

# **POWERCOMMAND<sup>®</sup>**

## **MICROGRID CONTROLLER**



**ALWAYS ON**



# INTEGRATED POWER SYSTEMS FOR ANY APPLICATION

With a 100-year-long track record of delivering leading power solutions globally, Cummins Power Generation pushes forward, exceeding any engineering expectation by offering complete integrated power systems.

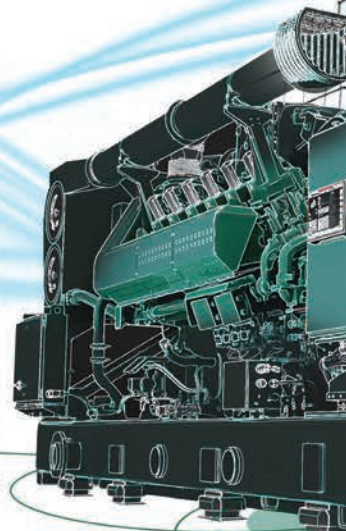
With smart digital controls, automatically working with various topologies and power sources, around any possible failures, Cummins offers complete power systems for any application. The result: a power system that delivers fail-safe power control with complete simplicity that is Always On.



MICROGRID CONTROLLER AND  
DISTRIBUTION BOARD



FUEL CELL



GENERATOR SET

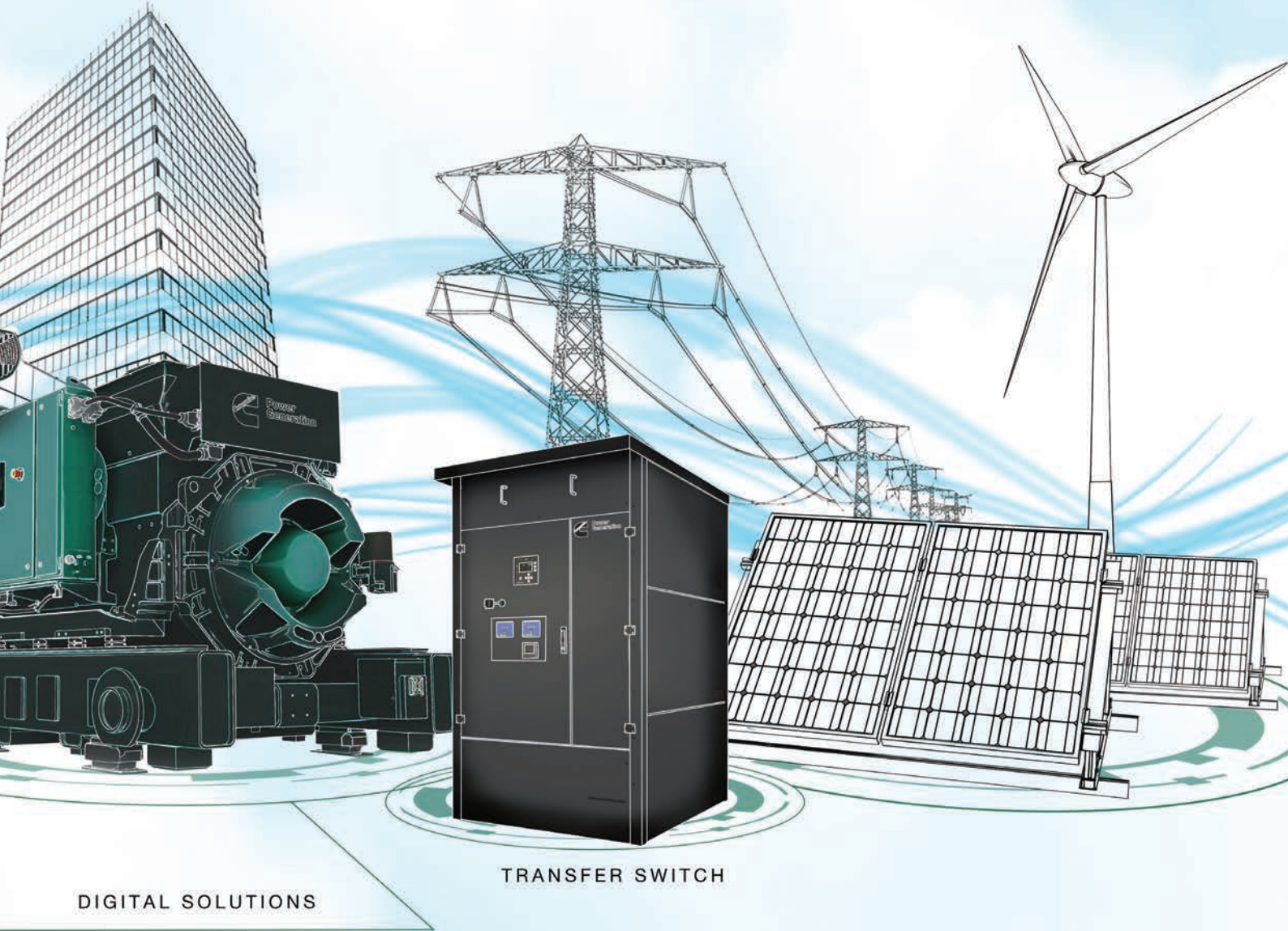
# MICROGRIDS

## CHANGING THE CONVERSATION TO THE POWER OF CHOICE

As more businesses focus on the sustainability of a complete power system and deploy renewable energy sources such as solar photovoltaics (PV), microgrids integrate these renewable sources into the energy infrastructure. As local energy systems, microgrids are capable of producing, storing and distributing energy to the facilities within the network.

For example, with the critical need for continuous, uninterrupted power, healthcare facilities implement microgrids as grid-connected solutions for reliable power. In the case of off-grid applications such as in remote mining sites or small island communities, microgrids offer not only critical power solutions but much needed cost and fuel savings.

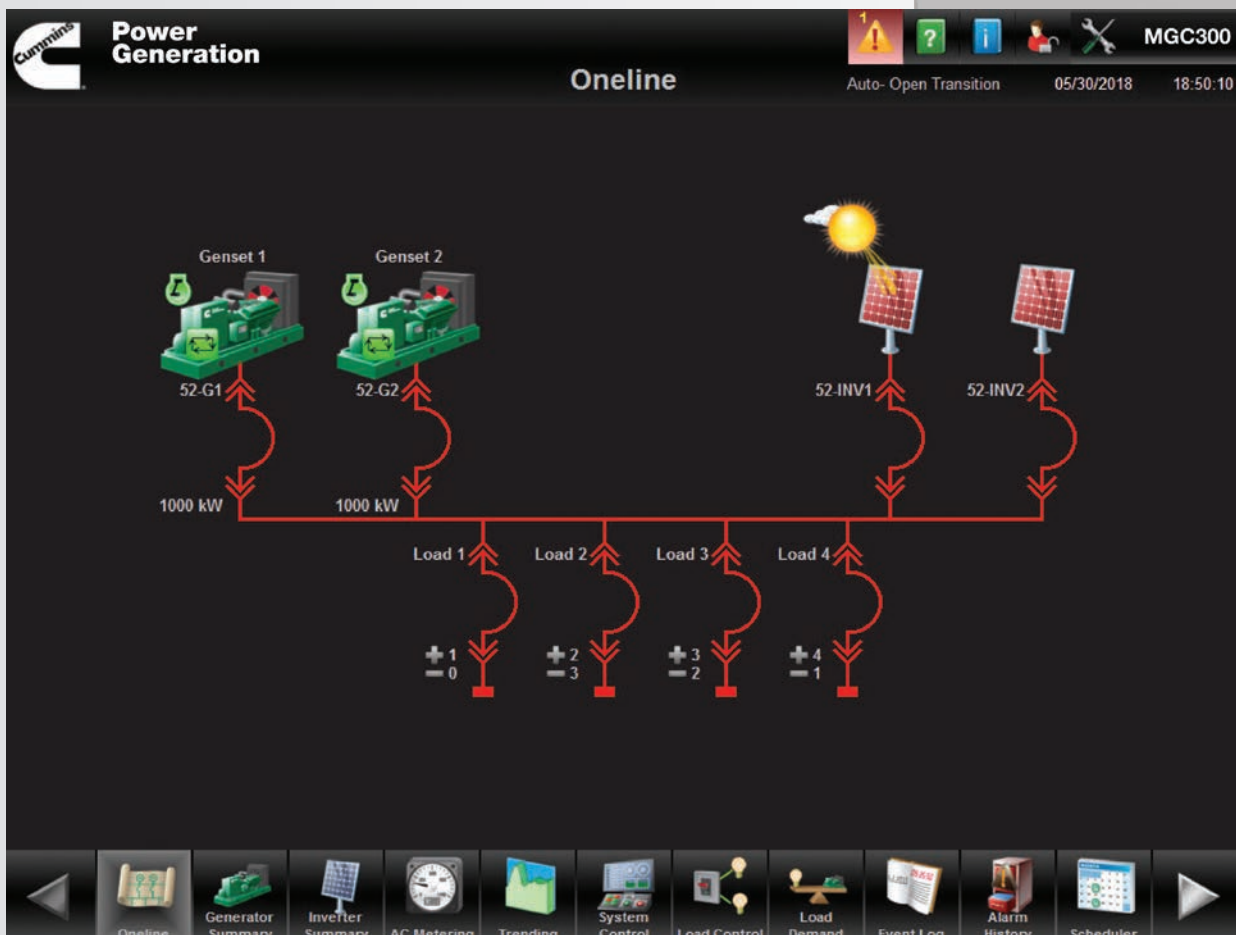
In markets such as these, customers are making decisions in their Distributed Energy Resource (DER) choices, to combine renewable energy sources such as solar PV or wind turbines with generator sets, energy storage systems, intelligent controls and management software for reliable power that is sustainable, reliable, cost effective, and Always On.



# MEETING ESSENTIAL POWER NEEDS WITH INTENSE ENGINEERING

## MGC300 AND MGC900

The design of the Microgrid Controller and launch of the MGC300 and MGC900 incorporate years of engineering expertise coupled with customer insights to provide scalable options for microgrid control globally. The Cummins PowerCommand® Microgrid Controller acts as the central power control for a variety of design implementation solutions with multiple configurations based on your job site design and budget needs.



# COMPLETE INTEGRATION

With a complete range of solutions tailored to various project sizes, the Cummins PowerCommand® Microgrid Controllers MGC300 and MGC900 offer:

## INTUITIVE USER INTERFACE EXPERIENCE:

- Single interface for control and monitoring of the entire microgrid system, including generators, PV, wind, battery storage, fuel cells, and utility
- Animated one-line diagram configured for each specific project
- Complete system real-time information
- Detailed information screen for each system asset with intuitive touchscreen navigation
- Four access levels for optimal security: Operator, Guest, Technician, and Manager

## POWER OPTIMIZATION:

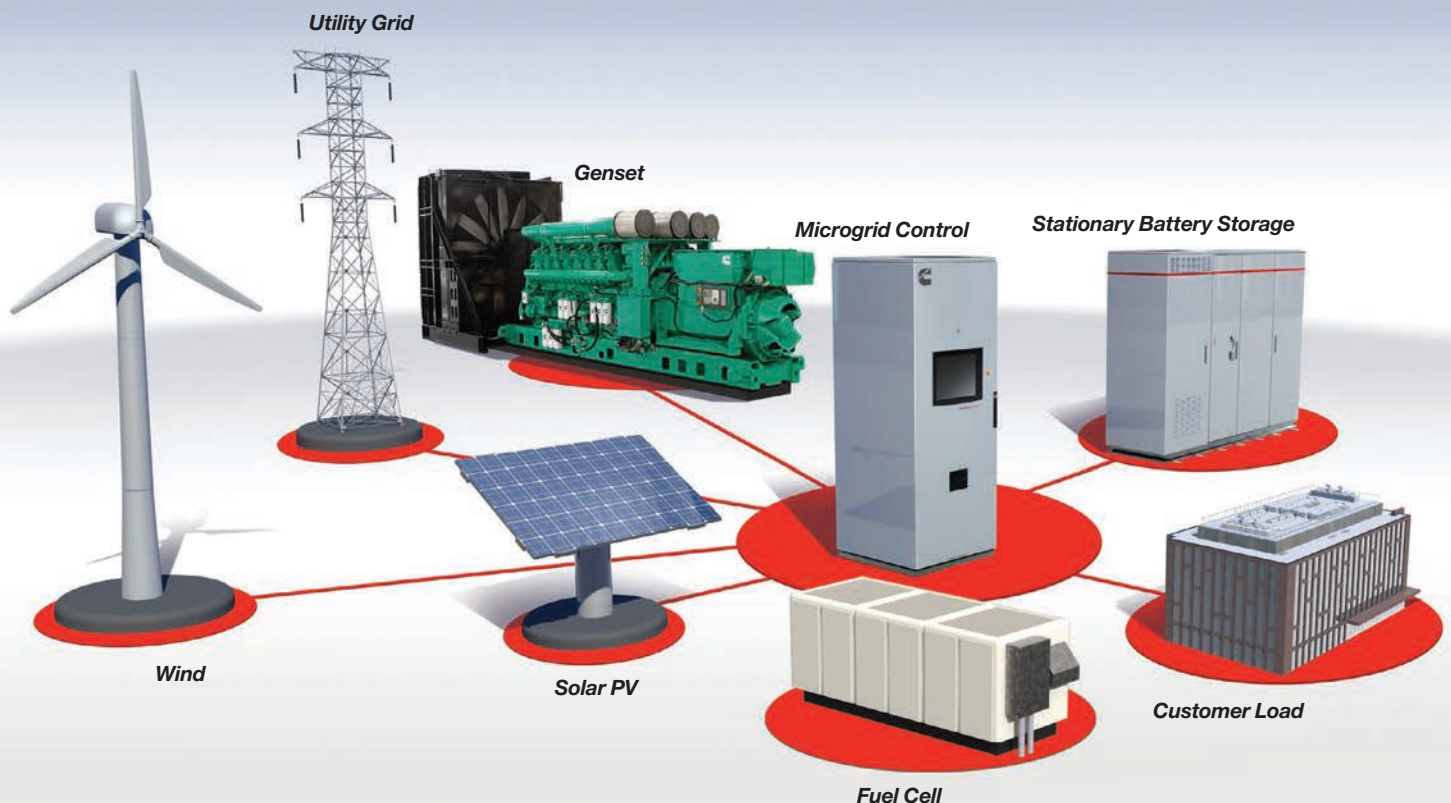
- Balancing of all the distributed energy assets to maximize the output of the renewable power and achieve the lowest total cost of ownership
- Automatic starting and stopping of generators based on load demand
- Charge and discharge control for energy storage to achieve multiple goals, such as capturing excess renewable power, increasing system resiliency, preserving battery life and optimizing generator fuel efficiency

## COMPREHENSIVE SYSTEM DATA:

- Historical trending and data capture to track asset usage and system performance
- System alarming, alarm history and sequence of events recorder for fast issue resolution

## DIGITAL CONNECTIVITY:

- Communication linked to Energy Management Systems (EMS)





# SCALABILITY AND CUSTOMIZATION

## ALL FROM ONE SOURCE

As a single-source supplier, Cummins takes the complexity out of your system to give you the peace of mind that you're operating on a proven system architecture. Our products are also designed to provide the flexibility needed to meet local regulations and the unique demands of your market as well as your specific power requirements.

The Microgrid Controller is easy to expand and modify to the configuration of the system by way of its load demand control sequences, which can be tailored at the operator interface. In addition, the system design allows for in-field modifications as your site needs change over time.

We have the field-tested and proven building blocks and system architecture library necessary to build a custom yet reliable system.

A full-page photograph of a man with a beard and safety glasses, wearing a dark blue long-sleeved shirt, a bright yellow high-visibility safety vest, and grey gloves. He is standing in front of a white service truck. The truck has a large black 'Cummins' logo on its side. The man is holding a tool in his right hand. A red horizontal band is overlaid across the middle of the image, containing the main headline and two paragraphs of text. The background shows green foliage.

# A DEDICATED FACTORY REPRESENTATIVE KEEPS YOU UP AND RUNNING

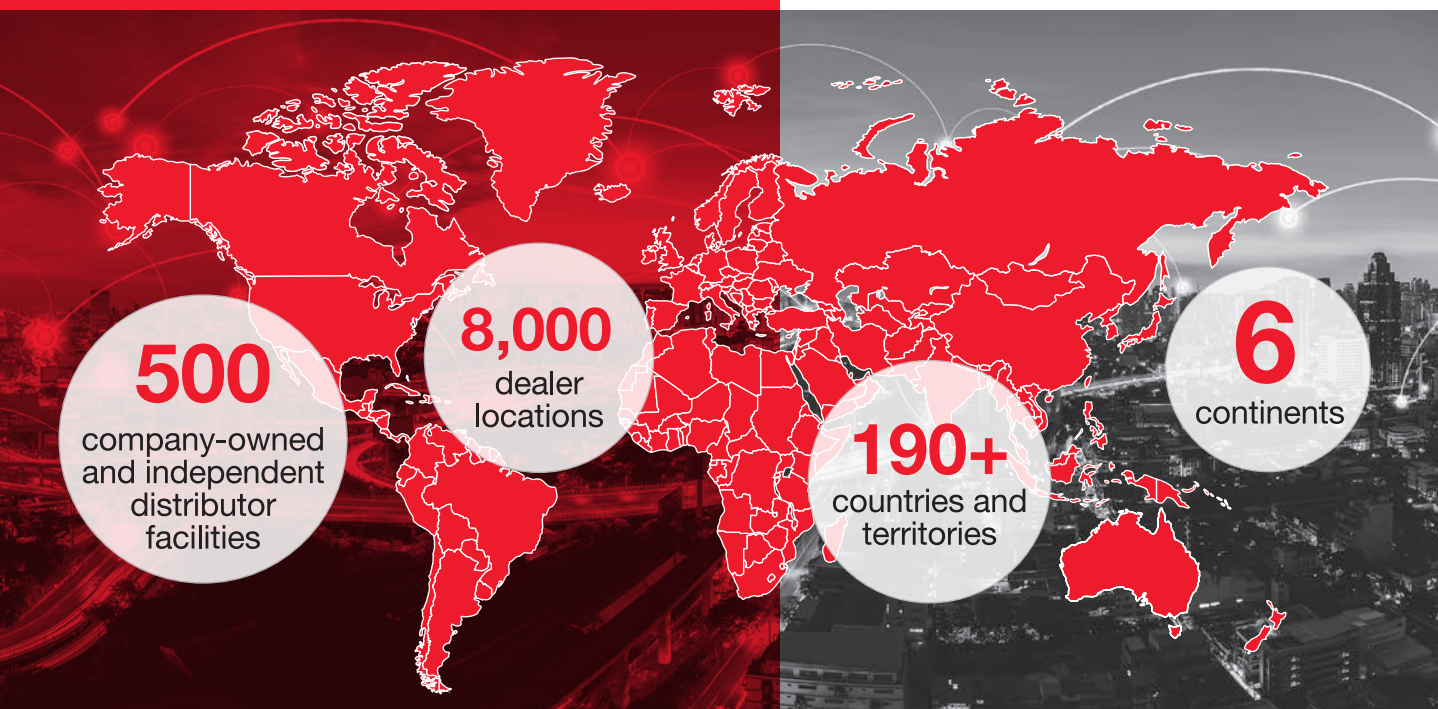
All Cummins service and support resources are managed through a single point of contact: your factory-direct account manager. Assigned specifically to you, your account manager gives you a direct line to the factory with no middlemen, ensuring rapid response from the entire service system.

Your knowledgeable, single-source contact is dedicated to saving you time and hassles while ensuring fast, reliable service every time.

# WORLD-CLASS SERVICE AND SUPPORT NETWORK

**OVER 8,000  
DISTRIBUTOR AND  
DEALER LOCATIONS  
IN MORE THAN 190  
COUNTRIES**

No matter where you are, your local Cummins distributor or dealer is your first line of support for everything from application assistance and on-site commissioning to troubleshooting, maintenance and aftermarket services: Powering a world that's Always On.



**Cummins Inc.**  
Box 3005  
Columbus, IN 47202-3005  
U.S.A.

1-800-CUMMINS™ (1-800-286-6467)  
[cummins.com](http://cummins.com)

Bulletin 5600546 Printed in U.K. Rev. 10/20  
©2020 Cummins Inc.