Increase return on investment on your production wells. Low operating cost and proven reliability have made Cat® engines the preferred choice in the oilfield. Whatever your application, we have options, with the widest range of oilfield power generations products. And it’s all covered by the global Cat dealer network.

- From 270 to 14 590 ekW, your equipment is capable of running on liquid fuels, gaseous fuels, or a combination of both.
- You have the flexibility to choose the power you need with the fuel you have available.
- These products come with the industry-leading one-year warranty on parts for all factory-packaged components.

MORE FUEL CHOICES. LESS COST.

**Power Choices**

**Pump Power**
Prime power for production operations such as down-hole pumps, pump jacks, electric-driven gas lift pumps, central processing facilities

**Camp Power**
Accommodation and office facilities on a drilling or production site

**Standby Power**
Standby, emergency, and essential service applications

**Field Electrification**
Large generator sets for centralized power generation in oilfield operations

**Auxiliary Power**
Supports miscellaneous oil and gas production operations
OILFIELD GAS GENERATOR SETS

- Field gas
- Propane
- CNG
- LNG
- Pipeline natural gas

OILFIELD DUAL-FUEL GENERATOR SETS

A combination of multiple gaseous fuels and liquid fuels

OILFIELD LIQUID FUEL GENERATOR SETS

- Diesel
- Heavy fuel oil
- Crude oil
PERFORMANCE

**Field-proven standard generator sets** use high quality fuels including diesel, pipeline natural gas, CNG, or LNG. Additional components may be necessary to ensure the product will withstand harsh operational and environmental conditions in the oilfield. Your Cat dealer will work with you to customize solutions with generators, radiators, or enclosures for your specific operation.

**Oilfield generator sets** are heavy-duty configurations made specifically for high reliability and durability in oil and gas production sites:
- Designed to operate in harsh conditions.
- Oversized generators for high-demand motor starting.
- Cooling systems withstand high temperature and high dust conditions.
- Heavy-duty construction easily handles constant loading, transportation, and unloading operations.
- Flexible fuel systems:
  - Gaseous fueled engines feature low compression ratio, allowing the use of field gas without loss of power.
  - Dual-fuel engines operate on a combination of multiple liquid and gaseous fuels.

---

**CG170**

**Fuel Flexibility with Low Operating Cost**

The CG170 has the versatility to let you run on abundant, low-cost field gas. It uses soot-free combustion with chamber plugs for extended maintenance intervals up to 4,000 hours. Newly optimized blow-by gas recirculation reduces turbocharger maintenance intervals and boosts efficiency.

- The lubrication system consumes up to 1,900 liters (500 gallons) less lubricating oil each year than the competition, giving you better return on investment.
- Power generation solutions are tailored for oilfield applications to give you the right product for your unique needs.

---

**Oilfield Gas Generator Sets**

<table>
<thead>
<tr>
<th>Cat Methane Number</th>
<th>Low compression ratio</th>
<th>High compression ratio</th>
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</thead>
<tbody>
<tr>
<td>Natural Gas LNG CNG</td>
<td>100</td>
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<tr>
<td>Treated Field Gas</td>
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<td>Propane</td>
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**CG170 Land Production Generator Set**

<table>
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<tr>
<th></th>
<th>CG170-16</th>
<th>CG170-20</th>
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<tbody>
<tr>
<td>Bore (mm/in)</td>
<td>170 (6.7)</td>
<td>195 (7.7)</td>
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<tr>
<td>Stroke (mm/in)</td>
<td></td>
<td></td>
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<tr>
<td>Displacement (L/in³)</td>
<td>70.8 (4320)</td>
<td>88.5 (5401)</td>
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<tr>
<td>Power (ekW)</td>
<td>1560</td>
<td>2000</td>
</tr>
<tr>
<td>Frequency (Hz)</td>
<td>50 / 60</td>
<td></td>
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<tr>
<td>Speed (rpm)</td>
<td>1500</td>
<td></td>
</tr>
<tr>
<td>Efficiency (electrical)</td>
<td>43.3%</td>
<td>43.7%</td>
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</table>
G3306B and CG137

- Designed to run on low- to no-cost well site natural gas
- Operate on wellhead gas to pipeline quality natural gas
- Optimized for the harsh oilfield environment and simplified loading/unloading

- Configurations available with air-fuel ratio control and three-way catalyst or for non-regulated areas
- Parallel up to eight units with EMCP 4.4 controls

Note:
Image may not reflect actual configuration. Radiator, base, generator, and exhaust configuration may vary depending on application.

* U.S. applications only
**Oilfield Dual-Fuel Generator Sets**

**Cat 3500 generator sets with Dynamic Gas Blending** ensure low owning and operating cost by replacing diesel with low-cost gas. Specifically designed for the oilfield, they give you the highest performance, optimum dual-fuel operation, low emissions, and simplified operator interface.

- Maintains diesel performance while automatically maximizing gas substitution up to 70%.
- Keeps component life and service intervals of diesel engine.
- Automatically adjusts to incoming changes in gas quality and pressure so operators can use gas fuels from high-quality pipeline natural gas to low-quality field gas.

**CM Dual-Fuel Generator Sets**

Bring fuel flexibility to your production operation by combining liquid and gaseous fuels in one product.

- Combine diesel, LFO, and crude oil fuels with natural gas down to MN 50.
- Operate in dual-fuel mode combining 99% gas and 1% diesel when gas fuel is available – switch to diesel mode operation when it’s not.

**Oilfield Liquid Fuel Generator Sets**

Caterpillar offers the widest range of liquid fueled generator sets suitable for oilfield applications; from 180 e kW to 14590 e kW.

- Applications from standalone generator sets for wellhead pumps to large multi-unit oilfield power plants for field electrification.
- Liquid fuel options include diesel fuel, heavy fuel oil, and crude oil.

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*Images of generator sets are not provided as described in the text.*
<table>
<thead>
<tr>
<th>Family</th>
<th>kW</th>
<th>Duty</th>
<th>Generator Set Type</th>
<th>Liquid Fuel</th>
<th>Gaseous Fuel</th>
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<td></td>
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<td></td>
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<td>50 Hz</td>
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<td>S, P</td>
<td>3000</td>
<td>1000</td>
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<tr>
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<td>P</td>
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<td>1500</td>
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<tr>
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<td>150</td>
<td>1100</td>
<td>2200</td>
<td>Diesel</td>
<td>No. 2 diesel fuel</td>
</tr>
</tbody>
</table>

S – Standby; output available with varying load for the duration of the interruption of the normal source of power
P – Prime rating for power generation in oil and gas applications; output available with varying load for an unlimited time
C – Continuous rating, 100% of engine operating hours at 100% of rated power
Diesel – No. 2 diesel fuel
HFO – Heavy fuel oil
Natural gas – Pipeline quality natural gas, MN>75
CNG – Compressed natural gas, MN>75
LNG – Liquefied natural gas, MN>75
Field gas – Field and associated gas with varying gas quality, generally > MN 30 for rating availability
Reference LECW2462 for additional details on available ratings.
* Operation of 3500 generator sets with crude oil require a “Special Rating Request”; contact your local dealer for further information.
One call, many answers

Reduce downtime with a single point of contact for all your purchasing, maintenance, and repair. Caterpillar is your one source for power with choices to fit your needs. Your dealer is ready to work with you to design solutions for your specific application.

And our worldwide industry specialists deliver technical support, parts, and service support wherever you are, whenever you need them. We’re built to give you options. To learn more, call your local Cat dealer or visit www.catoilandgasinfo.com.

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