

Five steps to more resilient and sustainable mission-critical power

THE CHALLENGE

Electricity networks are under intense pressure – with demand and supply problems leading to power cuts and price rises. This grid instability can be attributed to many factors.

UNPREDICTABLE WEATHER

350
MILLION

At least 350 million people¹ faced major power outages last year, due in part to extreme weather events linked to climate change.

LACK OF INVESTMENT



Annual investments in energy infrastructure needs to increase from \$1 trillion today to \$4 trillion² by 2030 to achieve net-zero emissions by 2050.

TRANSPORTATION ELECTRIFICATION

60%

By 2030, electric vehicles will represent more than 60%³ of vehicles sold globally, massively increasing electricity usage.

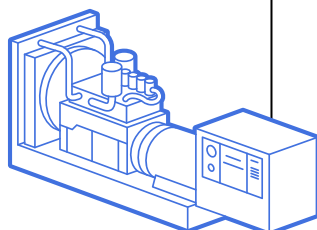
DIGITIZATION ACROSS SECTORS

24.1B
IOT DEVICES BY 2030

By 2030, the number of Internet of Things devices will reach 24.1 billion⁴, with double-digit annual increases through the next decade.

THE SOLUTION

Generators are the backbone of a resilient energy solution, enabling mission-critical power users at places like hospitals, airports and data centers to cope with grid instability.



A FIVE-POINT CHECKLIST FOR RESILIENT, SUSTAINABLE MISSION-CRITICAL POWER

1

EXPERT GUIDANCE

When selecting the right generator, customers need to balance factors such as site location, output, size, vibration, cooling, and access. Our experts can help you navigate this complexity and select the optimal solution.

2

BESPOKE SYSTEMS

Mission-critical operators demand highly customized systems that protect power supplies in the most challenging operational environments. We have the engineering know-how to create a bespoke solution.

3

EMISSION CONTROL

Generators must meet stringent emissions standards for NOx and particulate matter levels. We offer a full range of engine optimization and after-treatment technologies to meet local and regional regulations.

4

RENEWABLE FUEL

Renewable fuels such as Hydrotreated Vegetable Oil (HVO) reduce net carbon dioxide emissions by as much as 90%. Our entire offering of mission-critical diesel generators is compatible with HVO.

5

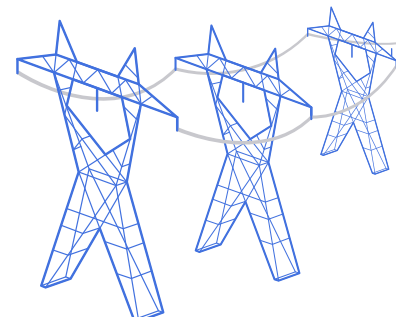
FUTURE PROOFING

It is possible to pair generators with renewables, batteries and fuel cells to further reduce emissions while retaining resiliency. We continue to explore novel approaches and can provide expert guidance on the best options available.

YOUR TRUSTED PARTNER FOR MISSION-CRITICAL POWER

Whether you are an engineering consultancy, M&E contractor, or end user, Kohler can help you design, build and maintain highly customized and optimized mission-critical infrastructure for the most challenging operational environments.

To find out more listen to our podcast, **Energy Resilience | KOHLER UNCUT**. Or visit sustainablefuture.kohlerpower.com.



¹ https://news.ihsmarkit.com/prviewer/release_only/id/5015357
² <https://www.mckinsey.com/capabilities/operations/our-insights/global-infrastructure-initiative/voices/upgrade-the-grid-speed-is-of-the-essence-in-the-energy-transition>
³ <https://www.iea.org/reports/by-2030-evs-represent-more-than-60-of-vehicles-sold-globally-and-require-an-adequate-surge-in-chargers-installed-in-buildings>
⁴ <https://www.pnewswire.com/news-releases/global-iot-market-will-grow-to-24-1-billion-devices-in-2030--generating-1-5-trillion-annual-revenue-301061873.html>