



# Latest news on the new blue ocean of microgrids

What is a blue ocean microgrid?

Blue Ocean microgrids serve power to remote, off-grid locations with power availability challenges. A resilient and expandable platform that accommodates green energy inputs. Reliability on or off grid. Uninterrupted 24/7 digital power. UPS-quality. Any format.

How will the microgrid Revolution change DC's energy future?

Despite remaining challenges, such as standardization and training, continuous advancements pave the way for DC's dominance, shaping a brighter and cleaner future for energy. The microgrid revolution has already empowered many innovative, ambitious organizations to take control of their energy future.

How will a microgrid change the world in 2024?

This will enable more small and medium-sized commercial and industrial customers to afford the benefits of microgrids. The standardization breakthroughs that occurred in 2023 will continue in 2024, driving exponential growth in investment and innovation across an expanding ecosystem of system vendors and integrators.

Are microgrids the future of energy?

The future of energy is here: microgrids and demand-side flexibility programs continue to usher in innovations that trend toward a better tomorrow. Here are the top trends we expect to see in demand-side flexibility programs and microgrids in 2024:

Why are microgrids embracing DC?

Microgrids are embracing DC to become more independent, flexible, and cost-effective. Despite remaining challenges, such as standardization and training, continuous advancements pave the way for DC's dominance, shaping a brighter and cleaner future for energy.

What is a blueflux microgrid?

Blueflux microgrids are intelligent, redundant systems designed to deliver uninterrupted 24/7 power. An interconnected and overlapping architecture minimizes the possibility of power loss, even in the event of one or more simultaneous failures of a major system component (as may occur in a weather event).

Latest articles by Ben. Opinion 18 July 2024 North America's EV charging infrastructure suggests a smooth road ahead for heavy vehicles; Opinion 2 November 2023 New State Scorecard maps out how far US state policy must advance to support commercialisation of microgrids; Opinion 20 June 2023 Transformation in the US distributed energy resource ...

Once the technology is perfected and working on the Blue Lake Rancheria, the TERAS project will build and



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deploy the three community-scale microgrids in the Yurok, Karuk, and Hoopa Valley communities. With the microgrids in place, disruptions in one community along the Hoopa 1101 won't bring down the others.

The vast majority of the new project entries (135) were in the Asia Pacific region, concentrated in India, which is the global leader in terms of numbers of deployed microgrids to date. The largest source of new capacity is the community/utility segment, with an ...

The study will evaluate new power capacity which may include fuel cells, solar and dispatchable generation such as CHP and other new electric infrastructure to allow the proposed microgrid to operate during normal and emergency conditions. Track news about microgrid projects by joining our LinkedIn Group, Community Microgrids and Local Energy.

Interest in marine-powered microgrids is growing, and the federal Department of Energy (DOE) gave the marine energy industry a boost in late July by announcing it will invest \$20 million for seven projects that aim to accelerate ...

The U.S Department of Energy and the New Jersey Board of Public Utilities Provide Sustainability Planning Resources for Resilient Municipal Microgrids Newark, N.J. (Aug. 3, 2021) - The New Jersey Institute of Technology's Center for Resilient Design announces the launch of microgrids.io, a web-based resource focused on planning and developing ...

Challenging an industry's conventional wisdom about which buyer group to target can lead to the discovery of a new blue ocean. For example, Novo Nordisk [6], the Danish insulin producer created a blue ocean in the insulin industry by shifting their buyers from doctors to the patients themselves. With the creation of its NovoPen, the first ...

Blueflux Microgrids intelligently manage an anycombination of DERs: Fossil Fuel-Based: oil, coal, gas, Alternative Sources: nuclear, biofuels, and/ or Renewables: solar, wind, hydro.Platforms also include energy storage and the ability to dynamically load balance Our Advanced Power Management maximizes utilization of renewables with smart A.I. controls, which reduces ...

Learn more about microgrids by registering and watching an on-demand presentation of POWER's recent webcast, "Microgrids--Development and Design," and plan to attend POWER's Distributed ...

The laboratory's instruments can mimic everything from ocean waves to miniature grids--like microgrids and nanogrids--offering a safer, cheaper, controlled, and lower-risk environment to validate local renewable energy technologies and grid systems before they are deployed in the field. ... Using the laboratory's latest suite of instruments ...

The development, calling itself an "environmental village," was a quick drive from Ocean Isle Beach, a barrier

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island near the South Carolina border, and the homes were reasonably priced ...

The weather-related impacts of climate change will increasingly threaten critical infrastructure in the future. Shifting electricity grids towards microgrids could help.

microgrids. In DC microgrids, voltage stability will be affected as there is no reactive power flow as in AC microgrids [23]. Significant research has been done to tackle this issue. De-coupled control strategy for energy storage devices based on non-linear PI controller and k-Type compensators has been successfully tested for voltage regulation in a

Microgrids play a crucial role in the transition towards a low carbon future. By incorporating renewable energy sources, energy storage systems, and advanced control systems, microgrids help to reduce dependence on fossil fuels and ...

This week the BMT-led Ocean Energy Smart Grid Integration Project reaches full-scale testing at the Sustainable Marine Energy substation in Nova Scotia, with teams on the ground from BMT, Sustainable Marine Energy, ...

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Microgrids market worth \$206bn by 2031 - report. The solutions will then be replicated in two use cases - a public metro network in Sofia, Bulgaria and a residential district in Finland, which will serve as niche ...

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People, Power, and the Sun: Honnold Foundation x Adjuntas, Puerto Rico. Although most microgrids today operate independently, one way to get the maximum benefit from them is to connect them ...

In Nature Sustainability researchers from Karlsruhe Institute of Technology (KIT) present design criteria for microgrids that allow for fair treatment of different social groups alongside technical factors. The study shows how ...

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The core concept behind the Blue Ocean Strategy includes: Creating New Market Space: The strategy emphasizes the importance of creating new market spaces (or "blue oceans") rather than competing in existing industries (referred to as "red oceans"). Market boundaries are defined and known in red oceans, and companies try to outperform their rivals to grab a more significant ...

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A new report released today by the Smart Electric Power Alliance (SEPA) and the Electric Power Research Institute (EPRI) lays out three basic business models, third party, utility, and hybrid, now driving growth in the ...

Cuyahoga County, Ohio; This project deserves recognition for its magnitude and ambition. The county of 1.2 million people is considering microgrids for at least three areas, including one for an innovation hub that spans several municipalities and includes the Cleveland-Hopkins International Airport and the NASA Glenn Research Center. Like most microgrids, it's ...

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