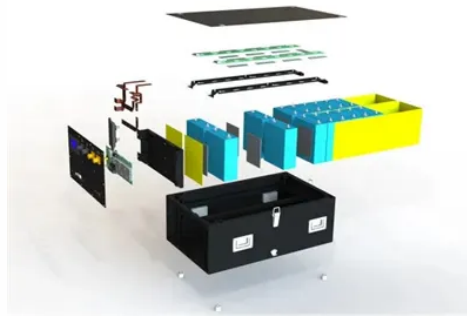




Japan osaka high temperature solar system



Overview

Featuring the world's first structure built with a radiative cooling membrane that lowers temperatures without consuming any energy, the pavilion's groundbreaking material was developed by Japanese startup SPACECOOL INC. Perovskite solar cells are next-generation solar cells that use compounds with a perovskite crystal structure as the power generation layer. They can generate electricity not only from sunlight but also from indoor lighting, offering high power generation efficiency, lightness, and flexibility. Under the theme "People's Living Lab," next-generation technologies developed by Japanese companies and research institutions, such as perovskite solar cells and induced pluripotent stem (iPS) cells, are being showcased at the 2025 Osaka-Kansai Expo. Companies aiming to solve problems common to all.

Brussels, September 2024 – At Expo 2025 in Osaka, Kansai, Japan Daikin will set up a brand-new 'Ice Cool Spot'.



Article Content

2025 Expo Osaka: Next-Generation Technologies ...

Under the theme “People's Living Lab,” next-generation technologies developed by Japanese companies and research institutions, such as ...

Innovative Zero-Energy Radiative Cooling Material at ...

Featuring the world's first structure built with a radiative cooling membrane that lowers temperatures without consuming any energy, the ...

Osaka Expo highlights the challenge of holding events in Japan's ...

So far, the Osaka Expo appears to have been successful in avoiding a surge in heatstroke cases — in all of July, organizers ...

Future climate impacts on urban office Buildings: Energy, comfort, and ...

This study explores the thermal performance and energy demands of a six-story office building in Osaka, Japan, under current (2020s) and projected (2090s) climate conditions.

Japan Meteorological Agency

Weather Daily Forecasts Three-hourly Forecasts Two-week Temperature Forecast
Early Warning Information on Extreme Weather Seasonal Forecasts Weather Maps UV
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Effects of adaptation measures to extreme heat throughout medium ...

However, it is possible to recognize air temperature and humidity characteristics as spatial differences by comparing them with existing meteorological station. Wind velocity and direction, and solar ...

Daikin debuts natural Ice Cool Spot at World Expo 2025 Osaka

Equipped with green solar panels, the roof blends in with the surrounding trees for a design that beautifully harmonises with nature when seen from above and serves as a symbol of Osaka Expo 2025.

Film-Type Perovskite Solar Cells on Smart Pole at ...

HIS, Saule Technologies, and Fujipream will provide and implement film-type perovskite solar cells on the smart pole installed by Japan Network Support in ...

Transparent Solar Panels: Transforming Skyscrapers

Because they are transparent, these solar cells can absorb heat and generate electricity when installed on windows and exterior walls of high-rise ...

Effects of adaptation measures to extreme heat throughout ...

From this standpoint, we analyzed air temperature, humidity, upper-air wind velocity and direction, and solar radiation.

Contact Us

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