



**HIGHER  
EFFICIENCY  
LOWER COSTS**



**THE NEW CAT® G3520K**  
NATURAL GAS GENERATOR SET  
For 1.5 – 2.5 eMW Applications



# THE BEST JUST GOT BETTER

## THE NEW CAT® G3520K

Upgraded to better meet today's challenges, this innovative new generator set delivers more efficient power in more places at a lower cost. The G3520K is built with longer-lasting parts than previous models, and remote asset monitoring is available, giving you added peace of mind. Advanced controls, improved serviceability, and greater flexibility make it the right choice for your business.





# WHEN 90% OF YOUR RUNNING COST IS FUEL, IT PAYS TO BE EFFICIENT

In a shifting energy landscape, can you afford less than the best? The new G3520K, our most efficient gas genset yet, delivers more power at a lower total fuel cost, reducing your Total Cost of Ownership (TCO) by up to \$350,000\* on fuel alone.

\* As compared with the G3520H operating at full load for 8,000 hours per year on \$9.81/GJ fuel over a ten-year period.

- ⊕ Best In Class Electrical Efficiency
- ⊕ Peak Performance Whenever You Need It
- ⊕ Improved Thermal Efficiency
- ⊕ Runs On More Fuels, In More Applications



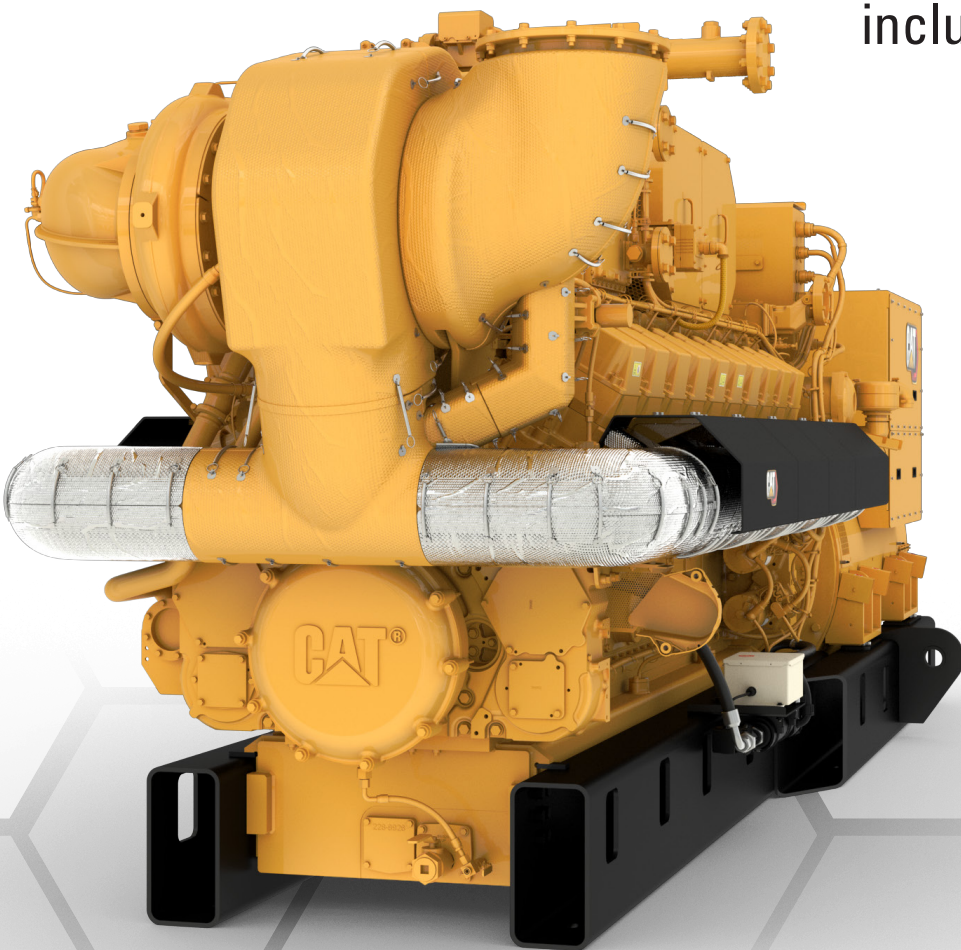
# USE MORE FUELS...

The 3520K runs at 100% rated power with more fuels than the previous model, and can run down to Methane Nr 60 methane without derate.

## Fuels include:

- + Natural Gas
- + Propane
- + 25% Hydrogen Blends\*
- + Coal Mine Methane (CMM)\*
- + Medium Quality Biogas\*

\*These fuels will be available later in the year.





# IN MORE APPLICATIONS...

Each genset in the innovative G3500K series is optimised for combined heat and power (CHP)/cogeneration applications, with a total efficiency of up to 89.6%.\* The G3520K's reliability, durability, efficiency, and improved design make it ideal for any continuous power need, even in extreme climate conditions.

# IN MORE PLACES...

The G3520K supports operation without derating in harsh environments, with better high-altitude capability and higher ambient temperature performance than previous models in this power range. Intense heat, peak altitudes, urban landscapes, or off-the-grid sites – wherever it's placed, it handles every power need.

# WITH BETTER CONTROLS...

When you demand the best in smart energy management, choose a Cat® power asset, with built-in Cat control. Caterpillar offers a full suite of energy controllers. Whether your K series genset is part of a microgrid, a multiple-genset plant, or is a sole gas generator on site, we have a scalable controller solution designed for your application.

\*Total genset efficiency of 89.6% running at 500 mg Nox, 50 Hz, JW 88C

G3520K IMPROVED CONTROLS			
FUEL SYSTEM	AIR SYSTEM	AIR MANAGEMENT SYSTEM	IGNITION AND COMBUSTION
<ul style="list-style-type: none"> <li>+ Gas shut off valve with proof of closure</li> <li>+ Pressure check and leak detection</li> </ul>	<ul style="list-style-type: none"> <li>+ Turbo surge protection strategy</li> <li>+ New pressure, temp, and speed sensors</li> </ul>	<ul style="list-style-type: none"> <li>+ 24V coolant diverter valve</li> <li>+ Additional temperature sensors</li> <li>+ DIN compliant connections</li> </ul>	<ul style="list-style-type: none"> <li>+ Internal ignition harness to assist with EMI/EMC compliance</li> <li>+ Enhanced diagnostics using in Cylinder Combustion Sensor (ICPS)</li> <li>+ Improved detonation control</li> </ul>

# MEET ENERGY NEEDS, NOW AND IN THE FUTURE

As your energy needs evolve, so will your solutions. By choosing a supplier that can not only provide power generating equipment, but also controls, switchgear, and monetization and asset monitoring technology, you'll reduce future rework and save time. At the end of the day, you can focus on your business and what you do best. We give you the power to make that happen.





# DELIVER MORE POWER, FASTER

The improved performance of the G3520K helps you accept power loads more quickly and produce more power at a lower cost. It has increased power density compared to previous models, starts more quickly, accepts higher loads, and reaches full load capacity 40% faster, with G2 transient capability.



# THE G3520K BY THE NUMBERS

For 1.5 – 2.5 eMW Applications Continuous Rating 2541/2500 ekW @ 1.0pf

## READY FOR **EXTREMES**

**65%**  
HIGHER  
ALTITUDE  
CAPABILITY

**10%**  
HIGHER AMBIENT  
TEMPERATURE  
CAPABILITY

## READY FOR **LOWER METHANE**

**65** G3520H      **60** G3520K

## LOWER COSTS

**\$350,000**

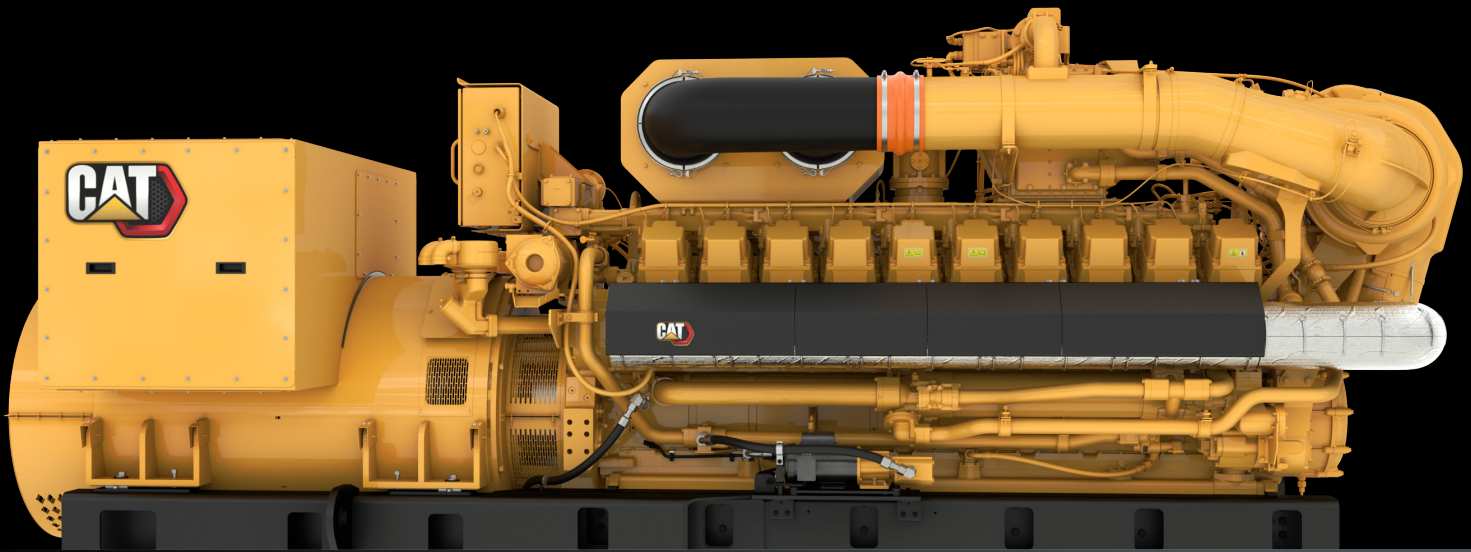
ON FUEL COSTS\*

**PLUS**

IMPROVED TCO

\* As compared with the G3520H operating at full load for 8,000 hours per year on \$9.81/GJ fuel over a ten-year period.





## FASTER STARTUP AND LOAD ACCEPTANCE

**40%** MORE RESPONSIVE

G3520H 6-10 MINUTES  
G3520K 5 MINUTES

## SMALLER FOOTPRINT

**60** HZ  
G3520K

**7%** LESS THAN THE SIMILAR MODELS

## INCREASED EFFICIENCY

↑ **2.8** %-p THERMAL EFFICIENCY

↑ **1.6** %-p ELECTRICAL EFFICIENCY

# SMALLER SPACES, GREATER SERVICEABILITY, GLOBAL SUPPORT

The G3520K requires less space than the G3520H, and significantly less than gensets from other manufacturers. That makes installation easier and leaves more space for servicing. The G3520K is also equipped with In Cylinder Combustion Sensors (ICPS) that improve diagnostic ability. They improve detonation control and provide crucial information about combustion processes right from the source. This makes diagnostics more accurate and allows you to identify and repair problems faster.

Plus, you'll have the Cat global dealer network standing behind you, helping you effectively maintain and manage your genset to get the most from your investment throughout its life.



# DO MORE FOR LESS

**CONTACT US TO LEARN MORE**







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