50216097

ABB Saudi Arabia

ABB Vendor no. : 14346

International Medical Center (IMC) - Jeddah

Advanced areas for Contracting and Construction – Jeddah

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