



- Rig Safe Generators
- Zone 2 / Class 1, Div 2 Hazardous Area Generators
- Project Specific Generators

Simmonds Equipment offers a turnkey service for Power Generation Equipment including:

- Design
- Project management
- Fabrication
- Integration to client systems
- Full automation
- Factory acceptance testing
- Third party approval
- Site installation
- Commissioning
- Gas – diesel – bi fuel product ranges
- Service support



### Rig Safe Generators

Rig Safe Options:  
 Exhaust spark arrestor  
 Engine air intake shut off valve  
 Double skinned and braided fuel pipes  
 Fire and gas detection systems  
 Fire extinguishing systems  
 Increased IP protection levels  
 Extended service intervals  
 Third party approval for offshore use.  
 Platform remote emergency shutdown system  
 "Rig safe" is for operation in a safe area only.

# Power Generation Equipment Hazardous Area Generators

SOCIAL NETWORKING



## Headquarters

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### Zone 2 Hazardous Area Generators

Simmonds Equipment will undertake an assessment of your Hazardous Area requirement; we can then advise which of our product ranges will be correct for the provision of power suitable for use in a Zone 2 / Class 1, Div 2 Hazardous Area. Referencing the appropriate legislative and regulatory standards we offer products which meet the requirements of ATEX Directive 94/9/EC, NEC & CSA for equipment and protective systems intended for use in potentially explosive atmospheres. Generators designed specifically for operation within a Zone 2 / Class 1, Div 2 Hazardous area, providing safe shutdown and removal of all ignition sources, in the event of a platform confirmed combustible gas release including but not limited to:

- Hazardous area - Engine flame protection package
- Hazardous area - Air intake shut off valve, including integral flame arrestor.
- Hazardous area - Exhaust outlet spark arrestor
- Hazardous area exhaust flame arrestor
- Zone 2 / Class 1, Div 2 - Exhaust spark arrestor
- Zone 2 / Class 1, Div 2 - Ex n alternator
- Zone 2 / Class 1, Div 2 - Ex d control panel
- Zone 2 / Class 1, Div 2 - Ex e hard wire or socket terminal outlets
- Start system options of
  - Spring inertia
  - Electric
  - Hydraulic
  - Pneumatic
- Zone 2 / Class 1, Div 2 - Ex p – pressurization, fire and gas detection control

### Project Specific Generators

The offshore operator's environment requires a varied range and standard of power generation solutions. Simmonds Equipment offers Project Specific power generation packages designed for client specific applications. Designed for operation in a Safe or Hazardous area onshore, offshore or petrochemical environment.

- Generators Designed to consider:
- Cooling medium - Air or water cooled engine.
  - Duty cycle - Standby or continuous
  - Location - Hazardous or safe area
  - Ingress protection - IP 23 to IP 56
  - Control function - Synchronizing, load sharing, local or remote
  - Application - Emergency / standby / black start / motor starting
  - Service requirements - 500 – 2000 hour service intervals
  - Lifespan - Mild steel or stainless steel enclosures
  - Noise attenuation levels - Standard 83dBA @ 1 m, specific to 70 dBA @ 1 m
  - Fire Rating - A0, A60
  - Detection systems - Heat, gas, smoke, IR, UV
  - Fire Extinguishing - CO2, Inergen, water mist
  - Starting method - Pneumatic, hydraulic, electric, kinetic
  - Certification - Lloyds, ABS, DNV

