



WELCOME TO SAFETY ELECTRICAL GROUP (SEG)

Journey So Far....

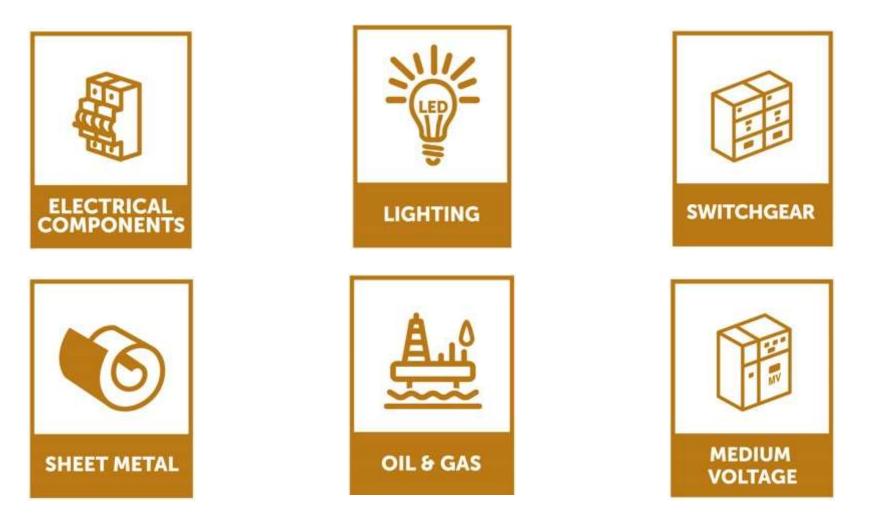


- Established in <u>September 1982</u>.
- Currently have Six (6) Major Business Verticals
 - Electrical Component (Switchgear & Control Products)
 - Lighting & Wiring Accessories
 - Sheet Metal Manufacturing
 - Switchgear Assembling
 - Oil & Gas established in FY-2014
- Newly established Business Division
 - Medium Voltage established in FY-2015
- ASTA certified panel builder
- More than 1000+ Customers across MENA Region.
- Group has over 200 employees.
- Global HQ & Logistic Center located at Techno Park, Dubai
- Currently Eight (8) Retail Locations Three (3) in Dubai, Two (2) in Sharjah and One (1) each in Al Ain, Ras Al-Khaimah (RAK) & Kalba.



Our Business Verticals









SEG Lighting Division







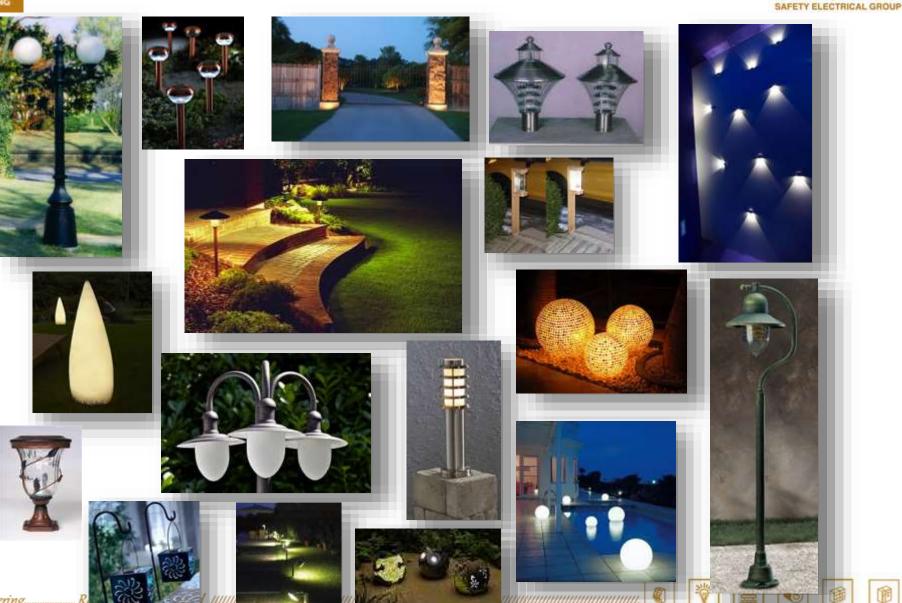
Chandeliers & Wall Fittings







Garden, Gate & Outdoor Lighting SEG



Engineering

مجموعة الأمان الكهربائية



Project Lighting Solutions



Complete Lighting Solutions for all Applications.

- Home
- Offices
- Retail
- Industrial
- Street Lighting
- Commercial
- Industrial Application





LED Lighting Solutions



- Lamps
- LED Retrofit Lamps
- Indoor Modules & Dimmers
- Home, Deco & Living Lights
- Light Management Systems
- Outdoor Luminaries
- Indoor Luminaries
- Specialty Lamps





Engineering.

Wiring Accessories



- Consumer Units
- Access Control Systems
- Switches & Sockets
- Protection Devices
- Weather Proof Units
- Door Video Intercom **Systems**





Industrial & Domestic Fans



- Ceiling Fans
- Pedestal Fans
- Wall Fans
- Exhaust Fans
- Industrial Fans
- Remote Control Fans
- Exhaust Fans







Industrial & Agri Pumps



4",6",8",10",12" Stainless Steel Submersible Pumps



Pressure Booster Pumps



Domestic Pressure Booster Pumps

4",6",8",10" Submersible Motors



Closed Coupled End Suction Monoblock Pumps



Long Coupled End Suction Pumps



Vertical Multistage Centrifugal Pumps



Peripheral Pumps



Openwell Pumps



SHAK



SEG Medium Voltage Division

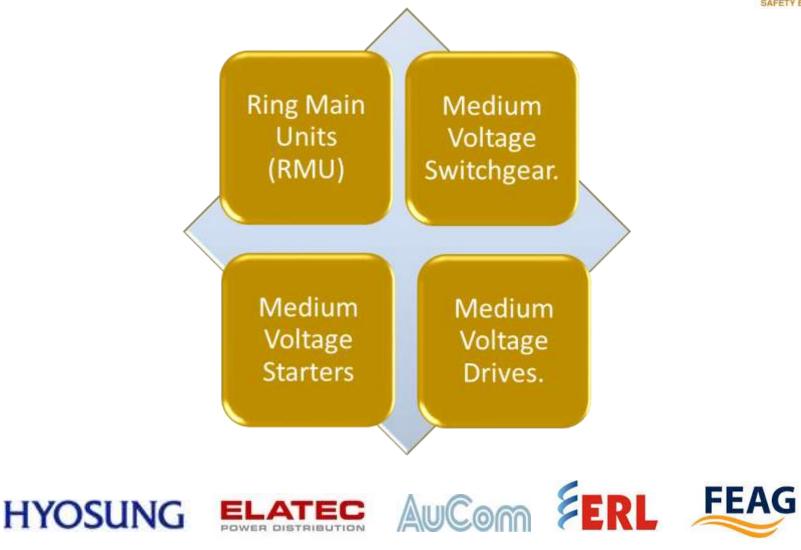






Medium Voltage Offering











Ring Main Unit





- Designed for MV network up to 24 kV, power stations and all the important industries.
- RMU has been successfully Type Tested in institutes around the world, including KEMA laboratory.
- The RMU's are tested at Short circuit current of 21.5kA-3s & 25kA- 1s.
- Microprocessor based LASER welding is used for stainless steel gas tank, which is superior to Robotic/Manual TIG welding.
- This ensures complete leak-tight gas tank for the entire product life of 20 years.





Medium Voltage Switchgear





- Fully Type Tested MV Switchgear up to 36 KV.
- AIS and GIS Type.
- Approved in Utility with project references around Middle East.





HYOSUNG







Medium Voltage Starters





- All starters are rated up to 17.5 KV.
- Fully Type Tested as per IEC Standards.
- The soft starter is the smallest medium voltage soft-starter in its class, with a smaller panel footprint than any other MV soft starter in the market today
- Types of starters offered
- Direct On line Starter (DOL Starters).
- Auto Transformer Starters.
- Solid State Starters.
- Multi motor Starters.





Medium Voltage Drive





- Multi Level, pulse width modulation with phase shift transformer.
- High efficiency and power factor at partial loads.
- Low harmonics- IEEE519 compliance.
- Low dv/dt, hence no motor derating or motor cable length restriction.
- Rated up to IP55.
- Redundancy in Automatic cell bypass.







SEG Switchgear Division







Switchgear Manufacturing Process S

تموعة الأمان الخهربائية SAFETY ELECTRICAL GROU

- Project Estimation
- Project Planning
- System Design & Consultancy
- Value Engineering
- Manufacturing & Assembly
- Component Alignment
- Panel Testing
- Commissioning
- Site Execution & Support
- Annual Maintenance Contract







Switchgear Assembly Services SE

- LV Panels
- PF Correction Systems
- Capacitor Banks
- Busbar Systems
- Generator Panels
- Control Panels
- ATS Panels
- Feeder Pillars
- Synchronization Panels
- PLC Automation Systems
- Motor Control Centers (MCC)







Mertek

ASTA CERTIFICATION



Certificate No. 19217

ASTA Certificate

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SALIENT FEATURES

- As per latest IEC-61439-2 with Natural ventilation technique
- Approved in ADDC & ADWEA
- Assembled in an enclosure manufactured by In-house sheet metal facility.

S/No	Product Reference	Maximum Rating/ Cross Section	Certificate No.	Manufacturer / Country of Origin	
1	4000A with 4000A ACB E6h40, Type PR 121/P ABB MAKE	4000A 3 X 120 X 10	ASTA 19217		
2	2500A with 2500A ACB E3N25, Type PR 121/P ABB MAKE	2500A 2 X 100 X 10	ASTA 19216		
3	1600A with 1600A ACB E2S16, Type PR 121/P ABB MAKE	1600A 2 X 60 X 10	ASTA 19215	SAFETY ELECTRICAL SWITCHGEAR MANUFACTURING LLC /UAE	
4	1250A with 1250A ACB E1N12, Type PR 221/DS ABB MAKE	1250A 2 X 50 X 10	ASTA 19214		
5	800A with 800A MCCB T6N800, Type PR221/DS ABB MAKE	800A 1 X 50 X 10	ASTA 19213		
6	400A with 400A MCCB T5N400, Type PR221/DS ABB MAKE	400A 1 X 30 X10	ASTA 19212		





Success Story – Projects Executed SEG

















مجموعة الأمان الكهربائية











SEG Electrical Components Division







Low Voltage Switchgear Components



- ACBs
- MCCBs
- ELCBs
- MCBs
- Isolators
- RCBOs
- Capacitors
- Automatic Changeover
- Manual Changeover
- Busbar Accessories









Switchgear Control Components



- Contactors
- Overload Relays
- Soft Starters
- Manual Motor Starters
- Protection Devices
- Indication Lamps
- Selector Switches
- Terminals
- Power Supplies







Prefabricated Distribution Boards



- Single Section
- Split Section
- Consumer Units
- Weather Proof Enclosures
- Metal Enclosures (IP-55 Rating)
- PVC/Metal Enclosures (IP-65 Rating)





SEG Sheet Metal Division



Engineering.





Production Facility





Engineering..



Sheet Metal Products



- Multi Row Enclosures
 - Surface and Flush type DB
- Service Enclosures
 - Wall or Floor Mounted
- Extendable Enclosures
 - Floor Mounted
- Form 4 Construction Enclosures
 - Power control Center (PCC)
 - Main Distribution Board (MDB)
 - Motor Control Center (MCC)
- Customized Enclosures



















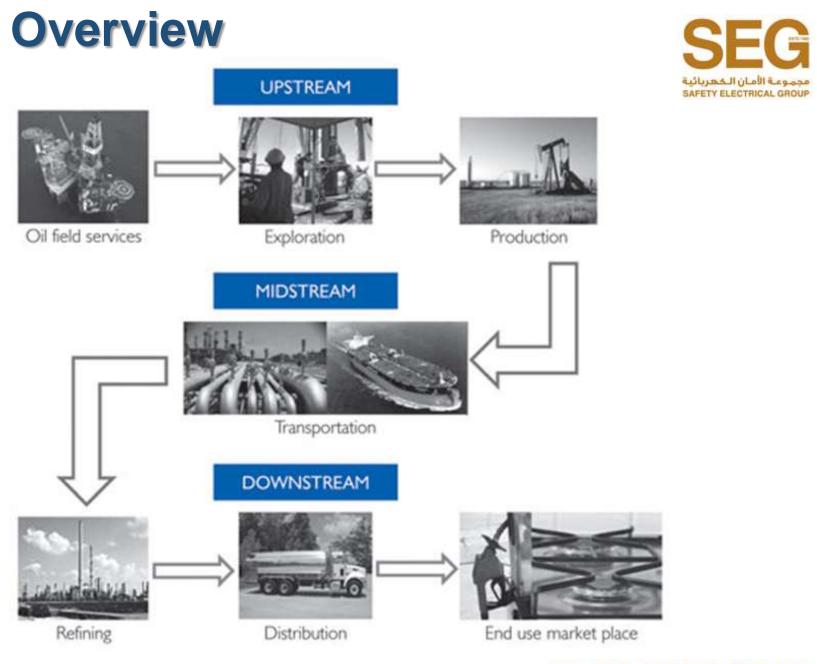


SEG Oil & Gas Division













Dust Zones





ZONE 20 Permanent / Frequent

Area in which an explosive atmosphere in the form of a cloud of combustible dust in air is present continuously, or for long periods, or frequently.



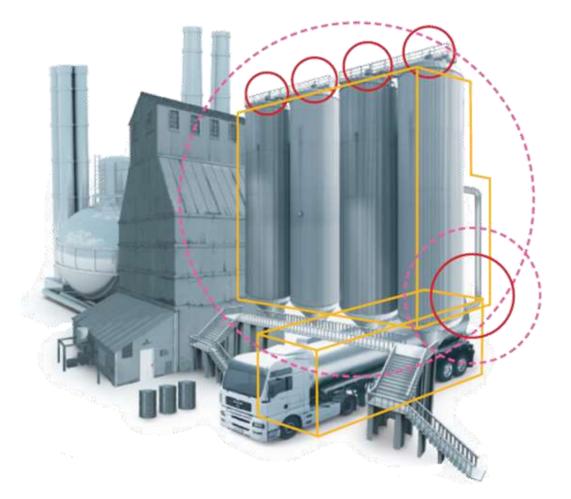
ZONE 21 -----Occasional

Area in which an explosive atmosphere, in the form of a cloud of combustible dust in air is likely to occur, occasionally, in normal operation, ocassionally.



ZONE 22 III III Dust Inegular / Short Duration

Area in which an explosive atmosphere, in the form of a cloud of combustible dust in air is not likely to occur in normal operation but, if it does occur, will persist for a short period only.











FOR GASES & VAPOURS



ZONE 0 Permanent / Frequent

Place in which an explosive atmosphere consisting of a mixture with air of flammable substances in the form of gas, vapour or mist is present continuously or for long periods, or frequently.



ZONE 1 Coassional

Site where an atmosphere consisting of a mixture of air and inflammable substances in the form of gas, vapour or mist is likely to arise occasionally during normal operation.



ZONE 2 Gas Irregular / Short Duration Place in which an explosive

atmosphere consisting of a mixture with air of flammable substances in the form of gas, vapour or mist is not likely to occur in normal operation but, if it does occur, will persist for a short period only.

b





Product Portfolio





Thomas&Betts







- Explosion Proof Lighting and Conduits.
- Customized Explosion Proof Junction Boxes & Control Panels.
- Hydraulic Torque Wrenches and Bolting Solutions.
- Clean Break Couplings.









 Complete range of Explosion Proof Lighting including Tubular Fittings, Floodlights, Beacon & Warning Lights and LED Light Fittings for hazardous and safe area environments.













- Explosion Proof Enclosures, Junction Boxes and Control Panels customizable to application and client requirements.
- Available in Stainless Steel, Aluminum and GRP.













 Conduits and Fittings meeting the highest industry standards and specifications for use in hazardous areas.

















- Hydraulic Torque Wrenches for any bolting application and industry.
- Portable and Lightweight solution suitable for use in any condition including onshore & offshore rigs and refineries.









- Spill Prevention Couplings for safe, efficient and environmentally friendly distribution and transfer solution.
- Lightweight and sleek ergonomic design capable of withstanding high working pressures up to 25 Bar (363 psi).





Our Partners & Principals



ABB	L1 legrand	:hager	Thomas®Betts	OSRAM	AuCom
KOPEX	ØTS	<i>Hazlux</i> °	SHAND	Polimann	
Seelux	DORMAN SMITH	SHAKTI PUMPING LIFE		the pipe coupling	\bigcirc
HYOSUNG	-ELECTRONICON'	ELATEC POWER DISTRIBUTION		FERL	FEAG





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Thank You

