

# Sendai Microgrid



## Sendai Microgrid

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### **Behavior of the Sendai Microgrid during and after the 311 Great East**

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 ...

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### **Japan Sendai Microgrid Demonstration Project**

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.



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### **A Microgrid That Wouldn't Quit**

The Sendai microgrid is a small distributed energy system with a total output of only 1 megawatt, but its setup yields certain advantages that make up for its diminutive size.



## Sendai Microgrid

The Sendai Microgrid has different categories of loads based on based on the quality of power they require. This allows much higher reliability to critical needs. It can supply various classes of power ...

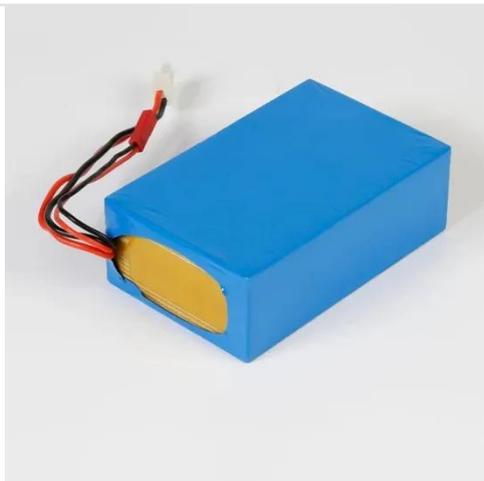
### Home Energy Storage (Stackble system)



High Efficiency    Easy installation    Safe and Reliable    Perfect Compatibility

**Product Introduction**

- 1 Scalable from 10 kWh to 50 kWh
- 2 Self-Consumption Optimization
- 3 Integrated with inverter to avoid the compatibility problem
- 4 LFP battery, safest and long cycle life
- 5 Stackble design, effortless installation
- 6 Capable of High-Powered Emergency-Backup and Off-Grid Function

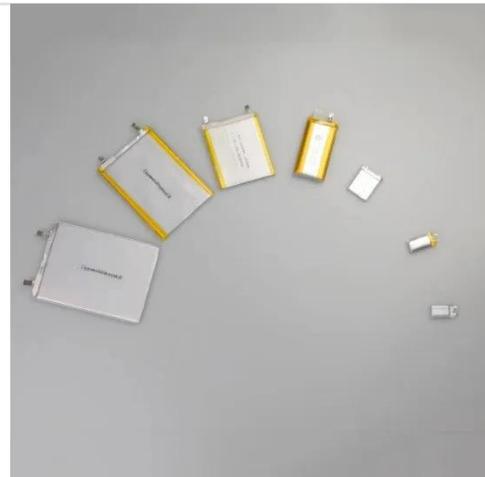


## The Sendai Microgrid Operational Experience

The Sendai Microgrid is the system constructed by NTT-F for the "Experimental Study of Multi Power Quality Supply System (MPQSS)", implemented by NEDO between 2004 and 2008.

## The Sendai Microgrid Operational Experience in the Aftermath of the

The original configuration of the Sendai Microgrid included a molten carbonate fuel cell (MCFC); after the earthquake a phosphoric acid fuel cell (PAFC) was substituted.



## The Sendai Microgrid Operational Experience



The Sendai Microgrid is designed to use multiple sources of energy, most importantly natural gas supplied via a disaster-resistant medium pressure pipeline. This provides a stable energy supply in ...

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## Lessons Learned from Sendai Microgrid

Long time, need to plan these changes!  
"It is not the strongest of the species that survives, nor the most intelligent, but the one most responsive to change."



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## Japan's Microgrid Research Status: Post-Fukushima Innovations and

The 2011 Fukushima disaster fundamentally reshaped energy priorities, transforming this island nation into a global microgrid laboratory. But how exactly did catastrophe fuel technological ...

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## Sendai Microgrid

Perhaps the most well-known microgrid demonstration on this planet, The Sendai

Microgrid Project was one of the four major New Energy and Industrial Technology Development Organization (NEDO) ...



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