

# American Electric Power Microgrid



## Overview

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A microgrid is a group of interconnected loads and distributed energy resources within clearly defined electrical boundaries that acts as a single controllable entity with respect to the grid. 2 A microgrid can operate in either grid-connected or in island mode, including entirely. Authorized by Section 40101(d) of the Bipartisan Infrastructure Law (BIL), the Grid Resilience State and Tribal Formula Grants program is designed to strengthen and modernize America's power grid against wildfires, extreme weather, and other natural disasters that are exacerbated by the climate. American Electric Power (AEP) is the latest among U. utilities to acknowledge that coming data center growth is challenging the traditional power grid dynamic in historic ways. During its second-quarter earnings webcast this morning, AEP Interim CEO Ben Fowke told analysts that the utility has 15. Of the 692 microgrids in the United States, most are concentrated in seven states: Alaska, California, Georgia, Maryland, New York, Oklahoma, and Texas.

## American Electric Power Microgrid

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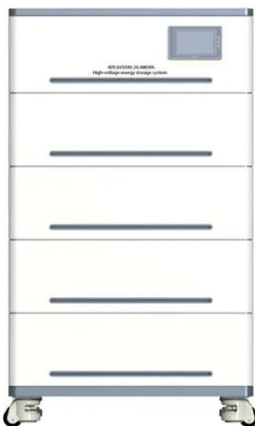
### Supercharging America's power grid from the demand side

A microgrid is a local energy system that can disconnect from the main power grid and operate independently. It combines behind-the-meter power sources like solar, batteries and ...

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### CERTS Microgrid Concept , CERTS

The Concept has been further validated via testing at a full-scale microgrid demonstration test bed operated by American Electric Power (AEP), the largest electric utility in the Midwestern United States.



### American Electric Power reveals 15 GW of new data center capacity

If you need further proof of the #datacenter #energydemand challenge facing utilities, American Electric Power revealed today it has 15 GW of new committed load opportunities with data center

## Microgrid Consortium

This coalition of electric cooperatives seeks to develop resilient, reliable and economically beneficial microgrid and storage projects for their communities.

### ESS



## AEP: 15 GW of New Data Center Capacity Growth

American Electric Power (AEP) is the latest among U.S. utilities to acknowledge that coming data center growth is challenging the traditional power grid dynamic in historic ways.

## Microgrids spread across US as Big Tech, utilities shore up power

The microgrid will distribute electric energy from solar, fuel cells and batteries through a self-contained energy system that can operate independently from the main power grid.



## American Microgrid Policy Development

While the program has not yet been



implemented, it is projected to be the highest-funded state incentive for microgrids. Plans include utilizing public and private capital to implement "resilience-focused, ...

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## Microgrid Overview

When the main electric grid loses power, the microgrid goes into island mode (i.e., operates independently of the main electric grid) and serves its own customers with the generation and other

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