

Yamabiko Launches Demonstration Operation to Reduce CO₂ Emissions by 70% in Powering Temporary Office in Cooperation with Taiyo Kenki Rental

~Verify the reduction of CO₂ emissions and light oil consumption during independent power supply by introducing the newly developed BESS type* "shindaiwa 50kVA Multi-Hybrid Cube".~

※BESS (Battery Energy Storage System)



Yamabiko Corporation (hereinafter "Yamabiko"), in cooperation with Taiyo Kenki Rental Co., has launched a demonstration project for the power supply of temporary greenhouses at a construction site in Shizuoka Prefecture in September 2024.

By incorporating the BESS-type "shindaiwa 50kVA Multi-Hybrid Cube" in addition to the solar panels conventionally used for temporary office, we aim to reduce CO₂ emissions by 70% and achieve a low-carbon society while providing all the electricity needed.

■ BESS type "shindaiwa 50kVA multi-hybrid cube"

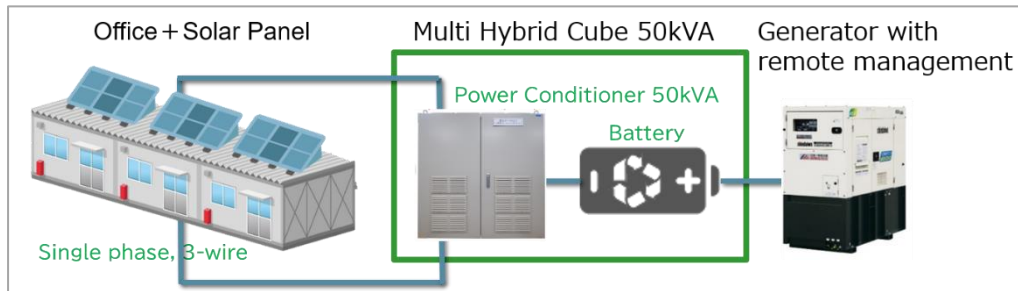
It is a power supply system equipped with storage batteries and a 50kVA power conditioner, and is capable of integrated control, including external generators, through a new energy management system (K-EMS) developed in-house. In sunny weather, the system eliminates the need for generator operation by storing excess power from solar generation in storage batteries. In rainy weather, the system minimizes generator operation while prioritizing power supply from storage batteries, thereby maximizing the use of renewable energy and minimizing CO₂ emissions. It also helps reduce the man-hours required for on-site operations such as refueling by remotely monitoring power generation and remaining fuel.

In May 2024, Yamabiko introduced the shindaiwa 10kVA Multi-Hybrid Cube, a solar panel-integrated system with a 10kVA power conditioner, at CSPI-EXPO 2024 (6th Construction and Surveying Productivity Expo). In the same month, the company began demonstration tests using it as the power source for Giken's Mobile ECO Cycle™.

This time, the output capacity of 50 kVA is even higher, making it possible to use the system in a wide range of situations, including construction sites, and expanding its potential to contribute to a low-carbon society.

Through this demonstration, Yamabiko will further accelerate its efforts to become carbon neutral.

BEES-type “shindaiwa 50kVA multi-hybrid cube” system configuration



shindaiwa Multi-Hybrid Cube lineup



■ Yamabiko's Carbon Neutral Solution website

<https://www.yamabiko-corp.co.jp/english/gogreen/top/id=15372>

■ Past press releases about the multi-hybrid cube

1) Multi-Hybrid Cube First shown at CSPI-EXPO 2024

<https://www.yamabiko-corp.co.jp/news/detail/id=15067>

2) Multi-Hybrid Cube: Started demonstration tests with Giken Ltd

<https://www.yamabiko-corp.co.jp/news/detail/id=15090>

【About Taiyo Kenki Rental】

We rent various equipment such as construction equipment, various industrial vehicles and machinery, and small machinery to construction sites and various event venues, with the aim of contributing to the urban development of local communities and the creation of a prosperous country in the future through rental.

【About Yamabiko Corporation】

Yamabiko, with its three brands KIORITZ, shindaiwa, and ECHO, develops, manufactures, and sells various products worldwide in three business fields: small outdoor power equipment (brush cutters, chain saws, etc.), agricultural management equipment (pest control machines, weed trimmers, etc.), and general industrial machinery (generators, welding machines, etc.). In addition, to contribute to solving market issues such as manpower and labor saving, renewable energy, and carbon neutrality, we are promoting the development of products and systems with high safety, operability, and environmental technologies, and are actively engaged in creating new businesses such as electric power services and robot businesses.

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