

# Musk predicts photovoltaics and energy storage



## Overview

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Tesla CEO Elon Musk stressed the importance of home energy independence during the company's Q4 and full-year 2024 earnings call, suggesting that solar panels and battery storage could be essential for households in the event of grid failures. Elon Musk targets 100 GW of annual solar manufacturing for both Tesla and SpaceX within three years to solve the energy bottleneck threatening the AI revolution. Image: Daniel Oberhaus / Wikimedia Commons In addition to championing solar-powered space-based AI at the World Economic Forum (WEF) in . The dream of space photovoltaics will become a reality. Elon Musk: Build a space AI computing center. Photovoltaic tycoons: The same solar panel can generate 7 to 10 times more electricity in space than on Earth. The power generation of space photovoltaics is 7-10 times higher, and perovskite is . Space-based solar could power AI more efficiently than on Earth, with full-scale deployment possible in two to three years, Elon Musk said last week in Davos, Switzerland. He explained that a small area in Texas or New Mexico could power the entire U. "It won't be long" before Tesla's stationary energy storage business is shipping 100GWh a year, CEO Elon Musk has claimed. The electric vehicle (EV) OEM released its Q3 2024 financial results on Wednesday (23 October). While automotive revenues remained relatively flat with a 2% year-on-year . Elon Musk is bringing the same revolutionary thinking that helped him upend the car industry to the data center business with promises this week to put up to a million new satellites in the sky FILE - A SpaceX logo is displayed on a building, May 26, 2020, at the Kennedy Space Center in Cape .

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### Unveiling the Mystery Behind Elon Musk's Exploration of the

Musk proposed using photovoltaics to power AI data centers. This is not only a response to the trend of green energy but also opens up a brand - new imagination space for the photovoltaic

### [Musk vows to put data centers in space and run them on solar power](#)

But scientists and industry experts say even Musk - who outsmarted Detroit to turn Tesla into the world's most valuable automaker - faces formidable technical, financial and environmental obstacles.



### [Elon Musk Just Revealed a Mind-Blowing Solar Energy Plan That](#)

Elon Musk thinks it's not only possible but essential for humanity's future. Drawing on a bold calculation and an even bolder vision, Musk outlines how solar energy could reshape our

### [Elon Musk at WEF: SpaceX and Tesla to produce 100 GW each of PV](#)

In addition to championing solar-powered space-based AI at the World Economic Forum (WEF) in Davos, Switzerland, last week, Tesla founder and CEO Elon Musk also shed light on earth



### Musk Vows to Put Data Centers in Space and Run Them on Solar



### **Musk at WEF: Solar space-based AI data centers**

Space-based solar could power AI more efficiently than on Earth, with full-scale deployment possible in two to three years, Elon Musk said last week in Davos, Switzerland.

To finance that effort, Musk combined SpaceX with his AI business on Monday and plans a big initial public offering of the combined company. "Space-based AI is obviously the only way to



### **Elon Musk on why 'all energy generation will be solar'**

Musk has been confident about building a business around solar energy and runs Tesla's Solar division, which provides rooftop panels along with energy storage solutions.

### ["You'll die" - Elon Musk issues a warning to mankind after solar energy](#)

Tesla CEO Elon Musk stressed the importance of home energy independence during the company's Q4 and full-year 2024 earnings call, suggesting that solar panels and battery storage



### **Space Photovoltaics Dream to Become Reality: Elon Musk Plans**

However, due to the intermittent nature of power generation, energy storage systems are necessary to meet electricity demand. In contrast, the power generation of space photovoltaics is

[Tesla's energy storage business 'growing like wildfire', Musk says](#)

Musk, setting aside his activities endorsing Donald Trump's presidency and paying Republicans to register for voting, said on the earnings call that "the energy storage business is



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