



## News Release

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FOR IMMEDIATE RELEASE

### **Caterpillar's 16CM43 Engine Delivers 14.4 MW of Power with High Efficiency and Low Emissions**

(*PEORIA, Ill.*) – Caterpillar Power Generation Systems (CPGS) offers the 16CM43, the most efficient 16-cylinder engine in its class. Generating up to 14.4 MW of power, the 16CM43 features an advanced design that results in a long operating life, simplified maintenance, high efficiency and low emissions. With increased power density and high reliability, the fuel-flexible 16CM43 is ideal for prime, standby, distributed generation, and peaking.

“Many of our customers come to us from countries that are facing a severe energy crisis,” states Clive Nickolay, manager of Global Sales and Marketing, CPGS. “As such, local grids are not able to support the growing demand and businesses are often times responsible for their own energy production. By offering a single generator set package that produces more than 14 MW of power, Caterpillar is able to alleviate power shortfalls for a wide variety of our customers.”

Easy to maintain with integrated subsystems that reduce sealing surfaces, the 16CM43 features a long-stroke design that operates at lower engine speeds. As a result, component life is increased, while maintenance costs are decreased. The 16CM43 also offers low operational costs with the lowest brake-specific fuel consumption (BSFC) in its reduced lube-oil consumption and greater time between overhaul (TBO).

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The 16CM43 is designed for reliable operation with intensive cooling of key components enabled by exhaust valve seats, injector cooling integrated into the lube oil system, and a high-efficiency turbocharger. This engine is capable of operation up to 700 cSt/50° C fuel quality according to CIMAC H55/K55.

The 16CM43 is manufactured with the highest-quality engine parts, made from state-of-the-art materials, highlighted by semi-dry wear-resistant liners with calibration inserts, pistons equipped with forged steel crowns and aluminum skirts, inlet/outlet valves outfitted with armored seats, and a high-efficiency turbocharger. The engine's one-piece dry engine block is made from high-strength nodular cast iron and operates free from cooling water with an under-slung crankshaft.

Like all Cat engines, the 16CM43 is designed with reliability and ease of maintenance at the forefront. Modular design and integral construction reduce the number of components by 40 percent over conventional designs. The 16CM43 employs easily removable cylinder heads and fluid connections, as well as split connecting rods that allow the removal of pistons without disturbing the big end bearing.

To address future power needs, CPGS power systems are engineered for streamlined expansion. Multiple units can be added for increased capacity.

Caterpillar Power Generation Systems offers the electric power market a wide range of solutions that include engineered equipment, turnkey power plants, and financing, operation and maintenance services. For more information on Caterpillar Power Generation Systems, please visit us online at <http://go.cateps.com/cpgs> or email [cat-powerplants@cat.com](mailto:cat-powerplants@cat.com).

For more than 80 years, Caterpillar Inc. has been making progress possible and driving positive and sustainable change on every continent. With 2006 sales and revenues of \$41.5 billion, Caterpillar is the world's leading manufacturer of construction and mining equipment,

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diesel and natural gas engines and industrial gas turbines. More information is available at <http://www.cat.com/>.

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To receive a hi-res supplementary image for this release, contact Jennie Tylec, Gelia Wells & Mohr, P: 716.629.3267, E: [jtylec@gelia.com](mailto:jtylec@gelia.com)

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Commission, including the financial release filed on Form 8-K with the Securities and Exchange Commission on April 24, 2006. We do not undertake to update our forward-looking statements.

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