

## World Scope



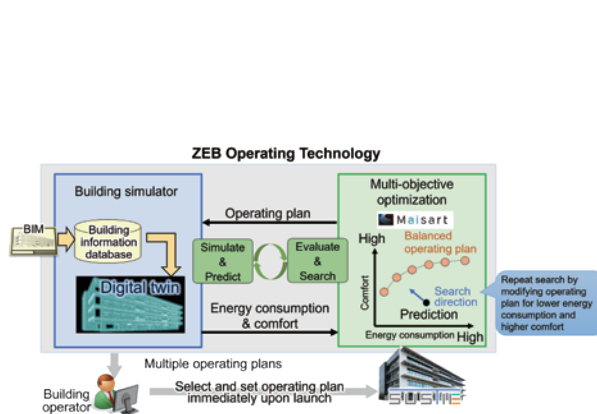
Mitsubishi Monitor introduces some of the latest news about Mitsubishi companies as they play an active role on the world stage.



### Mitsubishi Electric

## SUSTIE Test Facility Achieves Government ZEB Targets

Mitsubishi Electric's SUSTIE<sup>®</sup> net zero-energy building (ZEB) test facility in Kamakura, Kanagawa Prefecture, reduced its net energy consumption to less than 0% in its first full year of operation, meaning that it created more energy than it consumed. The facility deployed the company's pre-planning ZEB operating technology to optimize operations, resulting in a 115% net reduction in energy use compared to standard primary energy consumption in the year since it was commissioned in 2020. The technology simulated the use of building equipment, such as air conditioning and lighting, including temperature and brightness, to predict energy consumption and comfort levels for a one-year period. Furthermore, used together with multi-objective optimization technology using Maisart<sup>®</sup>, it can automatically generate building operating plans that minimize energy consumption while maximizing human comfort.



The pre-planning ZEB operating technology deployed at SUSTIE<sup>®</sup>. The technology simulates energy consumption and comfort levels for a one-year period.



SUSTIE<sup>®</sup> exterior. Equipped with solar panels only on the rooftop and pent roofs, the test facility shows that ZEB can be deployed even in urban areas with restricted site areas.

<https://www.MitsubishiElectric.com/sites/news/2021/pdf/1115.pdf>



For more information about the Mitsubishi companies, see "mitsubishi.com"

■ <https://www.mitsubishi.com/en/>



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