

# SEG

ESTD 1982

SAFETY ELECTRICAL GROUP

مجموعة السلامة الكهربائية



ELECTRICAL  
COMPONENTS



LIGHTING



OIL & GAS



SHEET METAL



SWITCHGEAR



MEDIUM  
VOLTAGE





*WELCOME TO SAFETY ELECTRICAL GROUP (SEG)*

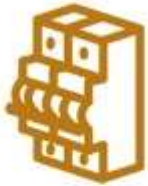
# Journey So Far....

- Established in September 1982.
- 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



**ELECTRICAL  
COMPONENTS**



**LIGHTING**



**SWITCHGEAR**



**SHEET METAL**



**OIL & GAS**



**MEDIUM  
VOLTAGE**

# SEG Lighting Division



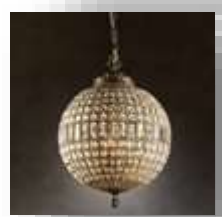


LIGHTING

# Chandeliers & Wall Fittings

# SEG

مجموعة الأمان الكهربائية  
SAFETY ELECTRICAL GROUP



Engineering..... Relationships & Beyond







# Garden, Gate & Outdoor Lighting

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SAFETY ELECTRICAL GROUP





# 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





# 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



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



Vertical Multistage Centrifugal Pumps



Pressure Booster Pumps



Closed Coupled End Suction Monoblock Pumps



Peripheral Pumps



Domestic Pressure Booster Pumps



Long Coupled End Suction Pumps



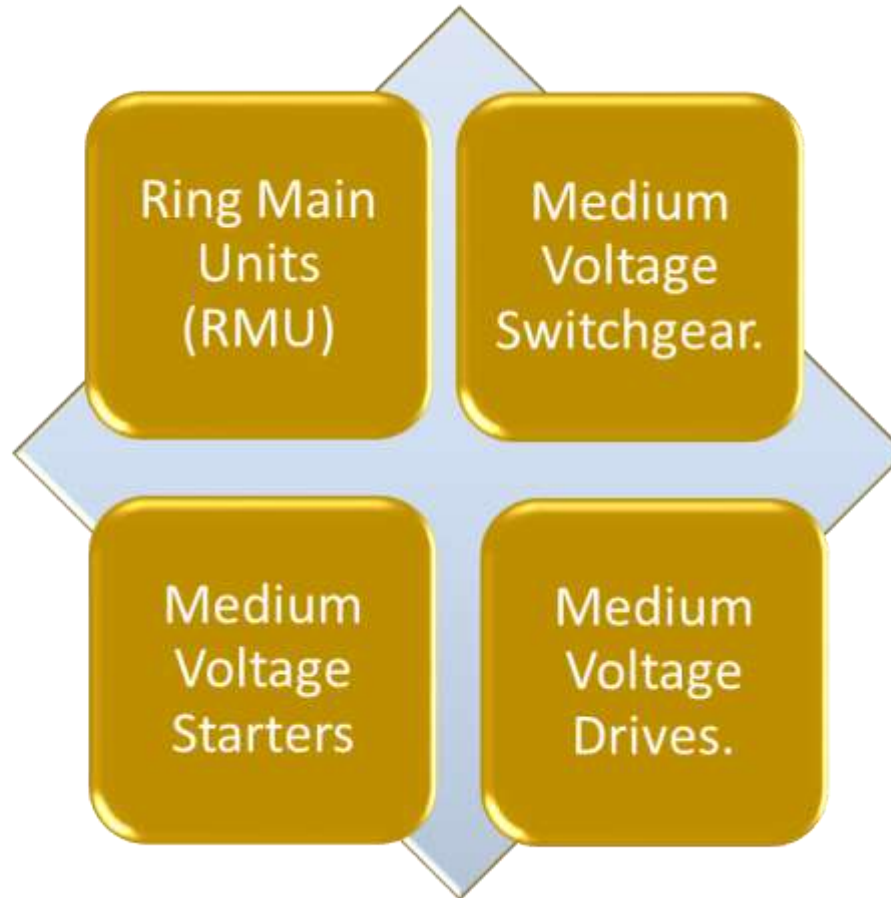
Openwell Pumps



# SEG Medium Voltage Division



# Medium Voltage Offering



**HYOSUNG**

**ELATEC**  
POWER DISTRIBUTION

**AuCom**

**ERL**

**FEAG**





# 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.



**FEAG**

**ELATEC**  
POWER DISTRIBUTION

**HYOSUNG**

# Medium Voltage Starters



**AuCom**  
THE SOFT START SPECIALISTS

- 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.

**AuCom**

# SEG Switchgear Division





SWITCHGEAR

# Switchgear Manufacturing Process

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



Certified Panel Builder

Engineering... Relationships & Beyond







SWITCHGEAR

# Switchgear Assembly Services

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- 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)



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SWITCHGEAR

# ASTA CERTIFICATION

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SAFETY ELECTRICAL GROUP



## 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	SAFETY ELECTRICAL SWITCHGEAR MANUFACTURING LLC /UAE
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	
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 X 10	ASTA 19212	





# Success Story – Projects Executed



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# 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

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



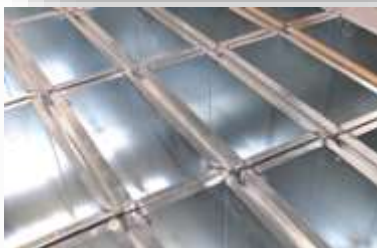
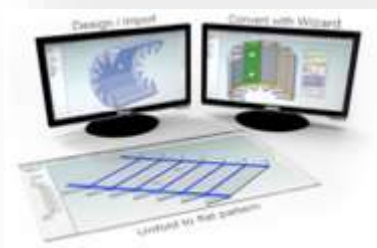
# SEG Sheet Metal Division







# Production Facility





# 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**



Certified Panel Builder



# SEG Oil & Gas Division

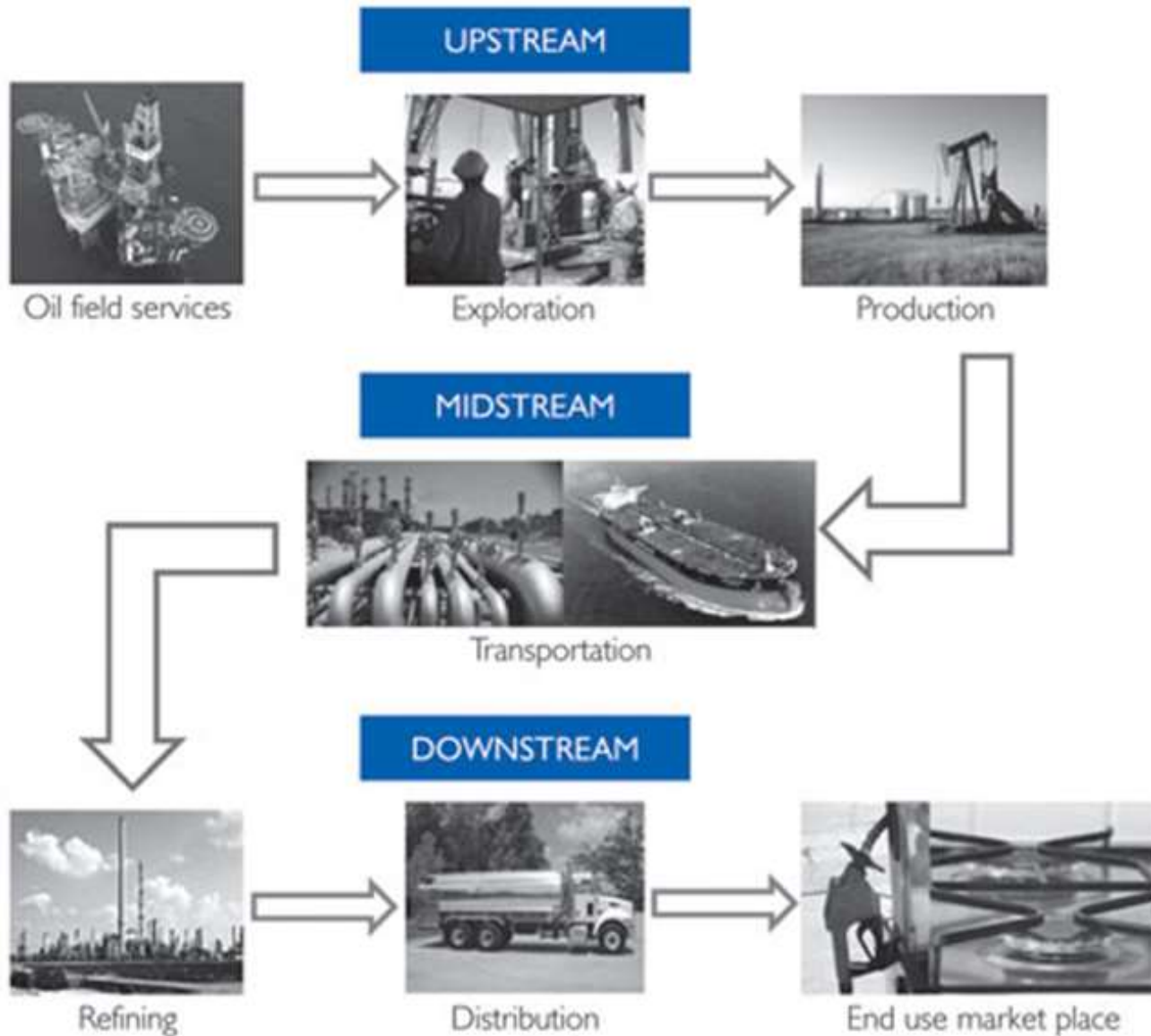




OIL & GAS

# Overview

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مجموعة الأمان الكهربائية  
SAFETY ELECTRICAL GROUP







OIL & GAS

# Dust Zones

**ZONE 20**

## 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**

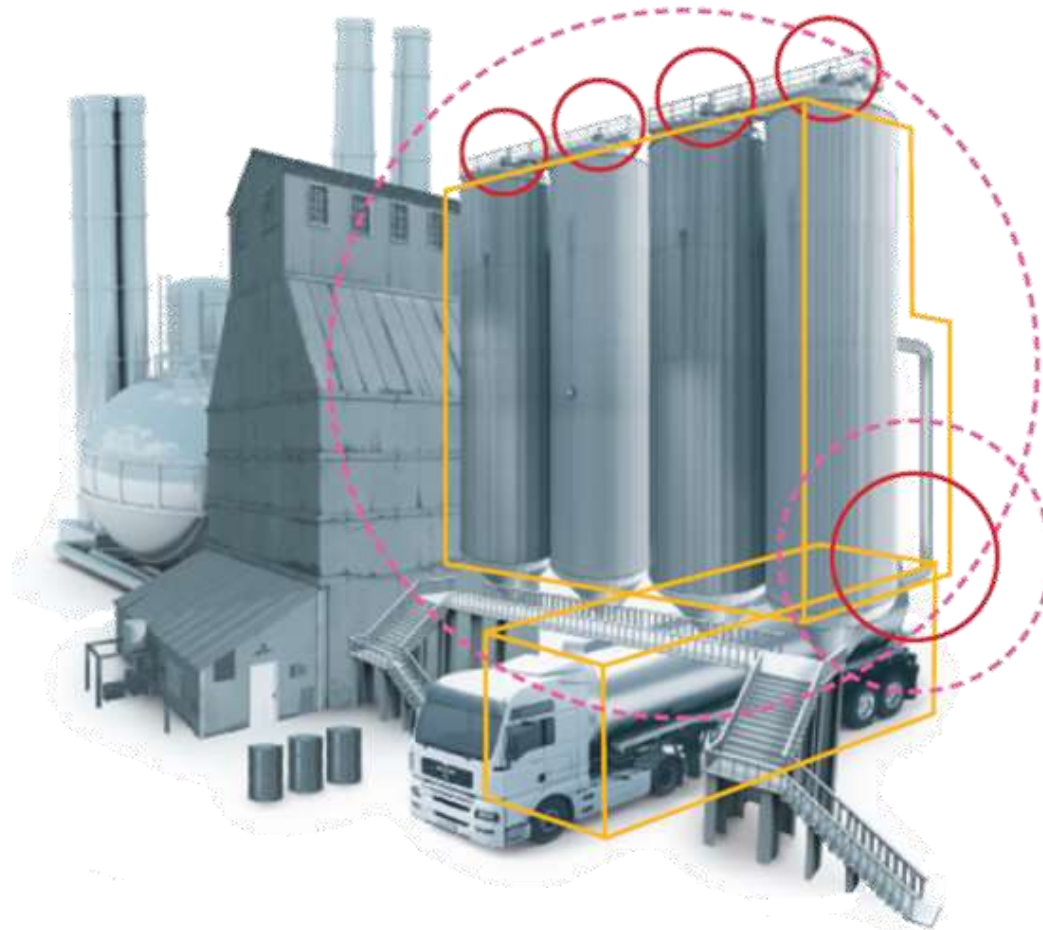
## ZONE 21 Occasional

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, occasionally.

**ZONE 22**

## ZONE 22 Dust Irregular / 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.



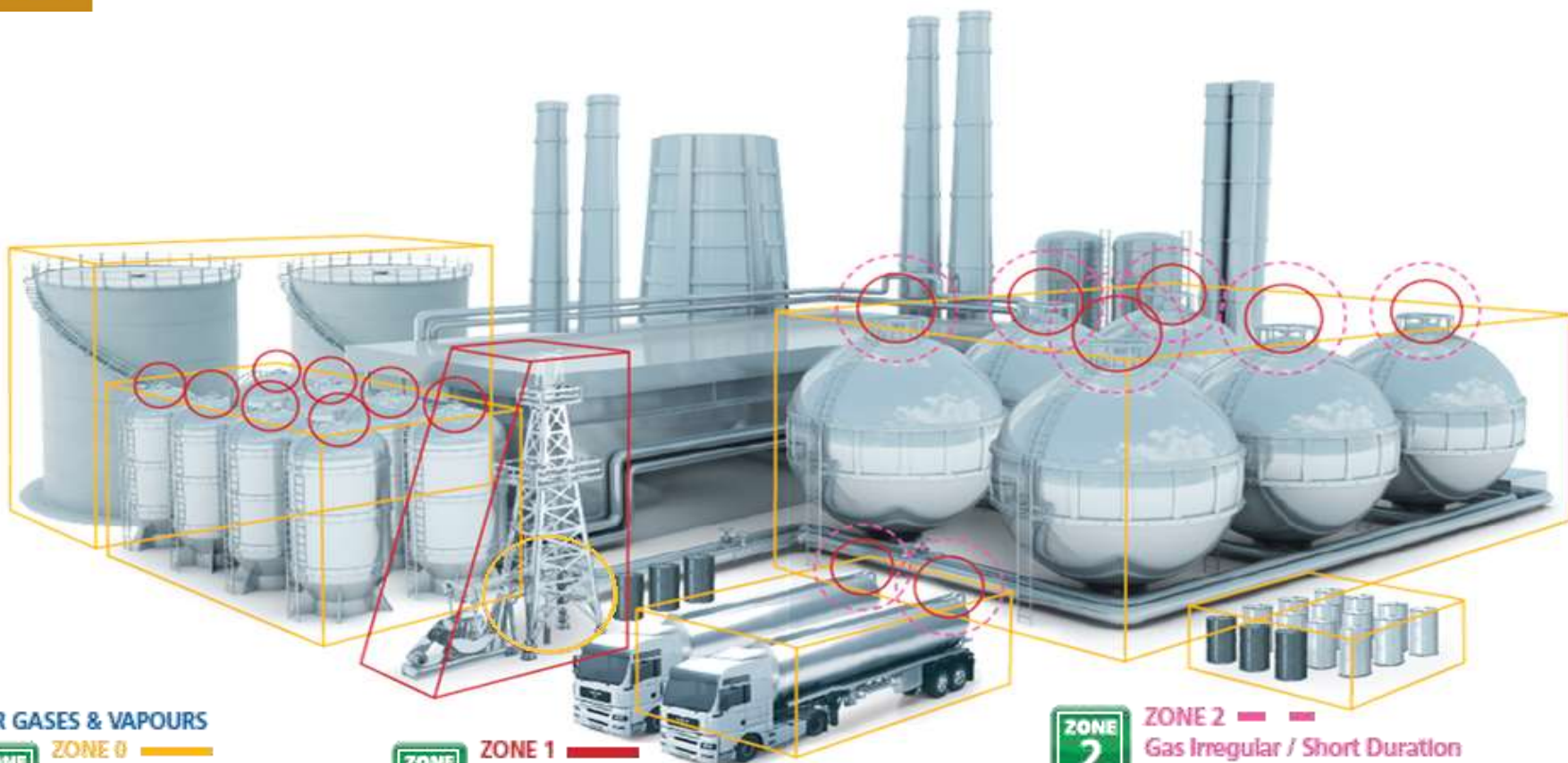
# Gas Zones



OIL & GAS

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## 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** **Occasional**  
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.



# Product Portfolio



OIL & GAS

**ABB**

**ETS**

**KOPEX-Ex**

**Thomas & Betts**

**Hazlux®**

**TorsionX**  
EXTREME BOLTING FORCE

**SHAND**

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







OIL & GAS



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SAFETY ELECTRICAL GROUP

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



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OIL & GAS



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



Engineering..... Relationships & Beyond





OIL & GAS



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



Engineering..... Relationships & Beyond





OIL & GAS



- 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.





OIL & GAS

SHAND

Clear/BREAK

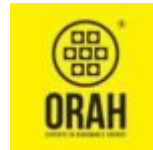
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مجموعة الأمان الكهربائية  
SAFETY ELECTRICAL GROUP

- 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





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# Thank You

