

2025 Microgrid Demonstration Area



Overview

The 20th edition of the Microgrid & Off-Grid Innovation Forum, September 30 - October 1, 2025 in Austin, TX brings together technology innovators, project developers, utilities, energy providers and policy makers for focused networking and in-depth information sharing at the cutting.

2025 Microgrid Demonstration Area



Microgrid & Off-Grid Innovation Forum

As data centers, EV uptake, electrification of industrial processes and other factors drive growth in demand for electricity in North America, microgrids and off-grid energy systems are seen

Office of Clean Energy Demonstrations

Deliver clean energy demonstration projects at scale in partnership with the private sector to accelerate deployment and market adoption.



[In charts: 7 global shifts defining 2025 so far . World Economic Forum](#)

2025 has been marked by significant global shifts, including increased geopolitical instability, the accelerating impact of AI and a changing labour market.

The Future of Jobs Report 2025

Learn how global trends like tech innovation and green transition will transform jobs, skills, and workforce strategies in The Future of Jobs Report 2025



[Watch a Preview of the Microgrid Demonstration](#)

The microgrid demonstration is part of the Grid Edge Theater at RE+. Each year, different technologies are used in the microgrid, and highlighted

[Gender Gap Report 2025 , World Economic Forum](#)

Global Gender Gap Index 2025 benchmarks gender parity across 148 economies, offering trend analysis, key findings, and insights into progress since 2006.



[These are the Top 10 Emerging Technologies of 2025](#)

The World Economic Forum's latest Top 10 Emerging Technologies report explores the tech on the cusp of making a massive impact on our lives.

Top 10 Microgrid Demonstration Projects

This demonstration home by SoCalGas is a first of its kind, using solar, storage, an electrolyzer, and the Generac ARC microgrid controller to convert solar energy to hydrogen.



[The Future of Jobs Report 2025 , World Economic Forum](#)

Technological change, geoeconomic fragmentation, economic uncertainty, demographic shifts and the green transition - individually and in combination are among the major drivers

[Behind the Scenes Preview: RE+ 25 Microgrid Demonstration](#)

This year's microgrid will feature the use of hydrogen to power microgrids, featuring a fuel cell generator and a bi-directional charging EV. Get a preview of the build at Grid Edge Theater



(which will be



[Future of Jobs Report 2025: The jobs of the future](#)

These are the jobs predicted to see the highest growth in demand and the skills workers will likely need, according to the Future of Jobs Report 2025.

Microgrid Knowledge 2026

This year's event will dive into the urgency of fractionalized energy systems, the growing impact of grid-edge technologies, and how microgrids are redefining energy independence in real time. The future



[Future shocks: 17 technology predictions for 2025 , World Economic](#)

We asked our 2020 intake of Technology Pioneers for their views on how technology will change the world in the next five years. Here are their predictions.

[Key microgrid trends impacting the new energy landscape](#)

Read about the transformative trends underscoring how microgrids are driving the New Energy Landscape in 2025.



Grid Edge Theater - EMerge Alliance

The Grid Edge Theater Microgrid demonstration featured high-performance DC-coupled power conversion & management, AC/DC & Fault Managed Power, and

[Cybersecurity awareness: AI threats and cybercrime in 2025](#)

October is Cybersecurity Awareness Month. Discover 10 crucial insights into cybercrime in 2025, including the impact of AI cyber threats and strategies to fight back.



Microgrid Knowledge

The \$4.63-million microgrid project will power two water wells on the Hopi Reservation in northeast Arizona. The microgrid will be powered by solar and battery storage in an area without grid access.

[Global Risks Report 2025 . World Economic Forum](#)

The Global Risks Report 2025 analyses global risks to support decision-makers in balancing current crises and longer-term priorities.



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