



Powering your world



**Power  
Generation**

# Reliable power solutions around the world



Our world depends on reliable power for just about everything: for day-to-day living, for travel and leisure activities, for manufacturing and commerce, and for essential, life-saving services.

For over 90 years, Cummins Power Generation has been supplying all kinds of reliable power for customers around the world. Homes, boats and RVs use our generators. Providers of essential services like hospitals, data centers and public safety agencies rely on our emergency standby power systems to keep functioning during a power outage. Businesses interested in distributed power use our systems to reduce costs and save energy with prime or peaking power applications or cogeneration. Organizations wanting to reduce emissions install our systems to generate electricity from lean-burn natural gas, methane, biofuels, and other alternative and renewable energy sources.

We invite you to explore the possibilities of our reliable power solutions.

## Global strengths, local partnerships

At Cummins we serve our customers through a network of 79 factories, 19 technical centers, 20 parts distribution centers, more than 500 distributor facilities and over 5,000 dealer locations in over 190 countries and territories.

## Reliable products, dependable people

Reliability, the hallmark of our power generation systems, starts with a continuous focus on quality. Cummins implemented the globally recognized Six Sigma quality management strategy in 1994. Since then, we have applied its tools and processes to more than 19,000 projects across the organization.

Our focus on quality extends to more than reliable products. It also means dependable people who follow consistent processes in their jobs. Whatever our individual roles — system designer, application engineer, project manager, service technician — we all strive for consistent quality in serving our customers.

Continuous improvement in everything we do is part of our vision. Six Sigma is an essential part of how we realize that vision.



## Technical innovation

Maintaining our competitive advantage in delivering reliable power requires technical innovation. Cummins Power Generation is committed to product innovations that save energy, time and money, without sacrificing quality and reliability. We invest hundreds of millions of dollars each year in research and development to advance engine and power generation technologies. For example:

- We are leaders in developing in-cylinder and aftertreatment technologies to meet or exceed increasingly strict emissions regulations for nonroad engines around the world, including Tier 4 in the U.S. and Stage IIIA in the European Union.
- Our new high-range generator sets have a smaller footprint, the best transient and motor-starting capability in their class, faster setup time, an 85% reduction in engine vibration, and emissionized and fuel-optimized models to meet varying installation requirements.



## Powering the world since 1919



**1919:** Clessie Cummins and W.G. Irwin establish Cummins Engine Company.

**1920:** David Onan founds Onan Corporation.

**1926:** First diesel-powered earthmover.

**1929:** First diesel-powered car.

**1931:** First 500-watt generator. New York to Los Angeles in 97 hours in a diesel-powered truck.

**1935:** Diesel-electric locomotives produced.

**1940s:** Engines for heavy trucks and electric generators for Allied forces.

**1960s:** Automatic transfer switches and paralleling switchgear are introduced.

**1992:** Onan becomes subsidiary of Cummins.

**1994:** First integrated digital control systems introduced, featuring PowerCommand® controls.

**2006:** Cummins Power Generation receives North American Diesel Engine Technology Leadership of the Year Award.

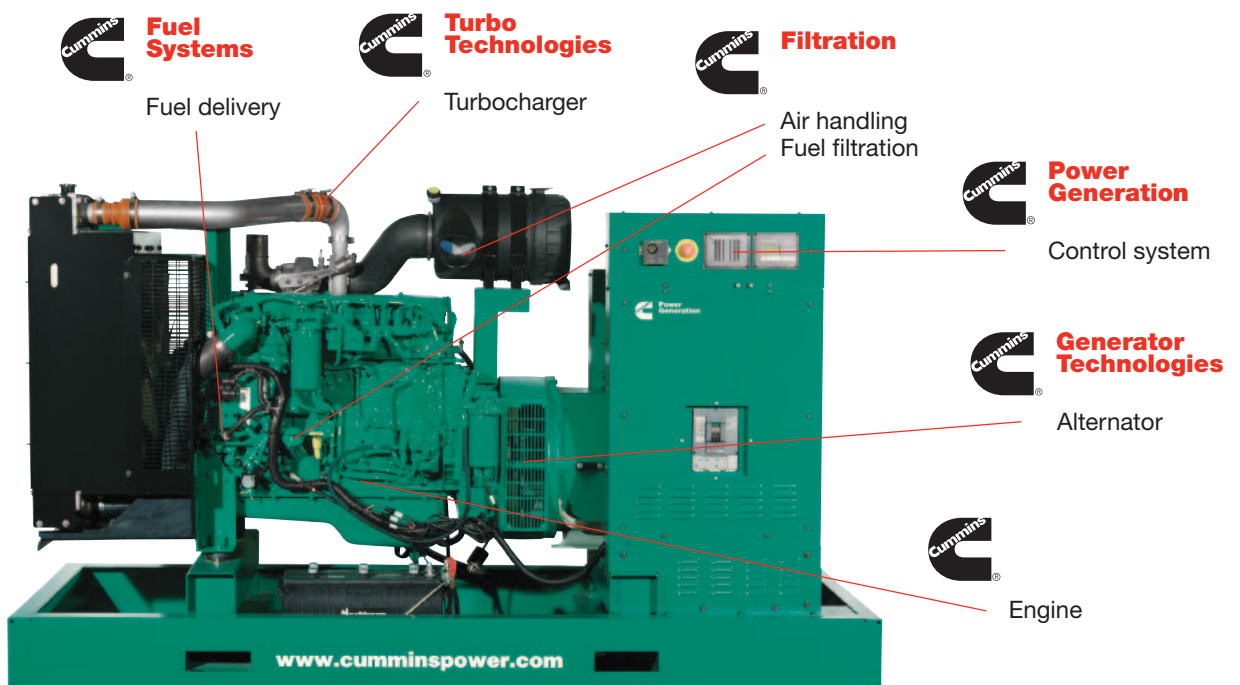
**2009:** Cummins named to Dow Jones Sustainability Index for fifth consecutive year. Named one of “Top 50 Companies for Diversity.” Named to “Top U.S. Corporate Citizens” for tenth year.

**2010:** Named to *Bloomberg Businessweek*’s list of 50 best-performing stocks over the previous five years. Named one of “Best Places to Work” for new grads by Experience.com for third consecutive year.



# Reliability from one company working for you

Cummins Power Generation develops, designs, builds and supports complete power generation systems using components from one company — ours. You benefit from reliable, fuel-efficient product designs that make better use of space and provide seamless functionality. You also have one source for accountability, service and support. That's what we call The Power of One.™



**Subsidiaries of Cummins Inc.**



“The company boasts an approach to engine emissions reduction based not only on best-in-class technology and design, but also on providing a product and cost that align with customer requirements.”

FROST & SULLIVAN

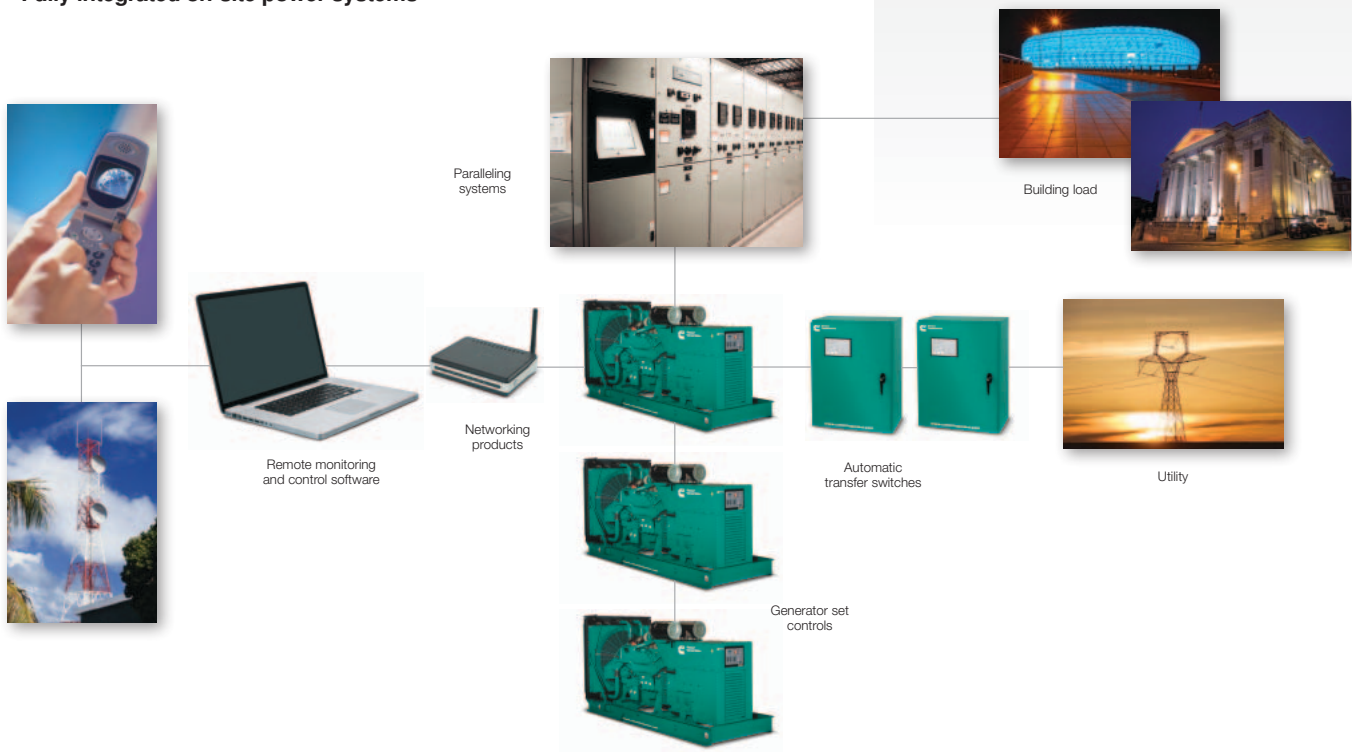
The international consulting firm Frost & Sullivan gave Cummins Power Generation the 2008 North American Product Quality Leadership of the Year Award. The award recognized Cummins Power Generation for its “effective business strategies and adoption of eco-friendly guidelines that establish the superiority of its products.” This was the second time in recent years that Frost & Sullivan recognized Cummins Power Generation. In 2006, the company won the North American Diesel Engine Technology Leadership of the Year Award.

## Total power solutions

Our complete power systems include low-range and high-range generator sets, automatic transfer switches, digital master controls, paralleling switchgear, and networking software for remote monitoring and control.

We surround these systems with total project capabilities, from initial site planning through system design, construction, installation, commissioning, operation and maintenance.

### Fully integrated on-site power systems



# Our capabilities, your solutions

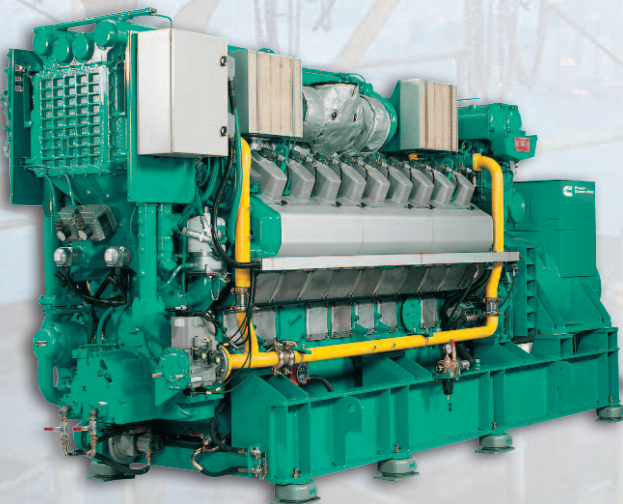
Cummins Power Generation has the capability to provide reliable power for a wide range of applications, wherever and whenever you need it.

## Emergency/standby power

We offer both short-term and long-term standby power solutions for hospitals, factories, office buildings, telecom facilities, hotels, sports arenas, mining operations and other kinds of enterprises. The systems range from 10 kW to 2700 kW and can run on either diesel or a variety of gas fuels, including lean-burn natural gas.

## Emergency, prime and peaking power

We can design, build and even manage prime power and peaking power systems, either permanent or temporary, anywhere in the world. That includes power to supplement what the grid supplies, which can reduce your costs when utility rates are higher. It also includes prime power where there is no utility.





### **Cogeneration**

Businesses that use a lot of energy — such as greenhouses, food processors and independent power producers — look to us for cogeneration systems. These distributed energy systems, which typically use lean-burn natural gas, can generate electricity as well as thermal energy for heating and cooling. Our cogeneration customers save up to 35% on total energy costs.

### **Alternative energy solutions**

We design, build and maintain low-Btu power generation systems that can use a variety of energy sources. These alternative fuels include gases from landfills, wastewater treatment plants, agricultural waste, coal seams and refinery flares, as well as biodiesel and natural gas.

### **Consumer power**

Our power solutions are not limited to huge facilities and big companies. We have also been meeting the needs of individual consumers and small organizations for decades. These include compact, efficient generators for residences, boats, RVs, and commercial vehicles such as ambulances, fire engines and utility company vehicles.

### **Rental power**

Our rental expertise is focused on delivering total mobile power solutions that solve customers' biggest challenges, whether the need is for prime power, emergency power after a natural disaster, or temporary power for a special event. Look to us as your single source for reliable systems, customized configurations that meet local regulations, easy installation and excellent local support.



# Powerful global success stories from Cummins Power Generation

From project inception ...  
to installation ... to follow-through,  
Cummins Power Generation is a  
tirelessly creative force in providing  
the energy solutions you need.

On the next pages are just a few of  
the many innovative and cost-efficient  
systems we've engineered  
for our customers.







# Cogeneration

Hot water



## Jinqiao Sports Center, China

Visitors to this 120,000-square-foot sports center located in Shanghai can exercise in comfort, thanks to a new combined-heat-and-power (CHP) or cogeneration system from Cummins Power Generation. The system uses natural gas to power the 350 kW lean-burn gas generator that supplies electricity to the facility, while the waste heat is used to make hot water and heat the swimming pool and building.



## Prime power

Palm oil



### **Kanowit Palm Oil Mill, East Malaysia**

Malaysia produces nearly half of the world's annual output of palm oil. The factory at Sibul, Sarawak, in East Malaysia, has no grid power supply in the area, so it uses the residue and shells from the oil palm fruit as fuel for a waste-fired boiler that drives a steam generator. The factory depends on reliable diesel generators from Cummins Power Generation to start up the boiler each day and to power the plant, offices and residential units during the hours when the steam turbine is not operational.



## Standby power

Nuclear research



### **Lucas Heights Nuclear Replacement Reactor, Australia**

The 2.5 MW diesel standby power system for the nuclear research reactor at Sydney's Lucas Heights Science and Technology Center required one of the most exhaustive seismic analyses ever for generator sets from Cummins Power Generation. Installed as a backup for the normal power supply that runs the nuclear research center, the complete power system provides status data to the reactor control and monitoring system.



# Standby power

Cellular sites



## **IDEA Cellular Limited, India**

IDEA Cellular and its antecedents were among the first telecom companies to set up cellular operations in nonmetro areas. Today, IDEA Cellular's constantly growing network comprises more than 1,000 towns and also provides unsurpassed highway coverage. Seamless cellular phone service requires an uninterrupted power supply, which is why IDEA has installed backup power systems from Cummins Power Generation at more than 400 cell sites. Most of these cell sites are on the rooftops of residential buildings, which means that the generators have to be compact, lightweight and operate with minimum vibration and noise.



## Rental power

More ore



### **Falcondo Nickel Mine, Dominican Republic**

Because of the increasing worldwide demand for ferronickel (used in the stainless steel industry), the Falcondo Nickel Mine wanted to avoid the production slowdown caused by annual thermal power plant maintenance. Instead, the mine turned to temporary power by renting 32 2 MW rental power units from Cummins Power Generation. The turnkey system was delivered and installed in just 45 days from contract to system start-up, allowing the mine to maintain production during scheduled maintenance.



## Waste-to-energy

Alternative fuel



### **Landfill waste-to-energy plant, Scotland**

Methane powers the Cummins Power Generation lean-burn gas generator sets at this 193-acre landfill site in Dunbar. The methane is produced from the thousands of tons of domestic waste the site processes daily. The turnkey power plant produces 3.5 MW of electricity that is sold to a nearby cement plant. A key selection factor was the high-volume output of the lean-burn generators per dollar of investment.



## Peaking power

Grid support



### **Tennessee Valley Authority (TVA), USA**

The largest regional power supplier in the United States uses both diesel and natural gas peaking plants from Cummins Power Generation to help meet utility demands. The distributed generation plants not only provide peaking power, but also reduce loads on transmission lines, bring down power costs and improve electric reliability. A 20 MW diesel plant for one TVA member utility provides emergency backup power to the local community, while a 21 MW peaking-only plant burns natural gas so cleanly, it's permitted to operate for up to 1,200 hours per year.



## Prime power

Cargo lifting



### **IMPSA Port Systems, Port of Santos, Brazil**

The Port of Santos, located in the state of São Paulo, is the busiest port in Brazil. With 8.7 miles of docks spread along inland channels, the shipyard depends on rubber-tired gantry cranes (RTGs) from IMPSA Port Systems to load, unload and move containers. These RTG cranes — capable of lifting up to 40 tons each — are powered by diesel generators from Cummins Power Generation. Installed in the structure of each RTG, the enclosed and acoustically insulated generators provide all the electric power required for movement, traction and lifting.





## Standby power

Medical emergency



### Al Ahli Hospital, Qatar

One of the largest private hospitals in the Middle East, the new Al Ahli Hospital in Doha depends on Cummins Power Generation generators, paralleling switchgear and digital master control for emergency backup power. The system is designed to supply about 40 percent of the hospital's total needs, including all of its critical loads, such as the intensive care unit, operating rooms and computers, as required by international building codes.



## Peaking power

Environmental excellence



### **Lonsdale Power Station, Australia**

The 20 MW diesel peaking power plant outside of Adelaide was the first of its type in Australia, and it demonstrated that diesel power can meet tough environmental standards. The power plant was awarded a prestigious Institution of Engineers Australia commendation for environmental excellence because the plant's NOx emissions at ground level are significantly below tough Australian standards proposed for 2008. The power station is also 80% quieter than standards require. Built in just four months by a team from Cummins Power Generation, the unmanned power station can be started automatically on demand, within 60 seconds, from anywhere in Australia.

## Reliable power for your business

We understand that you are looking for solutions that save money, reduce energy consumption and provide the reliable power you need to focus on your business. At Cummins Power Generation, we focus on quality products, technical innovation and global capabilities, all in order to deliver that reliability.

We invite you to learn more about our reliable solutions for your power needs. Contact your local Cummins Power Generation distributor or your local Cummins Onan dealer. Or visit us at [www.cumminspower.com](http://www.cumminspower.com) or [www.cumminsonan.com](http://www.cumminsonan.com).



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