March 18, 2026
KANEKA CORPORATION

Kaneka and Saitama City to Launch Outdoor Demonstration Project of Perovskite Tandem Solar Modules

Kaneka Corporation (Headquarters: Minato-ku, Tokyo; President: Kazuhiko Fujii) has entered into a partnership agreement with Saitama City (Mayor: Hayato Shimizu) regarding a demonstration project for next-generation solar modules (*1).
Under this project, an outdoor demonstration of perovskite tandem solar modules, the first of its kind installed at a public facility in Japan, will be conducted on the premises of Saitama City Hall. The demonstration period is scheduled from March 18, 2026 to March 26, 2027.

Perovskite tandem solar modules used in this demonstration combine a perovskite top cell with Kaneka's heterojunction crystalline silicon solar cell as the bottom cell. By enabling each layer to absorb different wavelengths of sunlight, this next-generation solar cell delivers higher conversion efficiency than conventional crystalline silicon solar cells while maintaining high durability.
In this project, two perovskite tandem solar cell modules (*2) will be installed outdoors to evaluate power generation performance and durability. The electricity generated will be stored in batteries and utilized as an independent power supply system, contributing to emergency power supply during disasters.

By leveraging the knowledge gained from this demonstration, Kaneka is planning to begin commercial sales of perovskite tandem solar cell products in FY2028.

Based on our mission of KANEKA thinks "Wellness First", we are committed to creating a society where everyone can benefit from the blessings of nature and access clean, sustainable resources and energy. We contribute to local communities with total energy solutions using our environmentally friendly products such as solar cells and heat insulating materials.

(*1) Under this agreement, Saitama City and Kaneka will cooperate and collaborate on demonstration projects for next-generation solar cells, as well as initiatives to promote their widespread adoption and advance decarbonization efforts.
(*2) Each module measures approximately 995 mm × 1085 mm.

Lightweight perovskite tandem solar module

Residential roof tile-integrated perovskite tandem solar modules