

RUNREADY™

Seconds **That Matter**

New standby power system safeguards patient care

RELIABILITY IS AN INSIDE JOB

Keep your gensets performing at their best

POWERING RURAL RESILIENCE

Cat GC generators maintain uptime across broad service territory

**Cleveland
Brothers**



POWERING WHAT MATTERS MOST

Resilience takes many forms. Sometimes it's found inside a world-class healthcare facility where every second matters. Other times, it's spread across hundreds of square miles of rugged terrain where reliable water and wastewater service can never stop. In both cases, dependable standby power is what keeps critical operations ready to run 24/7.

At Oregon Health & Science University's new Vista Pavilion in Portland, backup power is far more than a safeguard—it's a lifeline. The state-of-the-art cancer care tower depends on three Cat® 3516C generator sets and advanced Cat Switchgear technology to ensure uninterrupted patient care during utility outages.

As senior electrician Chuck Pratt explains, the standby power system isn't simply about keeping lights on; it's about protecting lives, supporting surgical procedures and maintaining critical hospital infrastructure without interruption. The story also highlights the importance of thoughtful system integration, long-term planning and the value of trusted Cat dealer support.

This issue also features a utility in northern Idaho, where the North Kootenai Water & Sewer District operates one of the region's most geographically dispersed utility systems. Serving communities spread across mountains, valleys and lakeside developments requires a constant focus on uptime, remote visibility and operational readiness.

With 18 Cat generator sets supporting water treatment, wastewater operations and pump stations, the district relies on standby power to maintain essential public services during storms and outages. The story showcases how Cat Connect technology, Cat SpecSizer and Cat dealer support help the utility maintain confidence across a vast service territory.

While these two operations are vastly different, they share a common mission: Reliably powering what matters most.



DID YOU KNOW?

AI BOOM FUELS RESULTS

Caterpillar reported strong Q1 2026 results, with revenue of \$17.4 billion, marking a 22% year-over-year increase and beating market analyst's expectations of \$16.5 billion. Earnings per share were \$5.54, well above the prevailing estimate of \$4.63.

What's behind the increase? The century-old machinery company is supplying necessary infrastructure that helps build data centers which support artificial intelligence. Every AI data center requires reliable, nonstop power, and Caterpillar produces the generators, turbines and ancillary equipment that provide both primary and backup energy for these facilities.

During the first quarter, Caterpillar's Power & Energy segment grew 41% to \$2.82 billion, largely driven by rising data center demand. Caterpillar's order backlog has reached a record \$63 billion—up 79% from last year. These are confirmed orders extending all the way into 2028, showing that the AI infrastructure boom is far from over.



CAT® GENERATORS COVER RENEWABLE SHORTFALLS IN UK

As it moves to lower its carbon power infrastructure, the UK still needs power when the sun isn't shining, and the wind isn't blowing.

More than 100 Cat® generators can be called upon as needs fluctuate, feeding the required power directly into the local grid, thus avoiding the need for long warm-up and cool-down times that more traditional methods of balancing the grid require, according to Daniel Newman-Smith, a customer account manager at Finning UK & Ireland.

The government's Net Zero 2050 target is driving a transition to renewable sources like wind and solar power, but the intermittent nature of renewables creates challenges in ensuring a consistent, reliable supply of electricity. This means that flexible, on-demand energy is essential to the energy transition. One company delivering these flexible power services is Mercia Power Response. It currently owns or operates a combined 275MW on 42 sites, operating gas-fueled generators and battery storage to ensure a continuous power supply to local communities.

The Mercia Power Response electricity generation facility at Mitchells Industrial Park in Barnsley has the capacity to respond quickly to prevent a 'lights out' scenario. Finning has supplied over 100 generators to the various sites owned by Mercia Power, and provides a long-term maintenance and repair package, assuring complete peace of mind.

"The system ramps up to full power in just a couple of minutes, in response to surges in demand or drop-offs in power coming from other sources," said Graham White, Managing Director at Mercia Power Response. "This flexible response is essential to managing the transition to a greener grid, and it is important that these generators can also run on low carbon alternative fuels, including biogas and hydrogen blends."

IN THE SPOTLIGHT:

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When Seconds Matter

The new 14-story Vista Pavilion represents a \$650 million investment in advanced cancer care. In a facility like this, where the stakes are high, it's about patient care, maintaining life safety systems, elevators, fire pumps—everything that keeps people safe. Three new Cat® 3516C diesel generator sets are there to serve that purpose.

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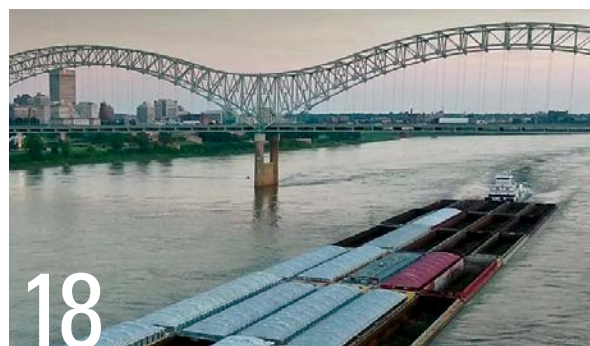
Genuine Cat parts are just a click away

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Seconds That Matter

New standby power system safeguards patient care

High above Portland on Marquam Hill, a new landmark is redefining cancer care in the Pacific Northwest. The Vista Pavilion at Oregon Health & Science University (OHSU) is much more than a 14-story expansion—it's a purpose-built facility designed to support some of the most complex and critical patient treatments in the region.

Built into the hillside and connected to the existing hospital campus by skybridges, the facility represents a \$650 million investment in advanced cancer care.

Opened in April, the roughly 530,000-square-foot tower adds 128 inpatient beds and significantly expands the capabilities of the OHSU Knight Cancer Institute, freeing up space in OHSU's existing footprint to expand care for patients in need of cardiovascular, neurological and other types of complex specialty care uniquely provided by Oregon's only academic medical center.

Behind the patient rooms, surgical suites and treatment areas lies an equally critical system—one that patients may never see, but that staff depend on every second of every day—reliable, immediate backup power.

No margin for error

"In a facility like this, the stakes are incredibly high," says Chuck Pratt, senior electrician for Facilities Operations at OHSU. "It's not just about keeping the lights on—it's about patient care, maintaining life safety systems, elevators, fire pumps—everything that keeps people safe."

To meet those demands, Vista Pavilion is supported by a dedicated, on-site power plant. Three new Cat® 3516C diesel generator sets, each rated at 2 MW, deliver a total of 6 MW of standby power—enough to operate the entire building when grid power is lost.

"The 3516Cs fit exactly what we need," Pratt explains.

CUSTOMER PROFILE

Oregon Health & Science University

Location: Portland, Oregon

Cat® Equipment: 3516C diesel gensets (3), Switchgear (1250V)

Cat Dealer: Peterson Power Systems

“They deliver the right balance of performance, horsepower and fuel efficiency for this application.”

The system is engineered for speed as well as capacity. In the event of a utility failure, the building automatically transfers to generator power in less than 10 seconds—meeting strict hospital code requirements and ensuring seamless continuity of patient care.

“When we lose grid power, we’re online within about eight seconds,” Pratt says. “From there, we’re fully supporting the building. Patients are safe, and operations continue without interruption.”

That responsiveness isn’t just theoretical. Like many healthcare facilities, OHSU experiences periodic outages—typically during winter storms that bring surges, sags and instability to the regional grid. To stay ahead of those events, Pratt and his team sometimes take a proactive approach.

“If we know a major storm is coming, we’ll transfer the building to generator power ahead of time,” he says. “We do that not just here, but across other hospital buildings on campus as well.”

Designed for resilience

Beyond the generators themselves, the Vista Pavilion system is engineered for long-duration performance.

“The 3516Cs fit exactly what we need. They deliver the right balance of performance, horsepower and fuel efficiency for this application.”



CHUCK PRATT,

SR. ELECTRICIAN FOR FACILITIES OPERATIONS
Oregon Health & Science University

A remote fuel storage system—located across the street and connected via underground piping—holds approximately 50,000 gallons of diesel, providing at least 96 hours of runtime for the entire building. With an N+1 redundancy configuration requiring only two of the three generators to carry the load, actual runtime can extend even further.

Maintaining fuel quality is equally important. “We use fuel polishing systems, stabilizers and daily circulation of our day tanks,” Pratt explains. “That ensures we avoid contamination and maintain reliability over time.”

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It's a comprehensive approach that reflects the broader philosophy behind the facility: eliminate single points of failure, and plan for the unexpected.

The brains of the system

While the generators provide the muscle, the true intelligence of the operation is the switchgear system—arguably one of the most critical components of the entire pavilion's installation.

"The Cat Switchgear was a major deciding factor for us," Pratt says. "It's not just about distributing power—it's about how everything connects, communicates and smoothly operates together."

The medium-voltage system, rated at 12,500 volts, mirrors utility power and enables efficient distribution throughout the building—from basement to penthouse. More importantly, it enables the facility to seamlessly isolate itself from the grid and operate in island mode whenever needed.

"We can cross-tie to the utility, then disconnect and run independently," Pratt explains. "That flexibility is essential for a building of this size and complexity."

The system also incorporates advanced control features tailored specifically to hospital operations. Among them: the ability to maintain stable power without automatic retransfer—critical during sensitive patient procedures.

"In an emergency, the last thing you want is a system making unexpected transitions," Pratt says. "We worked closely with Caterpillar and to make sure the controls

perform exactly as needed."

At the center of it all is a highly intuitive touchscreen interface that provides real-time visibility into every aspect of the system—from automatic transfer switches to fuel levels and generator status.

"When you only have one or two people onsite, having remote visibility is huge," Pratt says. "You can immediately see what's happening, communicate with others and take appropriate action."

Factory to field

Achieving that level of precision required more than just specifying the right equipment—it demanded close collaboration with Caterpillar and its specialists from the earliest stages of the project.

Pratt and his team traveled to the Cat Switchgear facility in Alpharetta, Georgia, to witness factory testing and refine system functionality before delivery.

"That was invaluable," he says. "We were able to see the system operate as designed and make adjustments to the graphics and controls to better fit our needs."

Once the equipment arrived on site, that collaboration continued—most notably through the involvement of Cat technicians dedicated to commissioning and fine-tuning the system.

One such Cat Switchgear specialist, Tim Miller, played a key role in ensuring that every component—from contractor wiring to final configuration—performed exactly as designed and intended.

“His job is to make sure everything is wired correctly, communicating correctly and operating the way it should,” Pratt says. “That includes startup performance, synchronization and overall system tuning.”

That hands-on support proved especially valuable given the complexity of the installation.

“This is not a simple system,” Pratt adds. “Having someone from Cat Switchgear on site who understands it inside and out makes a huge difference.”

A trusted partner

Supporting the entire project was Peterson Power Systems, OHSU’s longtime Cat dealer.

“I’ve been working with Peterson for over two decades,” Pratt says. “They’ve been a very good partner for us.”

That relationship played a key role in the decision-making process, from initial system design through final delivery.

“We started planning this project back in 2018,” he explains. “We evaluated multiple options, but ultimately chose Caterpillar and Peterson because their solution was the best fit for our application—and because we understand how the system works.”

Peterson’s ability to navigate supply-chain challenges during the COVID-era construction period was also critical.

“There were long lead times across the industry,” Pratt says. “Peterson did a great job delivering what we needed within those constraints.”

The result is a system that not only meets the hospital’s current needs, but also aligns with its broader infrastructure strategy. Today, OHSU operates Cat generator systems in approximately 30 buildings across its campus, with additional units supporting off-site facilities.

“That consistency matters,” Pratt notes. “It makes maintenance, training and operations much more efficient for everyone.”

Built to last

Installing the generators was a project in its own right. Due to their size, the units were set in place early during construction—before upper floors were completed—and they remained protected inside the structure for more than a year before the final assembly process began.

“It took a lot of coordination,” Pratt says. “There are many moving parts in a project like this.”

That complexity underscores the importance of getting every detail right—from equipment selection to system integration.

For Pratt, whose experience with Cat generators dates back to

“The Cat Switchgear was a major deciding factor for us; it’s not just about distributing power—it’s about how everything connects, communicates and smoothly operates together.”

— CHUCK PRATT

his time in the U.S. Navy working on 3512 engines aboard the USS Safeguard, the evolution of technology has been remarkable.

“The fundamentals are still the same,” he says. “But now we have systems that can communicate, monitor and anticipate issues in ways we never could before. And these generators are built to last—they will probably outlive me based on their expected time in service.”

Powering what matters most

At Vista Pavilion, that evolution translates into something far more meaningful than technical capability. It means uninterrupted care, providing a safe, reliable environment for patients undergoing critical treatments. And it means peace of mind for the people responsible for keeping the facility running.

“At the end of the day, it’s about taking care of people,” Pratt says. “That’s what this system supports.”

In a building dedicated to fighting cancer and saving lives, that kind of reliability isn’t just important. It’s essential. 





RELIABILITY

is an Inside Job

Keep your gensets performing at their best

Weather, grid conditions and renewables may fluctuate, but the reliability of your gensets shouldn't. Genuine parts, predictive maintenance and timely procurement provide you with a stronger foundation for handling changing conditions with confidence.

Why genuine components matter

Every Cat® genset is engineered as a complete system that needs to be maintained throughout its life. Reliability is often defined by the small parts and components that keep everything working as designed: filters and fluids, spark plugs, pumps, O-rings, seals, and even hardware. These small components can make the difference between something working or not, and overlooking them can put your entire system at risk.

One of the leading causes of gensets failing to start—even after parts have been replaced—is the use of third-party components. While this might seem like a cost-saving strategy, the reality is that non-genuine Cat parts often lack the precise engineering and rigorous testing required for

durability, performance, and compliance. That difference can be the deciding factor between smooth operation and unexpected downtime. If you opt for third-party parts, you could face:

- **Operational risks** - In standby applications, mismatched parts can contribute to slow starts or non-starts—something no data center, hospital or mission-critical operation can afford. In prime power settings, they can trigger engine derates and reduce available power output.
- **Reduced efficiency** - Parts that don't match exact fit, flow or tolerance requirements can limit airflow, disrupt fuel delivery or create imbalances that make your genset work harder than it should.
- **Increased wear** - Lower-grade materials or filtration media may allow more contaminants into the system, accelerating wear on injectors, bearings and other costly-to-replace parts or components.

- **Higher long-term costs** - What seems like a small upfront savings can turn into multiple replacements, more frequent repairs and unplanned downtime—often outweighing any original price difference.
- **Warranty and safety risks** - If a failure is connected to a non-genuine component, warranty support may be limited. Parts that don't perform as intended can also introduce safety risks.

Parts.Cat.Com: Ordering made easy

Predictive insights only deliver value if you can act on them quickly—which means having the right parts ready when you need them. **Parts.Cat.Com** is a 24/7 platform that gives you easy access to more than a million genuine Cat parts—including planned maintenance kits for gensets and everyday items like filters, spark plugs, pumps, oils, batteries and more. It's a fast, accurate way to find and order what you need, supported by the same Cat dealer network that you already depend on.

On the site, you can check inventory and pricing any time of day or night, place orders from the field or office, and quickly reorder the parts you use most. Parts ship directly to your location and are backed by the Caterpillar Limited Warranty. If you receive a service alert in VisionLink™ or the Cat Central app, a single click takes you to **Parts.Cat.Com** to order the required part or component.

For larger organizations, the ProBuyer feature includes bulk ordering, integration with existing procurement systems and real-time availability and delivery tracking to help simplify

high-volume or multi-site maintenance needs.

Whether you oversee a single genset or a complex power portfolio, **Parts.Cat.Com** makes it easier to receive the right parts in the right places at the right times.

VisionLink™ keeps you ahead of the curve

Choosing the right parts is just one aspect of reliability. Having them when or even before you need them is just as important. Genset maintenance practices have shifted from reactive to proactive during recent years, and connectivity is now enabling a predictive approach—creating a continuous flow of real-time data between controls, systems, and platforms.

Here's why that matters: When your gensets are connected, you gain clearer insights into run hours, load patterns, temperature trends, and overall system health. VisionLink is a tool which serves as your own personal assistant—giving you access to data that helps you keep on top of everything, while telling you exactly when it's time to replace a filter, belt, or spark plug. That gives you the ability to plan ahead, rather than scrambling after a breakdown. Any delay in acting on these alerts increases the risk of efficiency loss or even unexpected derates.

In short, connectivity turns maintenance from a guessing game into a strategic advantage—helping you maximize uptime, reduce costs, and keep all of your operations running smoothly and efficiently.

To learn more about proactive parts and service support, contact our dealership. 





BACKUP PLAN

One decision can transform standby power into long-term strategy

Installing or upgrading backup power is often driven by a simple concern: Keeping operations running when the grid goes down. But one often overlooked decision can determine whether your generator remains an emergency-only asset—or becomes a long-term strategic advantage.

That decision hinges on the generator's rating.

As organizations plan for outages, rising energy costs and grid uncertainty, many focus on generator size, fuel type and installation logistics. But the generator's rating may ultimately have the biggest impact on how the asset can be deployed or utilized over the next 15 to 20 years.

Before a generator is installed, it must be certified and permitted for a specific type of operation. Changing that rating later can be extremely difficult, and sometimes impossible.

The three primary options include:

- **Standby:** Intended strictly for outages and emergency events, with limited annual operating hours for testing and maintenance.
- **Demand response/load management:** Allows operation during outages as well as selected non-emergency events.
- **Prime power:** Designed for continuous or extended operation as a primary or supplemental power source.

Traditional standby power remains the most common approach. The generator sits idle most of its life, waiting for an outage. But demand-response-rated systems can provide additional value by operating when energy conditions make financial or operational sense.

That includes:

- **Peak shaving:** Reducing expensive utility demand charges by generating onsite power during high-cost periods.

- **Demand-response programs:** Utilities in many regions compensate businesses for temporarily reducing grid demand during peak periods.
- **Energy market participation:** Some areas allow organizations to generate additional revenue through grid-support programs.

Even organizations that only need emergency backup today may benefit from choosing a more flexible rating. Energy prices, utility reliability and operational demands can change dramatically over time.

Generator ratings can also affect future growth plans.

In many regions, electrical infrastructure is struggling to keep pace with demand. New substations, transmission lines and utility upgrades may take years to complete. For organizations planning expansions, onsite generation can help bridge the gap by supplementing utility power until permanent infrastructure is available.

A standby-only generator may not legally fill that role, while a demand-response or prime-power-rated system often can.

Historically, participating in energy programs required specialized expertise and constant monitoring. Today, Distributed Energy Resource Management Systems (DERMS) simplify the process. Solutions such as Cat® AMP can automatically monitor grid conditions, facility demand and energy pricing, then determine when onsite generation should run for maximum value.

Backup power is still about protecting operations during outages. But the right generator rating can also provide flexibility, cost savings and growth opportunities long after the installation is complete.

To learn more about backup power planning, contact the power systems specialists at our dealership. 

NEW DG70 GAS GENERATOR SET

POWER A WIDE RANGE OF STANDBY APPLICATIONS

Cat® spark-ignited generator sets for stationary emergency applications provide a much cleaner and sustainable solution for your power needs. The ability to run on various gaseous fuel types and adapting automatic fuel change-over make these products capable for a wide range of applications.

Robust Spark-Ignited Engine

- Reliable, durable design
- 3.6L TCAC spark-ignited dual-fuel-engine compatible with natural gas and propane delivers consistent performance and excellent fuel economy with lower emissions.

Self-Regulated Alternator

- Superior motor starting capability minimizes need for oversizing alternator
- Designed to match performance and output characteristics of Cat engines
- Robust Class H insulation
- High-efficiency alternators with flexible packaging and easy installation
- Ease of serviceability and longer life
- Designed to operate in standard ambient temperatures up to 122°F
- Contact our dealership for specific ambient and altitude capabilities

GCCP1.2 Control Panel

- User-friendly interface and navigation
- Scalable system to meet a wide range of installation requirement
- Site-specific programming to meet customer requirements

One Safe Source

- Components used in the generator set are selected at the design stage to provide optimum package performance
- The generator set is fully assembled at a Caterpillar facility following our quality guidelines
- Each generator set package is tested before leaving the Caterpillar facility
- Cat product support, including dealer service, parts and warranty covers the entire Cat power system

To learn more, contact our dealership. 

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CAT® CVA GENERATOR SERVICE CONTRACT

Industry studies show that nearly 90% of the time, generator failures could have been prevented—and that's money out of your pocket.

Protect your generator set investment and peace of mind with a service contract designed to ensure your power equipment performs. With a Cat® Customer Value Agreement (CVA), you'll have a tailored generator service agreement between you and our dealership for a hassle-free ownership experience.

You benefit from individualized solutions for your power system, such as parts, services, and digital enablers. Our CVAs range from convenient planned maintenance to total cost performance guarantees.

CVA customers develop a relationship with their Cat dealer to optimize their generators and operations. Partner with a team that keeps your costs down and your power up with customized options. Modify your CVA service contract at any time.

Coverage without interruption-Extended Service Coverage

- Protect your investment with coverage for parts and labor expense on covered components.
- Avoid unexpected repair costs caused by unscheduled repairs.
- Budget for unexpected repairs and lock in costs up front.
- Ensure repairs are done right the first time, with factory-trained technicians using genuine Cat parts.

- Return your electric power systems to their original operating specifications, meeting all requirements for safe use and environmental compliance.
- Combine extended service coverage (ESC) with a Customer Value Agreement for complete maintenance and repair protection.

A variety of coverage options

New ESC: Coverage for electric power prime generator sets is available in 24- to 60-month terms (24- to 120-month terms for standby generator sets and automatic transfer switches), if purchased before the end of your factory warranty.

Advantage ESC: Coverage is available in 12- to 60-month terms after the end of the factory warranty period and before the first overhaul. Coverage can be extended up to 25 years from delivery date for standby generator sets, and up to 10 years for prime power installations.

Overhaul ESC: Coverage is available in 12- to 60-month terms after a qualifying overhaul has been completed by an authorized Cat dealer in accordance with the Overhaul ESC Checklist.

Get more out of your power system by minimizing downtime and extending the life of your generator with our preventative maintenance contract.

Contact out dealership to learn more about coverage level flexibility, allowances and long-term options, or go to: cat.com/epsupport.

ENERGY AS A SERVICE

GENERATE SAVINGS BY MANAGING YOUR ASSETS

Energy as a Service (EaaS) is a way to consume energy that can be at little to no cost to your business.

An energy solution, which can include multiple electric power assets such as diesel or gas generator sets and renewable energy sources, is installed at your site(s) but owned by a third-party investor who is responsible for servicing and maintenance.

What's in it for you?

- Your organization can benefit financially from the energy savings and income generated by the onsite assets.
- You receive a resilient energy solution that provides emergency backup power.
- Depending on your energy mix, your solution could also help you achieve your sustainability and emissions goals.
- With EaaS, you typically do not own the power generation assets, reducing your energy risk. However, alternative options such as 100% ownership, financing, and rent or try-before-you-buy are available.

Cat® AMP

Cat AMP is a Distributed Energy Resource Management (DERM) software installed with power generation assets to monitor energy market conditions. It accurately predicts opportunities to lower energy costs for sites with natural gas gensets, renewable power generation, energy storage, or microgrids.

How it works

When power consumption is high and energy costs soar, Cat AMP can automatically dispatch onsite assets (also known as



Distributed Energy Resources, or DERs) so your facility is not entirely running on grid power.

Who can benefit from CAT AMP?

Investor-owned utilities, municipal utilities, and large energy consumers such as commercial and industrial businesses can benefit from leveraging Cat AMP.

To learn more, contact the power systems experts at our dealership.

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www.clevelandbrothers.com

ENERGY-AS-A-SERVICE OFFERING

GUARANTEE RESILIENCY & GENERATE SAVINGS



**COMBINE
SOFTWARE,
SERVICING AND
EQUIPMENT**



**A CUSTOMIZED
AND SCALABLE
SOLUTION**



**DESIGNED
WITH A
TRUSTED
PARTNER**



**REDUCE
ENERGY
COSTS**



**LEVERAGE
YOUR
EXISTING
ASSETS**



**PAIR
WITH 24/7
MONITORING**

POWER, AIR, & TEMPERATURE CONTROL

WHEN YOU NEED MORE THAN A GENERATOR



From disaster relief to scheduled power system maintenance, often customers need advice, recommendations, and, in some cases, additional products such as:

- Battery Energy Storage
- Air Compressors
- HVAC units (Temperature Control)

To keep operations running smoothly, our trained experts and extensive dealer network are ready to create a power design that can be fully optimized for your application.

Battery Energy Storage System

Combine traditional mobile rental power with a new mobile battery energy storage system equipped to provide uninterrupted power for a wide range of applications.

Air Compressors

Air compressors are often referred to as the “fourth utility,” joining electricity, natural gas and water as an essential service in most industrial and commercial facilities.

Temperature Control

Air conditioning, humidity control, heating, and air handling systems are just some of the vital requirements needed for residential, commercial, industrial and governmental facilities.

Expert Guidance & Support

From fast installation and easy setup to site survey quality, the power systems specialists at our dealership are standing by to ensure your rental solutions are effective and save you time.

To learn more, contact the power systems experts at our dealership.



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www.clevelandbrothers.com

CUSTOM POWER ENCLOSURES & CONTAINERS

Protect for all environments and requirements

Caterpillar designs and manufactures enclosures specifically for Cat® generator sets, from standard ISO containers to oversized structures designed to meet your exacting requirements. The following considerations provide information about the most popular enclosure and container models.

Our experienced engineers work with you to design a packaging solution tailored to your unique specifications. Whether you need protection for your Cat generator set from the sub-zero temperatures of the Arctic Circle or the blistering heat of the Sahara, our innovative enclosure designs will ensure robust protection from the harshest environments with optimum shipping and space considerations.

- 1. ISO container:** Container dimensions to ISO standard or designed to order.
- 2. Noise levels:** Sound attenuation levels not limited to 65 dBA @ 1 m.
- 3. CE certified with CSC plating:** Containers and all components meet CE Standards.
- 4. Fully accessible:** Dedicated service doors facilitate easy access to all major components during routine maintenance.
- 5. RAL 9001 paint finish:** High performance 2-pack primer / finish paint system provides weather resistant, high-gloss finish.
- 6. Non-slip flooring:** Fully metal flooring with non-slip heavy-duty surface paint.
- 7. Fully bundled DEFRA compliant flooring:** Fully bundled floor with capacity for all engine oil, coolant and on-board fuels fully compliant with UK DEFRA requirements.

8. Robust design: Protection from the elements in even the harshest environments.

- Enclosures generally constructed from structural steel to EN10025, galvanized / electro-zinc coated steel sheet to EN10346 and EN10152.
- All structural steel shot blasted to SA2.5 before paint application.
- All welding carried out in accordance with third-party approved procedures in conjunction with appropriate in-house, non-destructive test procedures. 

FLEXIBILITY IN DESIGN

- ▶ Unique to the Cat® enclosure range is the “energy container.” This innovative design features a four-foot outlet extension that folds inside the container for shipping, unfolding at site to serve as a vertical discharge chamber upon commissioning.
- ▶ This functionality means you can select the Cat C32 generator set as a standby power solution within a compact enclosure without compromising on power output of up to 1,500 kVA. No need to sacrifice space for power.
- ▶ The highly skilled Caterpillar team will support you through every aspect of your power journey. Working with you to gain a full appreciation of your power needs, our sales support, design engineers, and project managers will guide you through the specification, design and build of your tailored power solution and enclosure.

To learn more about the advantages of Cat enclosures and the full product range, visit www.cat.com/custompowersolutions





POWERING RURAL RESILIENCE

Cat® GC generators maintain uptime across broad service territory

North Kootenai Water & Sewer District is anything but a typical rural utility.

Serving more than 13,000 residents across roughly 200 square miles in northern Idaho, the district oversees a far-flung patchwork of infrastructure that stretches across mountains, valleys and lakeside communities.

Its network includes 15 separate water systems—two supplied by surface water treatment and 13 drawing from groundwater wells—along with a dedicated wastewater treatment operation at Gozzer Ranch, an exclusive residential enclave overlooking Lake Coeur d’Alene.

That kind of geography would test even the largest municipal utility. For North Kootenai, it’s simply the nature of the territory it serves.

“It’s hard to explain to people until they actually spend a day with us,” says Dave Duthie, operations supervisor for North Kootenai Water & Sewer District. “You’re north, then west, then east or south—we cover a wide area.”

Unlike more traditional water districts that serve a contiguous footprint, North Kootenai’s territory is scattered and highly decentralized. That means maintaining safe drinking water, dependable wastewater treatment, and systemwide reliability requires a carefully coordinated strategy built around redundancy, remote visibility and dependable backup power.

For a district with just 17 total employees—12 of them in

field operations—that challenge is magnified.

“We make it to each location at least once, sometimes twice a week,” Duthie says. “And we remotely monitor everything 24/7 with our SCADA system. We have an on-call person every week, so if any alarms come in from any one of our sites, we’re notified immediately.”

That constant vigilance is essential because North Kootenai’s mission goes far beyond convenience. Reliable water and wastewater services are fundamental to public health and community trust. Whether it’s delivering clean water to homes, maintaining pressure in remote parts of the system or ensuring wastewater is properly treated and recycled, uninterrupted operation is non-negotiable.

Increased urbanization in North Idaho has led to higher demands for clean drinking water and effective wastewater treatment. As the district expands, the infrastructure must

CUSTOMER PROFILE

North Kootenai Water & Sewer District

Location: Rathdrum, Idaho

Cat® Equipment: C4.4, C9, C13, C15, D40, D40GC (4), DG40, D50, D80, D80GC, D100, DG100, D200 (2), D250GC, D400GC, Engine only: 3126E, 3406B

Cat Dealer: Western States

adapt to serve larger populations.

The district's water system reflects the complex nature of its service area. Two of its systems rely on surface water treatment, drawing from lakes and using a rapid and slow sand filtration process to produce potable water. Water is screened, treated with coagulants, filtered through media, disinfected and then pumped or gravity-fed into the distribution system. The remaining systems draw from groundwater wells, which also require dependable pumping, monitoring and storage.

On the wastewater side, North Kootenai uses membrane bioreactor (MBR) technology—an advanced treatment process that combines biological treatment with membrane filtration. The system produces high-quality effluent that is treated to Class A standards and reused for irrigation, helping the district support sustainability goals, while protecting local water resources.

All of those processes depend heavily on a consistent, reliable supply of energy.

Constant power required

Pumping is one of the district's largest energy demands. Raw water must then be moved from source to treatment. Treated water must be distributed across long distances and varied elevations. Booster stations maintain system pressure. Wastewater must be collected, processed and moved through treatment stages that rely on many pumps, blowers, membranes and controls.

Any loss of power can quickly become a public health issue. That's why North Kootenai has made standby power generation a core part of its operational resilience strategy.

A variety of 18 Cat® generator sets is installed at critical district facilities to ensure uninterrupted service during utility

“As an operations supervisor, having these backup generators gives me such a relief at night when we’re in a big storm, I don’t have to have operators in the field, in harm’s way, during big storms. It’s fantastic. To me, that’s probably better than any of the other operational reasons.”

DAVE DUTHIE, OPERATIONS SUPERVISOR
North Kootenai Water & Sewer District



outages, storms and emergencies. All but two of the units are diesel-powered. Seven Cat GC generators support everything from water treatment to wastewater operations and pump stations, plus a lone booster site.

“The decision to install Cat generator sets was driven by the need for reliable backup power and a commitment to maintaining operational continuity,” said district manager Paul Tucker. “In the event of natural disasters or other emergencies—such as flooding or severe storms—generators enable facilities to continue functioning and maintain service continuity,” he said. “This is especially important for responding quickly to emergencies and protecting public health.

“The critical nature of our operations means that consistent power supply is necessary to ensure treatment processes run

Continued on page 14





smoothly and effectively,” Tucker adds. “Our Cat generators ensure that uninterrupted power is available for essential pumping operations that transport both raw water to the treatment facility and treated water to distribution systems.”

When grid power is lost, the Cat gensets restore power within seconds—fast enough to keep pumps running, maintain pressure, and sustain treatment processes while preserving regulatory compliance.

That fast response is especially important in a region where severe weather can strike with little warning.

Earlier this year, North Kootenai weathered several storms, including high-wind events that brought down trees and power lines. In the past, those conditions might have required operators to head into the field in dangerous conditions to respond manually. Today, backup generation has totally changed that equation.

Duthie says the district’s standby power strategy has transformed both operations and employee safety.

Remote monitoring with Cat Connect

One of the ways North Kootenai maximizes the value of its standby generation fleet is its embrace of connected technology.

Also known as Remote Asset Monitoring (RAM), the district uses Cat Connect to supplement its SCADA system, giving operators another layer of insight into generator performance. While SCADA provides alarms tied directly

into the district’s broader monitoring platform, Cat Connect adds detailed equipment data—such as fuel levels, equipment status and genset performance trends.

“Cat Connect supplements our SCADA system,” Duthie says. “It gives us much more detail with the generators, such as fuel levels and condition monitoring.”

That visibility matters when facilities are spread across such a wide territory. Instead of waiting for problems to escalate, North Kootenai monitors conditions proactively and responds before small issues become bigger ones.

Using an app in his cell phone, journeyman electrician Dustin Veneklasen reviews Cat Connect data on a regular basis, while generator alarms—whether a fail-to-start alert, outage notice or another issue—feed directly into the same SCADA network used to monitor reservoirs, pressures and treatment performance.

Sizing it up

North Kootenai relies on Cat SpecSizer as an early step in its standby power planning process. SpecSizer is a free, web-based generator sizing tool that helps select the optimal generator set based on specific power requirements, load types and operating conditions. The tool helps the district validate load requirements and identify appropriately sized equipment for each site.

“That’s our first step once we select a location for a generator,” Duthie says. “Dustin does the sizing first with

a load calculation, and then he goes on Cat SpecSizer and inputs everything just to validate and have an additional point of reference.”

For North Kootenai, Cat SpecSizer serves as both a design aid and a communication bridge with its Cat dealer. “It gives us good numbers and helps our Cat dealer see what we’re trying to do so we get the right size,” Duthie adds.

Dealer support

That collaborative process has been critical to the district’s long-term success.

Western States Cat has been deeply involved in helping North Kootenai size, commission and integrate its generator systems. After North Kootenai uses Cat SpecSizer to establish a baseline, dealer experts work with the district to confirm the right equipment for each application.

That partnership extends well beyond the initial sale.

Western States supports annual preventive maintenance through a Customer Value Agreement, helping the district stay ahead of wear items and future repair needs. The dealer also provides budgeting insights by identifying components that may need attention down the road, which is valuable information for a public utility managing taxpayer resources.

Prompt service also stands out. According to Tucker, Western States service coordinator Marena Halstead has

been highly responsive when issues arise, quickly providing estimated technician arrival times and helping North Kootenai resolve issues efficiently. In many cases, district staff members work directly with dealer technicians on troubleshooting and diagnostics.

That level of support reinforces the district’s confidence—not just in the equipment, but in the overall system behind it.

For North Kootenai, reliable standby power has delivered measurable benefits: improved uptime, stronger emergency preparedness, reduced operational risk and greater confidence in meeting water quality and environmental obligations.

But for Duthie, one benefit stands above the rest.

“As an operations supervisor, having these backup generators gives me such a relief at night when we’re in a big storm,” he says. “I don’t have to have operators in the field in harm’s way during big storms. It’s fantastic. To me, that’s probably better than any of the other operational reasons.”

For a utility responsible for keeping critical services flowing across one of Idaho’s most unique and dispersed water utility districts, that peace of mind may be the most valuable backup system of all.

“It’s just nice knowing that your field staff is not out during a big storm, with trees and power lines coming down, or whatever the case may be,” Duthie says. “They’re home, safe with their families, and our sites are performing exactly the way they’re supposed to.” 





GAIN A COMPETITIVE EDGE

Genuine Cat® Parts Just a Click Away

Purpose-Built Components Protect Engine Performance

Using the right parts is crucial for reaping the full benefits that Cat® equipment can provide. This is especially true for key consumables, such as air filters and spark plugs, that are engineered to meet the exact standards and requirements of your Cat engines.

Receiving the Right Parts On-Time

Time is money in the oilfield and it's essential for operators to have the correct parts on hand when needed to avoid nonproductive time (NPT). **Parts.Cat.Com** fulfills this important need, providing immediate access to more than 1.4 million parts that assure guaranteed compatibility, including Cat Ultra High Efficiency (UHE) engine air filters and spark plugs.

What Are the Benefits of Using Genuine Cat Parts?

Part quality and fabrication directly impact performance and equipment longevity. Genuine Cat parts specifically engineered to optimize engine performance deliver compelling advantages:

- **Readiness:** Cat parts are engineered to function as a system, which helps optimize performance. They're built to exact tolerances and rigorously tested to ensure

dependability and durability while lowering total cost of ownership (TCO).

- **Accurate fit:** Using genuine Cat parts ensures a proper fit for reliable operation. Shop by model or serial number on **Parts.Cat.Com** to view compatible parts and streamline the ordering process.
- **Warranty:** New, genuine Cat components are covered against defects in material and workmanship by a 12-month limited warranty.¹
- **Convenience:** Ordering through **Parts.Cat.Com** provides the flexibility to shop available Cat dealer inventories regardless of site location. Free in-store pickup or convenient delivery options are available to help minimize downtime.
- **Expert support:** Connecting with highly trained experts across the global Cat dealer network is easy through **Parts.Cat.Com**. Maintenance crews can access operation and maintenance manuals, order histories and order tracking in real-time.
- **Cost savings:** Operators can further maximize cost savings by choosing Cat Reman components. Cat Reman only uses genuine Cat parts, and every component is disassembled, cleaned, inspected and

updated with critical engineering improvements and remanufactured with advanced techniques to deliver like-new performance. Operators not only save with solutions offered at 45-85% of the cost of new when they return their used core, but they're also protected by a same-as-new, 12-month limited warranty.

What's the Difference Between OEM Parts and Third-Party parts?

When it comes to equipment parts, quality and performance can vary from manufacturer to manufacturer—and that can have a direct impact on operational efficiency. For example, every engine requires air filters and spark plugs—parts that must be replaced, depending on operating environments, pressures and temperatures. Choosing air filters and spark plugs that are optimized for an engine is critical to avoid NPT and help operators realize a lower total cost of ownership (TOC).

Cat UHE air filters, for example, are engineered to outperform conventional air filters and can help prolong piston ring life by 50%, as verified by independent lab testing.² Designed for extreme applications where dirt, dust and other contaminants are common, Cat UHE filters help prevent premature engine damage by protecting critical components from damaging debris. This contributes to a lower operating cost.

No other engine air filter outperforms a Cat UHE air filter when it comes to:

- Capturing damaging debris from intake air
- Protecting critical engine components
- Providing the lowest operating cost

Cat equipment is designed to work in extreme applications where dirt, dust and other contaminants are common. Dust

is abrasive and when contained in the intake air required for combustion, it will cause premature damage and wear to engine components. This premature wear and resulting damage has a cost associated with it.

It is important to remember the filter with the lowest price isn't always the lowest cost option. A filter that provides better protection can significantly reduce your costs by extending engine life and minimizing the costs associated with a repair or a rebuild.

In order to reduce your overall operating cost, it's necessary to consider all of the costs associated with your engine air filter:

- **Filter Costs:** How much do you have to pay for the filter, and how often do you have to replace it?
- **Repair & Rebuild Costs:** (Parts, Labor & Downtime) How well does the filter protect your engine?

Similarly, Cat spark plugs are also designed to enhance efficiency and optimize runtime. They're easy to remove and install, which minimizes downtime during maintenance intervals. These advantages reduce costs and support higher productivity.

As Cat engines are engineered to be rebuilt to optimize TCO, choosing genuine Cat parts—new or through Cat Reman—helps reduce your equipment investment. With **Parts.Cat.Com**, it's easier and faster than ever to access genuine, quality Cat parts. 

¹Warranty can vary by model and application; limitations apply. For complete details about the applicable Caterpillar Limited Warranty, contact your authorized Cat dealer.

²Cat.com. Protection for your engine and your bottom line. <https://caterpillar.scene7.com/is/content/Caterpillar/CM20170814-44848-53812>.





MOVING FREIGHT ON INLAND WATERWAYS

Powering Towboats that Support the Nation

The mighty Mississippi River and America's interconnected inland waterways move more than 700 million tons of cargo annually—from sand and gravel to coal and petroleum products. At the heart of these marine highways are the hardworking towboats that push barges through challenging conditions day and night.

Six Cat® dealers that support the vessel operators servicing these critical rivers offer sage guidance for increasing uptime on these vital waterways.

Upper Mississippi and Midwest Region

Boyd Cat has served the inland waterways of Kentucky, southern Indiana, West Virginia and Ohio since 1913. Fabick Cat brings decades of experience supporting marine operations throughout Missouri, Illinois, Wisconsin and Michigan's inland waterways, ensuring vessels maintain peak performance along the upper Mississippi River system.

Southern and Gulf Coast Region

Louisiana Cat traces its roots to 1933 and boasts over 80 years of marine-power experience across offshore service vessels, passenger ships and inland push boats. Mustang Cat serves the

Texas inland waterways, supporting towboat operators along the Gulf Intracoastal Waterway and river systems throughout south and southeast Texas.

Puckett Power Systems operates multiple branches throughout central and southern Mississippi, providing marine electric power, and industrial engines. Thompson Tractor provides comprehensive marine support across Alabama and northwest Florida, offering critical services to operators navigating the Tennessee-Tombigbee Waterway and connecting river systems.

Each Cat dealer is heavily engaged in supporting towboat operators who traverse the United States' rivers each day, and not only understand the nuances of each body of water but also how to help reduce vessel downtime.

Cat C32B reduces maintenance intervals

Installing the Cat C32B marine engine helps increase vessel availability. This power solution is particularly compelling for towboat operators as it increases time between overhauls by up to 50%¹ in certain operating conditions. Reduced maintenance intervals translate directly into dollars saved and increased charter availability.

The C32B provides key advantages that address the unique demands of inland waterway operations. It delivers the low-end torque towboats need to move heavy loads through strong river currents and maneuver tight channels, while complying with regulatory requirements. It also provides the robust durability necessary to support nearly continuous operational cycles.

C32B solutions can be equipped with remote health monitoring capabilities to track engine status and provide alarms in real-time, enabling operators to plan service intervals strategically. This predictive maintenance capability helps operators schedule repairs during planned downtime to avoid emergency scenarios. The C32B's lower fuel consumption helps significantly reduce operating costs, providing a crucial advantage given the long hours and distances towboats typically cover².

Additionally, as regulations evolve, the C32B enables operators to utilize biofuels when required.

Meeting Modern Requirements

In addition to the uptime and cost advantages the C32B provides³, the comprehensive Cat dealer network provides competitive advantages for America's towboat operators. Boyd Cat, Fabick Cat, Louisiana Cat, Mustang Cat, Puckett Power and Thompson Tractor are available 24/7 to ensure parts availability and expert service. This network is especially valuable given the vast geography of inland waterway operations, where vessels can be hundreds of miles from a home port.

The C32B represents a significant strategic opportunity for towboat operators seeking to upgrade a fleet or repower existing vessels. The combination of increased reliability, durability, reduced maintenance costs⁴ and the proven support of the Cat dealer network helps operators to remain competitive. 

^{1,2,3,4}Compared to the C32.



CAT® C32B PERFORMANCE

The Cat® C32B engine is a powerful and versatile solution for commercial and high-performance applications, providing a rated power range of 1200 to 1700 bhp. It meets stringent emissions standards, including IMO II, IMO II/III, and U.S. EPA Tier 4. The Cat C32B engine has an optimized design to enhance power density, deliver more power without significantly increasing size or weight. Additionally, its improved durability reduces maintenance needs and extends operational life, thereby reducing the total cost of ownership. This combination of high-power output, strict emissions compliance, and cost-effective durability makes the Cat C32B engine an excellent choice.

POWER DENSITY

The enhanced engine design boosts cylinder pressure and power output, ideally suited for your most demanding commercial marine applications. Users benefit from more horsepower and enhanced power output, showcasing advancements in engineering for better performance.

- ▶ 1200 and 1300 hhp ratings now in A-Tier. This is a 20 to 30% power increase from a previous Cat C32 A-minus rating.
- ▶ 1450 hp rating elevated to B-Tier 20% power increase from previous Cat C32 B-minus rating.
- ▶ 1700 hp rating increased 18% from previous C-minus for the Cat C32.

INTEGRATION

Airless aftertreatment design simplifies vessel installation. The new design eliminates the need for expensive air compressors and reduces the cost of the SCR system.

CERTIFIED EMISSIONS:

- ▶ U.S. EPA Tier 4 and IMO II in approved emission zones
- ▶ IMO III solution is switchable to IMO II in approved emission zones

AIRLESS AFTERTREATMENT SOLUTION

- ▶ Eliminates expensive air compressor on vessel
- ▶ Less vessel maintenance to air compressors
- ▶ Less weight due to air compressor size

WALL MOUNTED DOSING CABINET

- ▶ Improved Serviceability: Easier access for maintenance and repairs
- ▶ Space Optimizer: Frees up valuable floor space in engine room
- ▶ Enhanced Mobility: Facilitates better movement and workflow in the engine room

DURABILITY

Improved core engine component design delivers a more robust, high-performance engine when compared to previous models which may lower your total cost of ownership. Core components enhanced include:

- ▶ Engine block
- ▶ Cylinder heads
- ▶ Crankshaft
- ▶ Connecting rods
- ▶ Main and connecting rod bearings

RUNREADY
1720 DOLPHIN DRIVE SUITE D
WAUKESHA, WI 53186-1489

CLEVELAND BROTHERS COMMERCIAL ENGINE LOCATIONS

Clarksburg, WV
6286 West Veterans
Memorial Highway
304-842-2222

Cranberry Twp.
11 Progress Ave.
724-776-7660

Erie
3950 Depot Road
814-898-3388

Lantz Corners
3105 US-219
814-778-5250

Manada Hill
336 Fairville Ave.
717-526-2121

Mansfield
18516 US-6
570-662-7171

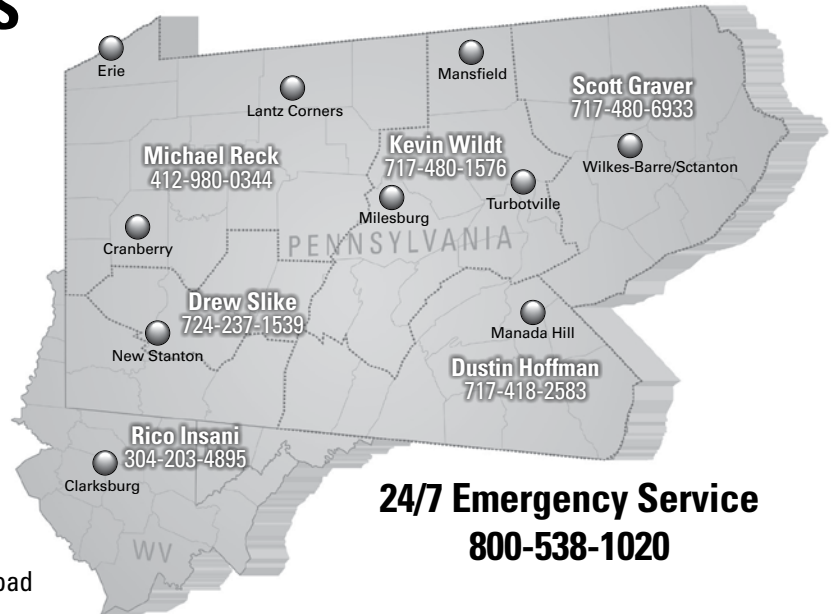
Milesburg
1025 N Eagle Valley Road
814-355-3500

New Stanton
190 Earnhardt Drive
724-861-6080

Turbotville
190 Cleveland Brothers Road
570-538-2551

Wilkes-Barre/Scranton
441 PA-315
800-922-8630

Contact Your Local Parts & Service Sales Rep:



24/7 Emergency Service
800-538-1020

**Cleveland
Brothers**



www.ClevelandBrothers.com/Power

NEW G3500K SERIES GAS GENSETS

If you're looking for reliable, quick-responding, high-efficiency prime or continuous power, choose the new Cat® G3500K series gas gensets. They're designed for reliable performance in a wide range of applications and demanding environments including high altitudes and higher ambient temperatures.

The first product in the series, the G3520K HR (High Response) is available now with four additional models to be available during 2026. Rated at 2.5 MW of continuous power and available in 50 and 60 Hz packages, the G3520K starts quickly and accepts high loads quickly, ramping up to 100% faster than previous models.

To learn more about the benefits of the new G3500K series and its suitability for your application, contact the power systems experts at our dealership.

