# Japanese soft film solar power generation

## Overview

Japan is leading the charge in renewable energy innovation with the development of lightweight, film-type chalcopyrite solar cells designed for installation on industrial roofs with low load-bearing capacity, marking a significant step towards a carbon-neutral future. Sekisui Chemical has officially launched SOLAFIL, Japan's first commercially produced film-type perovskite solar cell. This innovative technology offers a . At Expo 2025 in Osaka, Japan is using an unexpected location-a bus terminal-to highlight its latest innovation: ultrathin "perovskite" solar panels, according to Nikkei. More than 250 of these flexible, lightweight panels line the curved roof of the Yumeshima Transportation Terminal 1. Japan hopes this film-like solar tech will not only boost domestic renewable energy and reduce reliance on China, but also help it lead the next generation of solar innovation. Illustration of innovative . Japanese film solar power generation Why are perovskite solar cells gaining attention in Japan?

Due to the scarcity of suitable terrainfor the installation of photovoltaic generation facilities in Japan,perovskite solar cells are attracting attention to further expand the introduction of renewable .

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[Japan's solar innovation introduces film-thin panels for delicate ](#)

Japan is taking significant strides in solar technology with its innovative film-type solar panels, designed specifically for rooftops that cannot support traditional heavy solar installations.

## Perovskite Solar Goes Commercial: Sekisui Chemical Launches

On March 27, 2026, Sekisui Chemical Industries and its subsidiary Sekisui Solar Film (SSF) officially announced the commercial launch of "SOLAFIL," a film-type perovskite solar cell. This marks the first

## Japan's Film-Like Solar Panels Revolutionize Rooftop Energy

Japan is making significant strides in renewable energy with the development of ultra-thin, flexible solar panels, primarily made from perovskite, a breakthrough poised to transform how solar

[Japan's new solar film aims to power rooftops ruled out by heavy ](#)

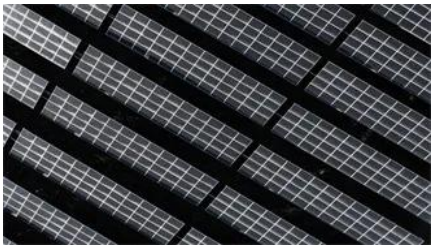
This development project marks the first time in Japan that film-type chalcopyrite solar cells will be installed on roofs with low load-bearing capacity, such as slate roofs.

## Japanese film solar power generation

Japan is spearheading the development of two promising technologies to make optimal use of both the Earth and space and fully harness the Sun''s power as electricity: space-based solar power and next

## Konica Minolta aims to double life of flexible solar cells with new film

TOKYO -- Japanese optical equipment maker Konica Minolta is preparing to produce a protective film that can double the life of thin, bendable solar panels to roughly 20 years.



## Japan Bets On Super Thin, Film-Like Panels to Reclaim Solar

Japan hopes this film-like solar tech will not only boost domestic renewable energy and reduce reliance on China, but also help it lead the next generation of solar innovation.

## "This Could Make Every Roof a Power Plant": Japan's Ultra-Thin Solar

Japan is leading the charge in renewable energy innovation with the development of lightweight, film-type chalcopyrite solar cells designed for installation on industrial roofs with low load

## A Solar Film That Lets Crops Grow While Generating Electricity

A Japanese team is developing a light-selective solar film that can be draped over greenhouses,

harvesting green light for electricity while allowing the wavelengths plants need to pass

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