

Fukushima Microgrid: Soma, Japan

The Customer: IHI Corporation

IHI Corporation, parent organization to IHI Energy Storage and the customer in this project, has been a leader in the industrial sector since 1853. IHI's experience and expertise provides support to its various subsidiaries, all working to bring society to new levels of technological advancement.



Project Details:

Commissioned March 2018

Size: 500kW/2.5MWh

Use case: Microgrid, renewables support

Scope: Complete ESS system, control platform (ESWare), and system integration

The Challenge:

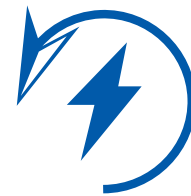
IHI Corporation developed an independently sustainable smart grid community in Fukushima prefecture that leverages a variety of installed technologies, including onsite hydrogen generation, PV systems, and more to reduce CO2 emissions while providing reliable power to the smart community. IHI Corporation sought a uniquely designed and highly responsive energy storage system to maximize the value of the onsite solar generation.

Key System Benefits:



Smooth solar generation
and support renewables

Demonstrate efficiency
of energy storage in a field application



IHI Energy Storage's Solution:

To create the resilient and responsive system needed, IHI Corporation conducted an extensive RFP process, seeking out high-end software capabilities and tailored system offerings. After in-depth application review, IHI Corporation selected its subsidiary, IHI Inc.'s Energy Storage division (IHI Energy Storage) to provide the energy storage system best suited to meet the project needs.

To address IHI Corporation's challenge, IHI Energy Storage provided the 500kW, 2.5MWh energy storage system as well as the proprietary ES/Pilot system controls, which enable solar smoothing and shifting for the 1,250kW of solar generation at the facility, maximizing the facility's efficiency.