

FUKUSHIMA MICROGRID:

A case study with IHI Corporation



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.

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 Solution:

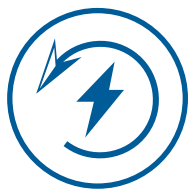
To create the resilient and responsive system needed, IHI Corporation conducted an extensive RFP process, seeking out high-end software capabilities and tailored system offerings. After in-depth application review, IHI Corporation selected its subsidiary, IHI Terrasun Solutions, Inc. to provide the energy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

To address IHI Corporation's challenge, IHI Terrasun Solutions, Inc. 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.

Key System Benefits:



Smooth solar generation
and support renewables



Demonstrate efficiency
of energy storage in a
field application

The Customer: IHI Corporation

IHI Corporation, parent organization to IHI Terrasun Solutions, Inc. 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.

To learn more about this project and IHI Terrasun's advanced software and solutions, reach out to the sales team. With expert engineers and a suite of offerings that can be tailored to fit specific projects, IHI Terrasun Solutions is ready to create the ideal energy storage solution for your needs.

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