

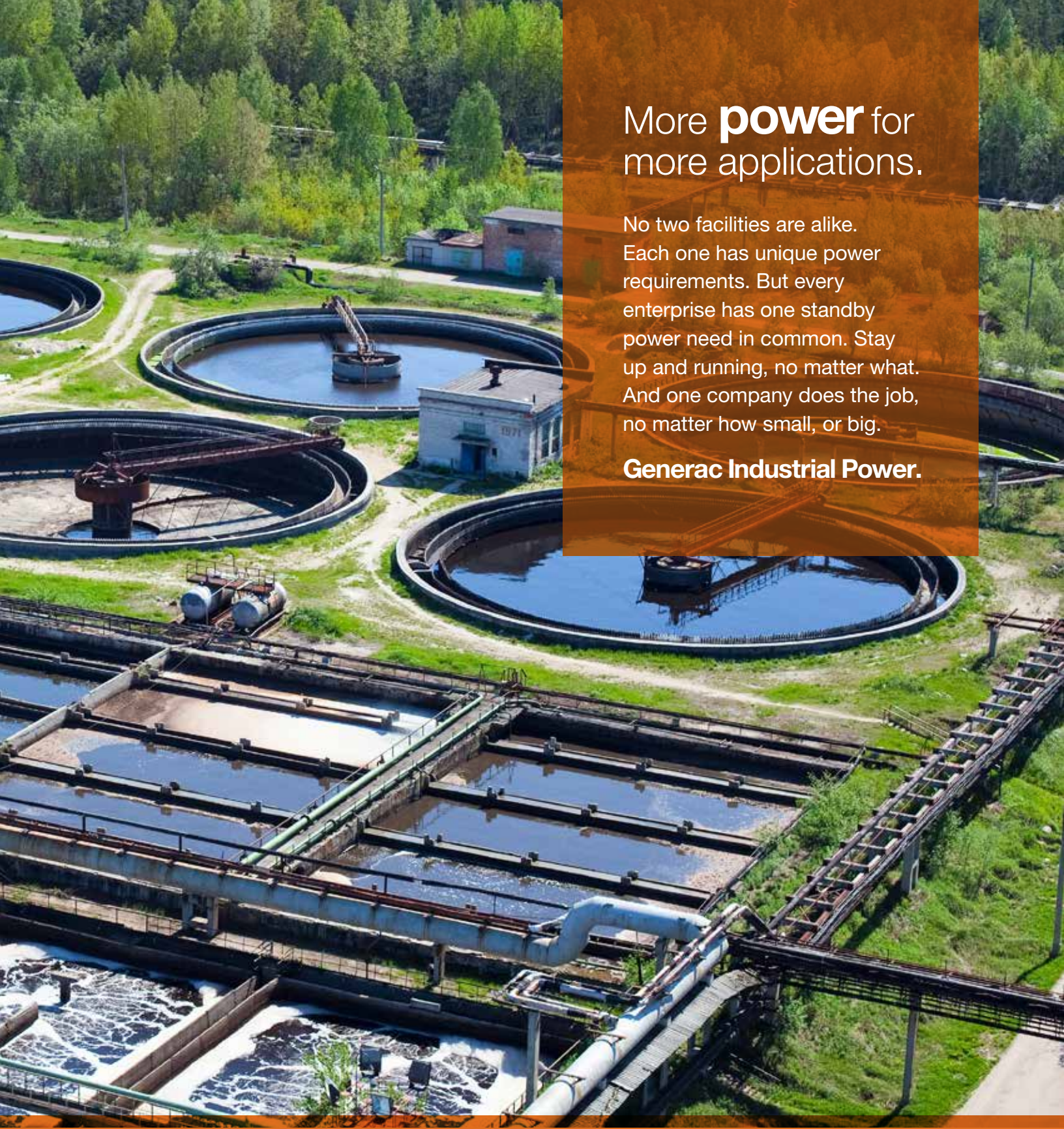
Modular Power Systems (MPS) 750 kW–2 MW



ENHANCED RELIABILITY. REDUCED COMPLEXITY.

GENERAC® | **INDUSTRIAL
POWER**





More **power** for
more applications.

No two facilities are alike. Each one has unique power requirements. But every enterprise has one standby power need in common. Stay up and running, no matter what. And one company does the job, no matter how small, or big.

Generac Industrial Power.

GENERAC® | **INDUSTRIAL
POWER**



We call it integrated paralleling. You'll call it **peace-of-mind.**

A Generac MPS solution is the choice to deliver power for any application where failure is not an option. This industry leading approach to paralleling provides significant advantages over the historical methods.

The Generac solution features:

- An integrated controller concept that eliminates complicated 3rd party paralleling control schemes
- Integrated on-generator switching eliminates the need for expensive and space consuming paralleling switchgear
- Load management through an optional factory supplied system controller provides an integrated approach to system sequencing
- Single source responsibility for all generator paralleling functions
- No systemic failure modes – designed to work with no functioning communications or load share lines
- Fully tested at our factory ensures unsurpassed peace of mind

The MPS solution also offers unsurpassed system scalability. The MPS approach does not require dedicated switchgear sections for growth. Future expansion generators simply tie directly to the generator bus. Because all of the paralleling is already built into the generator, the MPS system inherently has greater flexibility for growth, requires less electrical room space, and reduces initial capital cost.

Generac Industrial Power offers an expansive product lineup from 15 kW through 2 MW single generators, and as much as 100 MW utilizing our innovative Modular Power System (MPS) technology. Check out additional brochures at www.generac.com/industrial.

Best in class paralleling.

Reliability is core to the Generac Modular Power System (MPS) concept. This approach utilizes innovative integrated paralleling technology to create the industry's most reliable generators. Compared to historical paralleling methods, MPS provides a simpler, more scalable solution with maximum reliability – all at a lower cost.

The integrated controller approach.

Now one controller that's mounted on each generator consolidates all of the critical paralleling functions providing maximum system reliability. It's engineered to prevent systemic, single-point failures often seen with other approaches in the market. The Generac Integrated Control concept also reduces installation hassles and eliminates complicated and custom PLC programming - saving you time and simplifying system set up.

The Integrated Generator Control concept is the basis of the modular power system category. It includes everything you need to control paralleling – synchronizer, speed governor biasing, automatic voltage regulator biasing, communications, load sharing, metering, protective relaying, operator interface and even custom logic capabilities. Everything that until now required several controllers to provide.

This integrated controller platform is extremely flexible and allows you to take advantage of:

- Expandable I/O modules – analog and discrete
- Advanced communication capabilities – onsite and via web
- Supports low and medium voltage paralleling
- Custom event and alarm capabilities to site specific needs - motorized louvers, remote fuel tanks, day tanks, remote breakers, etc.
- Custom logic capabilities providing maximum application flexibility



Staying connected.

The controller platform and associated communication module provides easy access using Modbus across serial or Ethernet. It supports connections to multiple users and devices. You can remotely monitor the MPS system via a building management system or through factory provided user interface software. You can receive emails with status updates and diagnostics. Plus, communicate directly to the generator from any mobile device across the internet.

More convenient access to the MPS system means greater peace of mind.

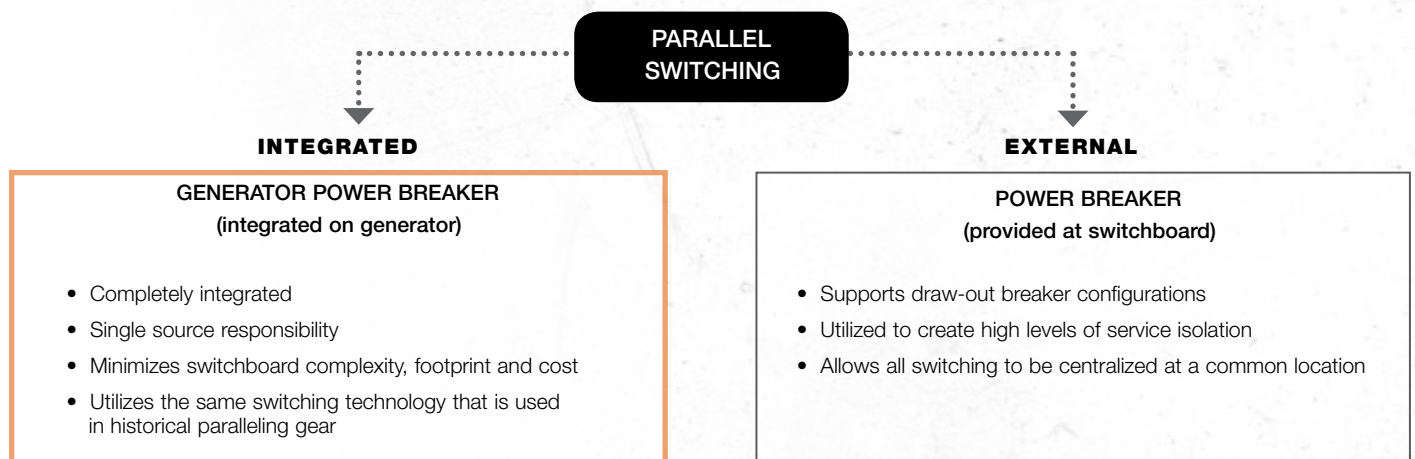


What's the right MPS strategy for your application?

In a third-party switchgear approach, the generator paralleling is often controlled by load share modules and PLC equipment in the gear. Our MPS solution utilizes an integrated paralleling design concept which provides flexibility for the location of the switching and load sequencing.

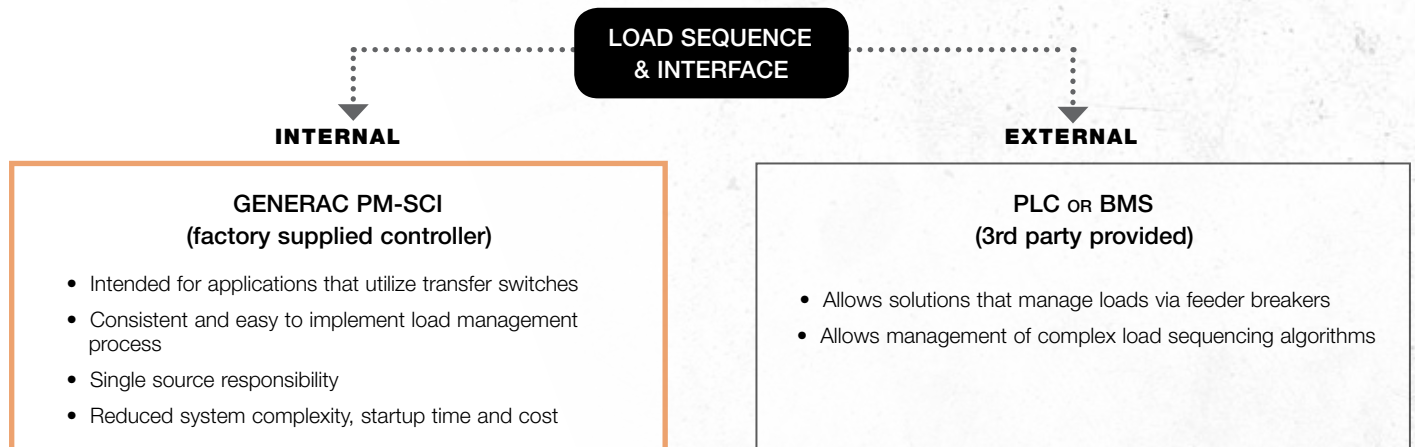
TWO PARALLEL SWITCHING OPTIONS

The parallel switching can be located internally to the generator, or integrated at the switchboard.



TWO LOAD SEQUENCING & INTERFACE OPTIONS

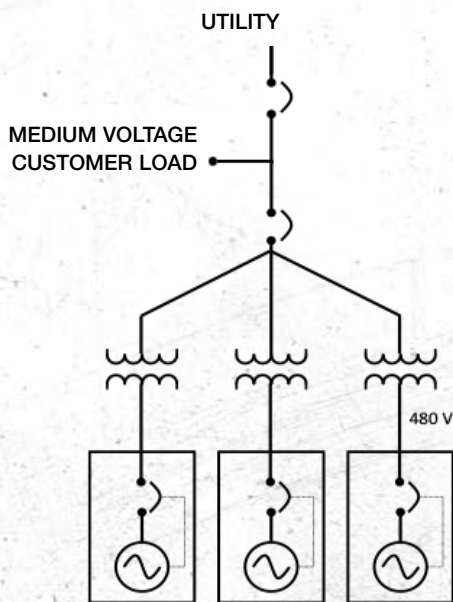
Load sequencing & interface can be integrated within the Generac PM-SCI, or externally provided within a custom PLC or BMS solution



SYSTEM SEQUENCING

The PowerManager® System Controller (PM-SCi) automates system sequencing via permissives and load shed contacts to multiple transfer switches. It is also designed to be the single point of remote communication to the entire MPS system. The PM-SCi includes a large touchscreen for monitoring the generators and system transfer switches through an interactive one-line diagram. The system also supports Modbus communications for Building Management integration.

- Designed for no single point system failures, the PM-SCi interaction with the generators only enhances functionality.
- It is not mission critical to generator paralleling which is directly managed by the integrated generator controller.
- If communications go down the generator system stays up because Generac implements a hardwired backup approach. Each generator can still receive start signals and load sequencing can be managed through human intervention or an optional backup load sequencer.



MEDIUM VOLTAGE

Medium voltage applications are often specified with a medium voltage alternator and ANSI C37.20.2 gear. However, many medium voltage systems can benefit from an integrated paralleling concept. By paralleling on the low voltage side and feeding one or multiple transformers, various system advantages can be realized:

- Facility staff are typically more comfortable interacting with low voltage generators
- Low voltage equipment is much easier and quicker to source
- This approach supports the integration of low voltage rental equipment when needed
- No medium voltage paralleling switchgear sections are required resulting in a smaller footprint and significant cost savings

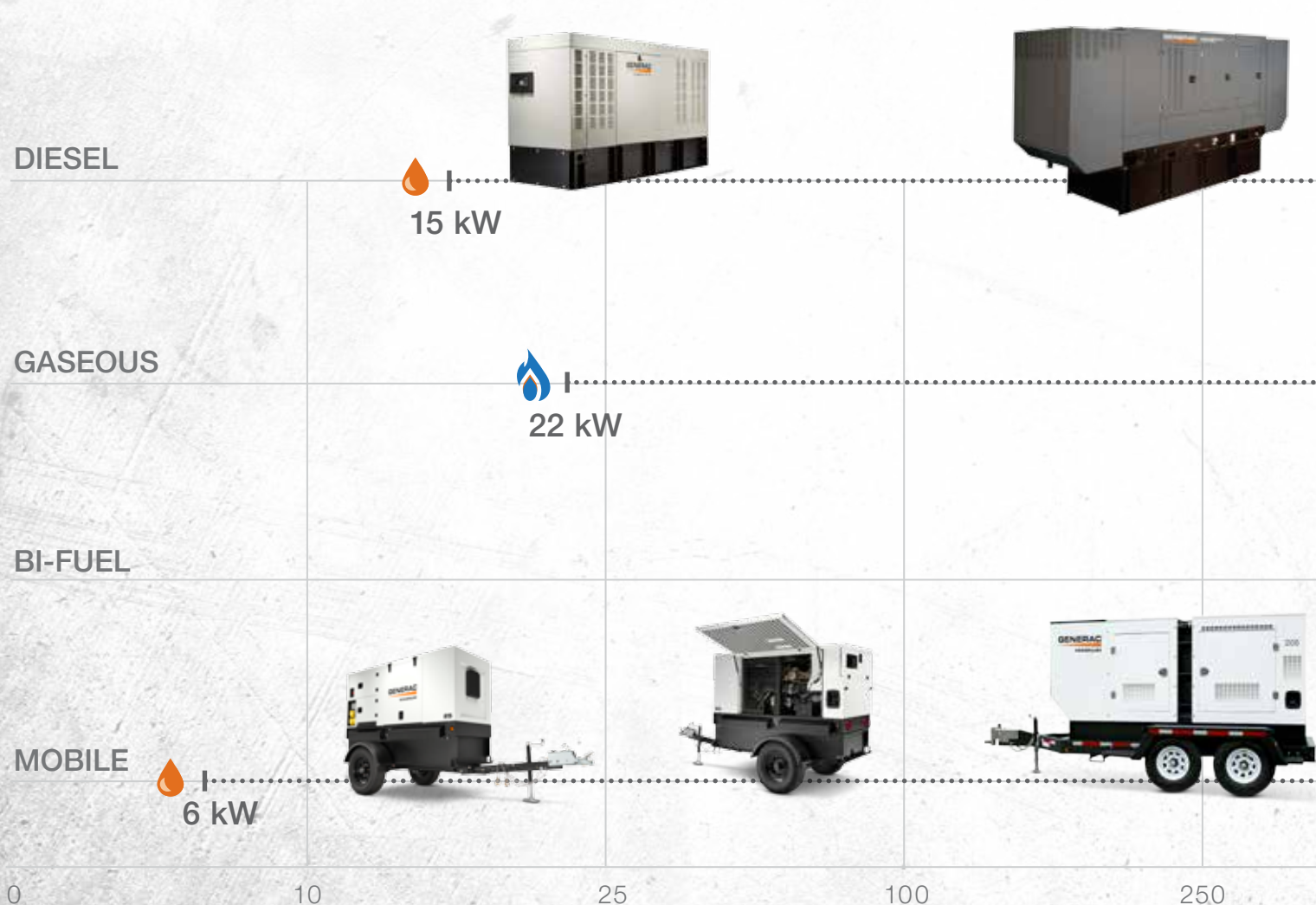
One of the largest suppliers in the industry.

No matter what you need standby power for, whether to keep a hospital operating, a data center functioning or a factory producing, count on Generac Industrial Power to provide the right product to meet your demands. With our newly expanded product line, you'll find the reliability, consistency and flexibility to handle any power need.

Diesel

The Traditional Choice for Standby Power

Diesel-fueled generators are an efficient choice for high kW applications, as well as for facilities where code requirements call for on-site fuel storage, like hospitals and 911 call centers. To provide the best possible diesel-fueled standby power solutions, Generac identifies and prequalifies diesel engines proven in real-world applications under adverse conditions. Then we work hand-in-hand with best-in-class diesel engine manufacturers to optimize designs specifically to meet Generac requirements.



Natural Gas

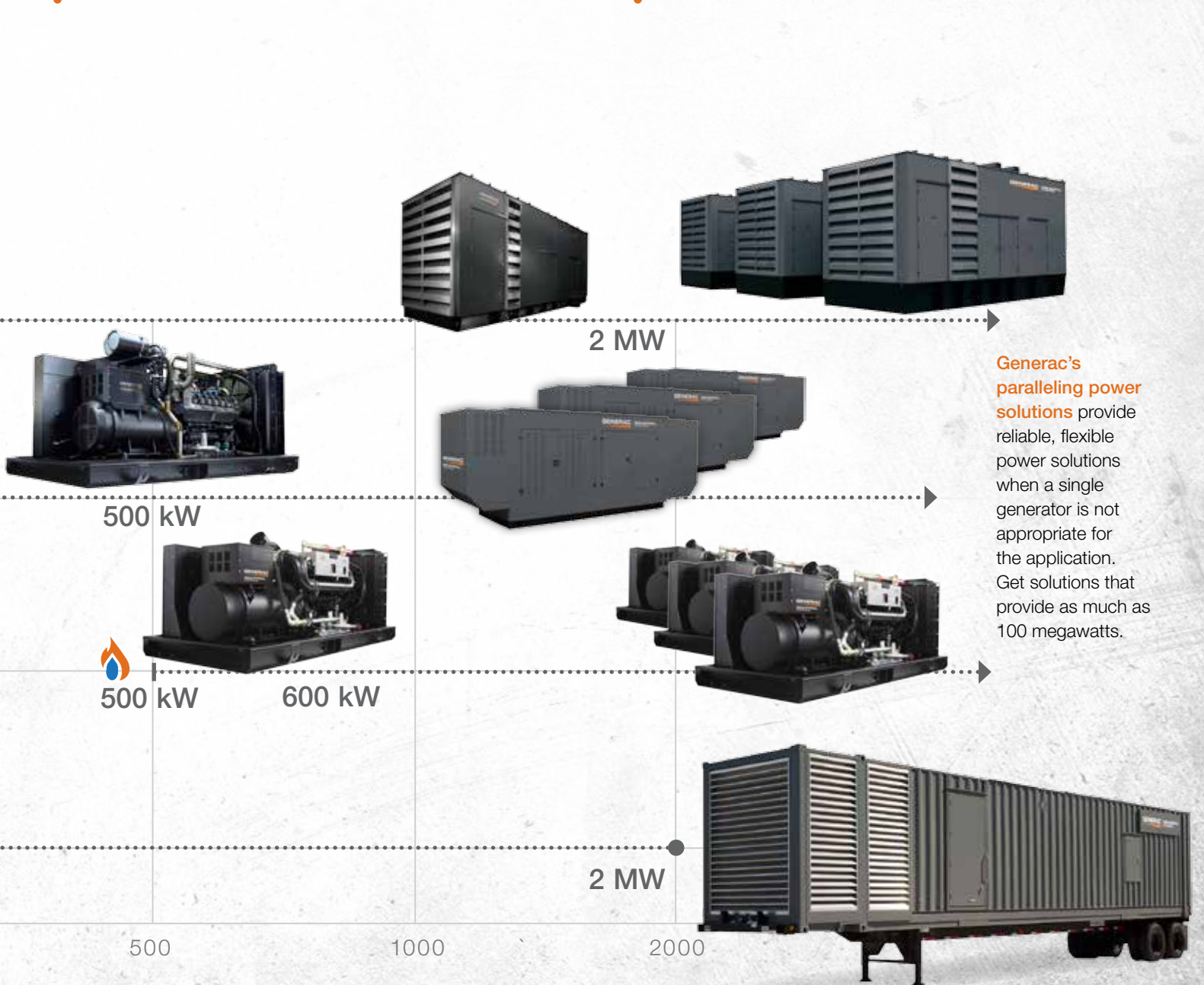
The Smartest Fuel Choice

- Long Running Times: Because natural gas is supplied by a utility, refueling is not an issue.
- Environmentally Friendly: Natural gas-fueled engines emit fewer nitrogen oxides and particulate matter, while also avoiding the fuel containment, spillage, and environmental concerns associated with fuel storage.
- Fuel Reliability: With natural gas, there's no onsite fuel storage or ongoing maintenance required in order to keep a clean and reliable supply of fuel.

Bi-Fuel

The Only True Bi-fuel Solution.

Generac Bi-Fuel generators start on diesel fuel and add natural gas as load is applied, until the unit runs primarily on natural gas. Unlike practically every other bi-fuel solution on the market, Generac's Bi-Fuel generators are fully integrated solutions. That means every fuel train component, every sensor, every actuator is specifically designed, engineered, and factory tested to work together. This gives Generac Bi-Fuel generators the added benefit of being EPA compliant from the factory—the only bi-fuel systems on the market that can make such a claim.





The right generator starts with the **right tools.**

With more than 57 years of power generation experience, Generac has built a tool set for electrical engineers and contractors to simplify and save time sizing, specifying or installing generators. The less time you spend up front, the sooner you'll have a generator on the job. No other manufacturer matches our capability to support generator design needs.

explore now at
www.generac.com/resourceCenter

RESOURCES

GENERAC CITY

Commercial, Industrial, and Mission Critical Facilities rely on Generac Industrial Power every day. Explore Generac City to learn more.

VIDEOS

Learn more about Generac Industrial Power and see how other businesses selected Generac standby products.

CASE STUDIES

Read how other businesses and industries selected their Generac standby power systems, and how the investment paid off for them through a vast collection of case studies.

POWERCONNECT NEWSLETTER

Subscribe to Generac Industrial Power's newsletter to receive regular updates on new products, case studies, and trends in standby power.

WHITEPAPERS

There are many issues to consider when selecting a standby power system. Generac has a number of white papers that can help you understand all the considerations.

NEWS & ARTICLES

Stay up-to-date on the latest news, trends, and product information related to power generation in this collection of industry articles.

TOOLS

POWER DESIGN PRO

The most powerful electrical and mechanical design and sizing tool on the market. Generac's Power Design Pro is a one stop solution center for the consulting engineer

SPECEXPERT BY MASTERSPEC

Helping to make spec writing easier, faster, and more accurate with SpecExpert by MasterSpec – an easy to use, guided program for creating specifications.

BIM DOCUMENTS

Create intelligent designs utilizing BIM. Download Generac Industrial Power product models which have undergone quality assurance testing to meet the strict requirements of Revit.

EDUCATION

POWER TRIP EXPERIENCE TOUR

Our 53' Power Trip Experience has been on the road for over a decade educating tens of thousands of engineers, and this year we're bringing new solutions, products and more trusted expertise right to your city.

PROFESSIONAL DEVELOPMENT SEMINAR SERIES (PDSS)

These courses are oriented towards practicing design, sales and consulting engineers involved in supplying emergency and standby power to industrial, commercial and mission critical facilities. Earn free CEU's and PDH's!

GENERAC INDUSTRIAL POWER ENGINEERING SYMPOSIUM

The Generac Industrial Power Engineering Symposium is a 3-day event designed for the practicing engineer to walk away with a better understanding of generator sizing, application, and code compliance.

PRODUCT INFORMATION

INDUSTRIAL PRODUCT WEBPAGES

Explore the full line of Generac Industrial Power products including gaseous, diesel, and bi-fuel generators in a variety of configurations and outputs.

SPEC SHEETS

Download any of Generac Industrial Power's product spec sheets all from one place.

BROCHURES & LITERATURE

View, save, or download brochures and literature to explore the full line of Generac Industrial Generators.

SALES, DESIGN AND SERVICE SUPPORT

Just as important as product quality and reliability is Generac Industrial Power's commitment to customer support, both before, during and after the purchase. Generac Industrial Distributors sell and service all Generac generators, controllers and switching systems. Our worldwide network has factory-trained and certified technicians with trusted expertise in system design, sizing, installation, commissioning, diagnostics and repairs.

- 24/7/365 emergency response
- Engineering and project management capabilities include professional and complete design and installation consultative services
- Dedicated strategic account support and regional or national program implementation programs

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For more information, such as
FAQ's, visit us online at
www.generac.com/industrial

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