

Japan Sendai Microgrid Case Study

How effective was the Sendai microgrid after the earthquake?

Despite the extreme devastation, the Sendai Microgrid resumed supplying power and heat to customers after a short interruption, proving its effectiveness. This case study is an analysis of the operations of the Sendai Microgrid in the aftermath of the earthquake and will provide useful lessons for all microgrid operators and users around the world.

What happened to Sendai microgrid in Tohoku?

As described above, the earthquake caused massive damage to the Tohoku district where the Sendai Microgrid is located. When the earthquake occurred, Tohoku EPC stopped supplying power to the area surrounding the Sendai Microgrid, resulting in a three-day outage.

What is the Sendai microgrid?

The Sendai Microgrid was initially designed in 2004 as a test bed for a demonstration project of NEDO. After the study was completed in 2008, the microgrid system has continued in operation under the management of NTT Facilities, Inc.

Why did Tohoku EPC stop supplying power to the Sendai microgrid?

When the earthquake occurred, Tohoku EPC stopped supplying power to the area surrounding the Sendai Microgrid, resulting in a three-day outage. Nevertheless, the Sendai Microgrid was able to supply power to loads within its service area continuously.

Despite the extreme devastation, the Sendai Microgrid continued supplying power and heat to customers, proving its effectiveness. This paper reports the behaviour of the Sendai microgrid ...

The Sendai Microgrid has several generation sources: two gas engines, a phosphoric acid fuel cell (PAFC) and a photovoltaic array.

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1. Introduction This case study describes the Sendai Microgrid, located on the Point of Common campus of Tohoku Fukushi University in Sendai City in the Tohoku Coupling 200 kW 350 kW 350 kW 50 kW ...

Where is the Sendai microgrid located? Join ResearchGate to contact this researcher and connect with your scientific community. This case study describes the Sendai Microgrid, located on the campus of ...

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The Operational Experience of Sendai Microgrid in the Aftermath of the Great East Japan Earthquake: A Case Study The Sendai Microgrid was initially designed in 2004 as a test bed for a ...

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Summary Sendai Microgrid worked very well during the great east Japan earthquake. After the major event, the renewable energy and distributed power system were focused more and ...

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