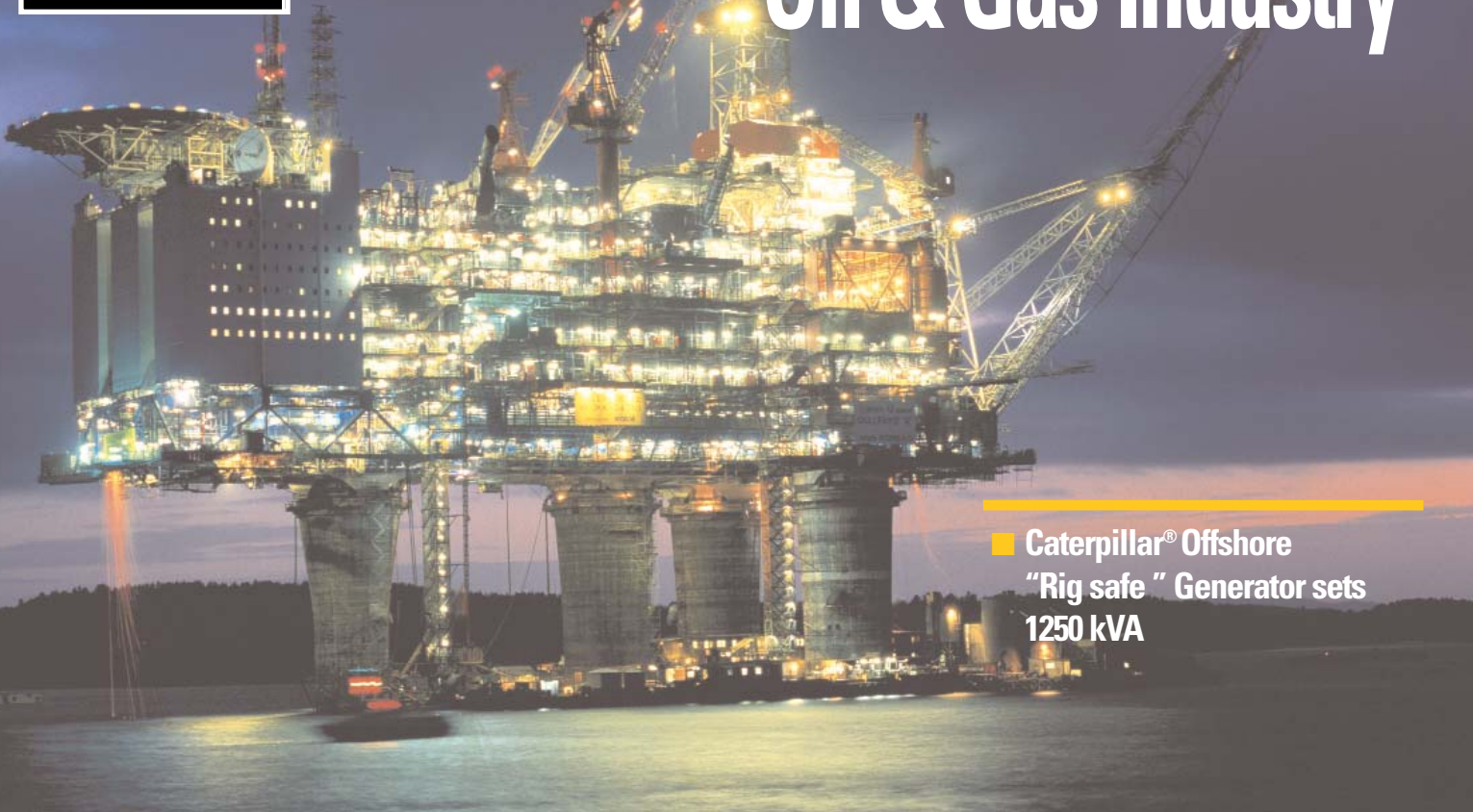




Power Rental for the Oil & Gas Industry



■ Caterpillar® Offshore
"Rig safe" Generator sets
1250 kVA

Off-shore and On-shore, Our Equipment Runs to the Highest Standards.

Extensive, Modern Fleet



Safety: When you're offshore, the quality and specification of your equipment used is critical to safety and performance. At Caterpillar® we understand this requirement and build the power modules according to DNV Z -015.

Reliability: The worldwide Cat® Dealer Network provides support around the world so no matter where you are in the world, you're covered.

Production: With Energyst Cat® Rental Power solutions your production is up and running without delay.

Emissions: The ACERT™ technology employed by the offshore Caterpillar® engine line remains a systems solution, refined to meet the latest emission regulations.

Control System: A microprocessor-based generator system control and management package designed for the most demanding power generation applications, including synchronization, comprehensive system protection-engine, bus, and generator, advanced network communication, built in system diagnostics.
Regulatory Compliance: Zone 2, group IIC.

Turnkey Solutions



24/7 Service & Support



Energyst





Energyst Cat® Rental Power is built on the latest offshore requirements to meet your demands to work with safe equipment with a reliable partner to secure your production.

Energyst Diesel driven generators are manufactured by CATERPILLAR and are housed in a custom designed offshore rental package built in a standard 20 Ft ISO container. The equipment has been designed to provide flexibility for all modes of end-user operation. The equipment packages are DNV 2.7.1 certified via Lloyds class society and are classified NORSOK Z-015 for use in Non-hazardous zone.

XQ Offshore Power Modules are provided with fire & gas detection and fire extinguishing system, air shutoff, spark arrestor, emergency stop, sea mist filter.



XQE Power Module



ACERT™ Technology

EMISSIONS

The Energyst Offshore Power Modules use the CAT C32 engines with ACERT® Technology. Using highly-advanced combustion technology to optimize performance, these revolutionary engines meet today's most stringent emissions reduction standard. ACERT™ combines proven systems with innovative new technologies to precisely shape the combustion process.

TECHNICAL INFORMATION

Model*	kVA (kW) ¹ Prime		kVA (kW) ¹ Standby		Dimensions (mm)			Weight ² (kg)		Fuel Tank	Fuel Consumption ³ (ltr./hr.)	Sound Level ⁴	
	50 Hz	60 Hz	50 Hz	60 Hz	Length	Width	Height	Without Fuel	With Fuel	Ltr.	50 Hz	LWA	dBA @ 7 m
XQ1250E	1000 (800)	1137 (910)	1100 (880)	1250 (1000)	6058	2438	259	20000	20900	1090	210	102	75

1. Performance data quoted in accordance with ISO 8528-1. This table is intended only as a guide. Equipment performance may be affected by local ambient conditions and altitude.

2. Weight includes oil and coolant.

3. Fuel consumption measured in ltr./hr. at 100% load at 1500 rpm at 50 Hz.

4. Sound levels given at 100% full load 50 Hz

Voltage: All models at 50 Hz 400/230 V; at 60 Hz 440/254 V.

*The XQE Model Range is exclusive to Energyst Cat® Rental Power.

Details are given for guidance only. Exact equipment supplied may vary according to geographical location and availability.

NORSOK Z-015 CLASSIFICATION

Energyst Cat Rental Power sets are classified Norsok Z-015. The Power Module meets the following Z-015 references for temporary equipment form G: Container for diesel engines placed in non hazardous area.

	1. MECHANICAL	Z-015 reference
1.1	Signs tagging/labeling	4.6
1.2	Annual control (lifting equipment, certification)	4.4.1
1.3	Mechanical condition (lifting eyes/points,structure)	4.4.1
1.6	Self-closing doors	4.4.1
1.8	Mechanical ventilation	4.4.7
1.9	Noise	4.4.8
	2. FIRE, GAS AND SAFETY	
2.1	Gas detectors in air inlet	4.4.3
2.2	Fire/smoke detector	4.4.2
2.4	Portable fire extinguisher	4.4.2
2.6	Alarm and shutdown if loss of pressurization/ventilation	4.4.7
2.7	Room fire extinguishing system	4.4.2
	3. ELECTRICAL	
3.1	Cables, nipples, equipment etc	4.4.6.1
3.2	Insulation resistance – megging	4.8.1
3.3	Earthing (NB bonding of structure)	4.4.6.3
3.4	All external installation Ex-proof	4.4.6.2
3.6	Emergency lighting	4.4.6.2
	4. HOOK-UP TO INSTALLATION	
4.1	Power supply (voltage, freq.,plugs)	4.7
4.4	Alarm signal to control room with plug	4.7
4.5	Shutdown (ESD) from CCR (for battery system etc)	4.4.3
	5. EQUIPMENT	
5.1	Manual emergency stop	4.4.8
5.2	Manual shutdown of diesel supply	4.3.1
5.3	Drip trays	4.3.1
5.4	“Rig saver” in combustion air inlet	4.3.1
5.5	Shutdown if loss of oil pressure	4.3.1
5.6	Shutdown if high cooling water temperature	4.3.1
5.7	Shutdown if overspeed	4.3.1
5.9	Gas detector in combustion air inlet	4.3.1
5.11	Spark arrester in exhaust pipe	4.3.1
	6. DOCUMENTATION	
6.1	Lifting certificate	4.8
6.2	Other technical documentation (drawings, data)	4.8
6.3	Certificate for equipment with special requirements	4.8
6.4	Maintenance program	4.8
6.5	Maintenance journal	4.8
6.6	User manual	4.8

FEATURES

PRODUCT QUALITY

- Full genset and customer load protection
- Quick cable connection
- Easy to clean internal fuel tank
- Remote fuel tank capability
- Full synchronization
- Triple Racor fuel filter- online fuel filtration servicing
- Remote communication and control
- Auto start control panel capability to operate in:
 - unattended single unit island mode
 - multiple unit island mode
 - standby mode
 - manual control or fully automatic control selectable on control panel
 - load sharing
- Fire and Gas Detection & fire Supression system for Z-015 Safe Zone
- Integrated Fire and Gas detection control panel
- Co2 Fire Supression system (Ref: NFPA 12)

MEET LEGAL REQUIREMENTS

- All sets exceed EC noise and environmental legislation
- 110% fuel and oil retention within container
- Double skinned fuel tank



ACCESSORIES

- Cables for connection
- Low voltage transformers for step – up to 600V – 690 V
- Automatic fuel supply

SUPPORT SERVICES (OPTIONAL)

- Transport to and from customer site/location
- On-site installation, commissioning and decommissioning
- 24/7 support service

ADDITIONAL PRODUCT LINE (FOR ON SHORE USE ONLY)

- Gensets XQE range 20 kVA to 2000 kVA
- Twinpacks (dual power generators)
- Load banks (resistive and reactive)
- Transformers
- Fuel tanks
- Power distribution accessories
- Temperature control:
 - Air handlers
 - Air-to-air heaters
 - Air-to-air coolers
 - Chillers
 - Heat pumps
 - Hot water systems
 - Fancoils
 - Air distribution accessories

ENERGYST CAT® RENTAL POWER

Energyst Cat® Rental Power is a provider of complete temperature control and power generation rental solutions for the Industry, Utilities, Events, Telecommunications, Shipping, Oil & Gas and Construction market segments. We provide expertise-based turnkey solutions designed for short and medium term requirements that companies can depend on to ensure smooth, efficient operations. We offer a modern fleet of integrated equipment capable of easy, rapid deployment throughout all of Europe, and in collaboration with the Caterpillar® Dealer Network, provide coverage around the world.

FOR MORE INFORMATION

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