



**BUHLE POWER**

# **Tokyo solar Tiles**





## Overview

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What is Japan doing with piezoelectric floor tiles?

Japan's pioneering work with piezoelectric floor tiles at Tokyo stations represents just one piece of a global movement to harvest energy from human movement.

What percentage of Tokyo's rooftops are solar?

Also speaking at World Smart Energy Week, Kazumi Arai, system coordination manager for Tokyo Metropolitan Government (TMG) noted that while an estimated 70% of greenhouse gas emissions in Tokyo come from buildings, just 4.24% of the city's rooftops currently have solar installed.

How many solar panels are there in Tokyo?

The capital has around 2.67 million buildings and houses, but only 4 percent, or around 100,000, have solar panels. Mega solar installations boasting gigantic panels with a capacity of 1,000 kilowatts or more are also rare in Tokyo, where there are not many open spaces.

What does Tokyo's new SOLAR rule mean for a house builder?

In Tokyo, the new rule will place an obligation on large house builders – those with projects covering more than 20,000 m<sup>2</sup> per year – to add solar to new houses and other buildings with less than 2,000 m<sup>2</sup> floor space.



## Tokyo solar Tiles



### [Solar Tiles for Rooftop PV Market](#)

In Japan, Tokyo Electric Power Company (TEPCO) offers solar tile leases at \$0.10/kWh with a 15-year maintenance guarantee, targeting homes with aged roofing. The program achieved

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### [Tokyo ordinance requires new homes come with solar panels](#)

Dec 16, 2022 · The Tokyo metropolitan assembly adopted an ordinance on Dec. 15 requiring new homes and buildings to be outfitted with solar panels with the aim of curbing rising carbon ...



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### [Factory Direct: Japanese Solar Roof Tiles](#)

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### [Capturing Energy from Footsteps. How Smart ...](#)

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Land LimitationsJapan Solar Feed-In Tariffs by System TypeSolar MandatesRooftop MarketIncentives for new solar installation are also appearing at regional level and are primarily focused on rooftop PV. Since 2020, the city of Kyoto has had requirements in place for new and renovated buildings with a floor space of larger than 2,000 m<sup>2</sup> to install solar panels. In December 2022, Tokyo took this a step further by extending the requirement. See more on pv-magazine.hiitio



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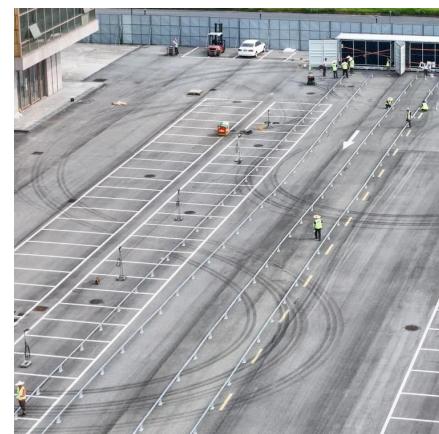
### [The Power Beneath Your Feet , Sci-tech](#)



Mar 18, 2020 · Soundpower has conducted a variety of research on the use of its power-generating tiles. In December of 2008, for example, it tested ...

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#### [Tokyo's new solar panel mandate: 'Can Japan avoid Germany's solar ...](#)

Apr 11, 2025 · This article covers considerations on Tokyo's new solar panel installation mandate, current energy generation challenges and examples from Germany's initiatives.



### [Exhibition preview: SGBSOLAR to attend the JAPAN BUILD TOKYO ...](#)

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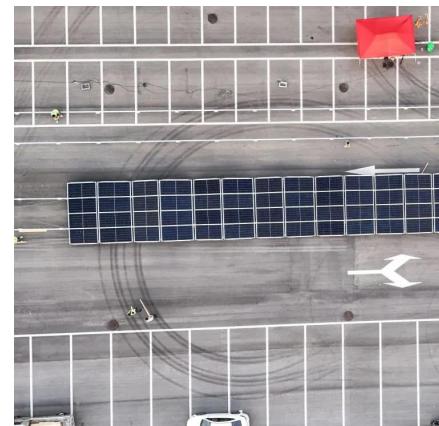


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