



# Continuous, reliable power

How microgrids can help you to diversify  
and better manage your energy needs





# The world is ready, and so are we

The world has shifted from regulated to deregulated energy markets over the past 20 years. That's prompted major investments in decarbonization and digital electricity infrastructures along with smaller-scale facilities called **microgrids** and higher penetration of renewables to provide distributed energy resources (DERs).

Indeed, the energy landscape has been significantly impacted by the ways that we consume and provide energy — and how we will power our future.

## Top four trends reshaping the world's power:





# Maximizing your energy supply reliability

Our power system solutions are fully integrated, innovative designs for distributed generation applications. Cummins also can work with third-party providers as needed to incorporate battery storage and solar photovoltaic equipment. Cummins continues to invest in future technologies and products to meet emissions requirements around the world and work with our stakeholders in supporting decarbonization. For the power generation market, this includes:



# Your connection for resilient, economical power

Microgrids will play an increasingly larger role in our energy future. Organizations can evaluate the relevancy of microgrids for their unique needs as a part of their broader energy management strategies.

We help customers to design microgrid and distributed energy solutions in ways that complement the existing central grid structure but also create a resilient alternative that's economical as well as addresses concerns about environmental and climatic changes.

Incorporating a variety of energy sources from traditional to renewable into one integrated and efficient power system requires sophisticated control algorithms and the ability to respond to every unique power need with turnkey solutions from concept to design, to installation and lifetime of service. This means your microgrid will offer:

- Higher resilience
- Lower cost of operation
- Efficient, low-cost, clean energy
- Reduced carbon footprint





# Integrated microgrid solutions for your unique needs

We are a leading provider of integrated turnkey power systems that include diesel, natural gas generator sets, hydrogen technologies, control systems and digital solutions. Cummins partners with businesses, governments and institutions to successfully implement microgrid solutions for their projects such as:

- Greenhouses
- Data centers
- Healthcare facilities
- Manufacturing plants
- Military installations
- Remote communities and islands

Cummins continues to invest in future technologies and products to meet emissions requirements around the world and work with our stakeholders in supporting steps toward decarbonization. For the power generation market, this includes integrated microgrid solutions with battery storage, system-level controls and over time, hydrogen technologies in addition to diesel and natural gas.





# Bi-directional networks shape planning, investment and operation

DERs are smaller power generation systems at or close to the point of consumption. They are categorized as either front of the meter, behind the meter, or grid firming.

DERs reduce the costs, complexities and inefficiencies associated with traditional power transmission and distribution.

**Examples cases include:**







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Bulletin 6307252 Produced in U.S.A. Rev. 11/24  
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