



Microgrid Demonstration Project of Electric Power University

What is the microgrid initiative?

The microgrid initiative satisfies the first goal of dynamic optimization of distribution grid operations as well as an emphasis on distribution automation. Toward this end, the initiative has established its 2020 microgrid performance targets on costs, reliability, system energy efficiencies, and emissions. 2

Are microgrids a key component of the smart grid?

Microgrids have been identified as a key component of the Smart Grid for improving power reliability and quality, increasing system energy efficiency, and providing the possibility of grid-independence to individual end-user sites.

Will Apep ensure a microgrid controller meets IEEE standards?

Overall, APEP will assure that the microgrid controller meets the national standards (IEEE 2030.7) that evolved from prior research conducted by APEP for the DOE using the UCI Microgrid as a platform for both the development and demonstration.

Who sponsored the microgrid workshops?

Contributions to this article by all workshop participants are duly acknowledged. The Microgrid Workshops were sponsored by the DOE Office of Electricity Delivery and Energy Reliability. The workshops were hosted by the University of California - San Diego and by the Illinois Institute of Technology in Chicago.

Why was the microgrid a great inspiration for the Homer Conference?

As a current demonstration of clean power solutions that most of us can only imagine, the microgrid was by all accounts a great inspiration for participants at the HOMER conference. Dozens of them had made long trips from overseas to attend, and had never seen such a collection of cutting-edge projects.

What is Certs microgrid test bed?

The CERTS Microgrid Test Bed demonstration with American Electric Power (AEP) was designed to enhance the ease of integrating small energy sources into a microgrid.



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