



June 17, 2024

ENEOS Renewable Energy Corporation  
Mitsubishi Research Institute, Inc.

## **ENEOS Renewable Energy and Mitsubishi Research Institute Jointly Develop Operation Plan Development System for Storage Batteries**

ENEOS Renewable Energy Corporation (“ERE”; headquartered in Minato-ku, Tokyo; Kazuhiro Takeuchi, CEO) and Mitsubishi Research Institute, Inc. (“MRI”; headquartered in Chiyoda-ku, Tokyo; Kenji Yabuta, President and Representative Director) have jointly developed and launched an operation plan development system for storage batteries (“the System”) that utilizes MERSOL, MRI’s distributed energy resource operation support service. ERE will use the System for its storage batteries, while MRI will offer services utilizing the System to other customers.

As the installed capacity of renewable energy grows, the wide spread of storage batteries is expected to minimize the impact that renewable-energy output fluctuations can have on power grids. However, using storage batteries in an efficient way that accurately reflects changes in weather conditions and power demand is a difficult task. A key challenge has been the coordination between the two systems: (1) the system for developing theoretically optimal plans on one side and (2) the supply and demand management system used in the actual bidding and plan submission process. As a result, realizing theoretically optimal plans in real market trading has been difficult. The System automates operations associated with the coordination between systems, thereby drastically improving efficiency. It also enables faster optimization and automated bidding in the intraday market, for example. The System combines the strengths of ERE and MRI: ERE brings experience and knowledge gained from operating solar power plants equipped with storage batteries, and MRI brings know-how in forecasting and insights into storage battery systems gained from its MERSOL service. This enables the System to realize the efficient development of operation plans for storage batteries and their implementation.

Looking forward, ERE aims to use the System in operations of storage batteries that serve its renewable energy power plants and those on the power grid side to optimize revenues by ensuring a more stable supply of renewable energy and minimizing imbalance. ENEOS Renewable Energy Solutions Corporation (headquartered in Minato-ku, Tokyo; Hironao Uchijima, Representative Director), a fully owned subsidiary of ERE, will handle the actual power plant operation using the System. MRI will also provide services using the System to other power producers to help expand the use of distributed

energy resources across Japan. Both companies will continue to explore possibilities for further functional improvements and collaboration through these services.

Both ERE and MRI will sustain their efforts to construct new business models that will lead to the decarbonization of critical infrastructure, propelling the transition to a carbon-neutral society.

#### 【Overview of the joint development project】



#### About ERE

ENEOS Renewable Energy Corporation (formerly known as Japan Renewable Energy Corporation) was founded in 2012 with a mission “Changing the world with renewable energy.” With the understanding of the local community, ERE currently has 108 renewable power plants (including solar, wind and biomass) in operation and construction, plus a number of large-scale offshore wind farms and other renewable projects at the development stage. ERE is committed to addressing environmental and social challenges through renewable energy and working towards a decarbonized and fully sustainable society.

<https://www.eneos-re.com/english/>

#### About Mitsubishi Research Institute

Mitsubishi Research Institute is one of Japan’s foremost think tanks. For the last 50 years, it has provided the public and private sectors with research and consulting services in fields spanning energy, the environment, healthcare, and digital transformation. This is accompanied by policy recommendations and the real-world application of solutions. Mitsubishi Research Institute will continue to envision the future, resolve societal issues, and lead change to build a sustainable and prosperous world. For more information, please visit: [www.mri.co.jp/en/](http://www.mri.co.jp/en/)

#### Inquiries:

ENEOS Renewable Energy Corporation  
Corporate Communications & CSR Department  
Tel: 03-6455-4905 Email: [pr@jre.co.jp](mailto:pr@jre.co.jp)

Mitsubishi Research Institute, Inc.  
Group Corporate Communications Division  
Email: [media@mri.co.jp](mailto:media@mri.co.jp)