

What is reflect Orbital?

Reflect Orbital sells sunlight from orbit to solar farms and large-scale lighting applications after sunset using a very large constellation of in-space reflectors. More hours of sunlight translates into higher solar energy production for existing solar farms and other economic benefits.

How does reflect Orbital sell sunlight?

Reflect Orbital's concept of selling sunlight is based on a recognition of an untapped demand for light, especially in industrial processes that slow down or halt after sunset. "Construction projects, for example, could move twice as fast with continuous daylight," Semmelhack explained.

Could 'reflect orbital' be a space venture?

The potential applications range from lighting up entire cities to providing solar farms with much-needed energy during the night. The journey to secure funding for such an ambitious venture wasn't easy. Reflect Orbital caught the eye of Sequoia Capital, becoming the firm's first space investment since SpaceX in 2020.

Can a 'reflect orbital' project a 5-kilometer-wide spot of light?

We've developed a system where we can project a 5-kilometer-wide spot of light anywhere in the world after sunset. "Reflect Orbital plans to sell sunlight by placing a massive mirror in space that reflects sunlight onto the Earth, a strategy that the Soviet Union tried many years ago."

Is 'reflect orbital' a space investment?

Reflect Orbital caught the eye of Sequoia Capital, becoming the firm's first space investment since SpaceX in 2020. "It took us a while to close the deal," Semmelhack admits. Investors struggled to grasp the concept, often questioning the feasibility of reflecting sunlight from space on such a scale.

Could reflect Orbital replace traditional streetlights with projected sunlight?

Reflect Orbital's satellites could replace traditional streetlights with projected sunlight, Semmelhack told the Review, drastically reducing costs and energy consumption. As for the broader implications of Reflect Orbital's work, Semmelhack sees it as a return to first principles in the energy debate.

In a world where Stanford startups increasingly churn out iterations of food delivery apps and poorly disguised duplicates of ChatGPT, original thinking and boundless ambition are rare traits. However, these traits are at the core of Reflect Orbital, an energy startup with a mission so audacious it borders on science

Reflect Orbital, a California-based startup has introduced a novel concept aimed at enhancing solar power generation. The company plans to launch 57 satellites equipped with large, reflective Mylar mirrors into space, to extend solar energy production beyond traditional daylight hours. This innovative approach has the potential to address one of the key challenges ...



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Reflect Orbital is a planned satellite project developed by a startup called Reflect. The project aims to create a space-based social media platform by launching a constellation of satellites into low Earth orbit (LEO).

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Kelvin Energy. BrightSource Energy specializes in software-based optimized distributed power dispatch within the renewable energy sector. The company offers an Energy Management System that enhances the efficiency and profitability of renewable energy resources through advanced generation optimization, AI-driven market participation, and automated bidding.

Reflect Orbital General Information Description. Developer of solar light reflecting panels designed to provide reflected sunlight at night. The company uses its reflectors in space to shine ...

Dr. Erkin Sidick spent 20+ years as a Senior Optical Engineer at NASA-Jet Propulsion Laboratory (JPL) where he focused on space telescope projects used for direct detection of exo-planets, in the areas of optical design, integrated modeling and optical simulations, metrology, wavefront sensing and control, seismic imaging and atmospheric refraction.

reflectorbital . Overview & Products; Financials; People; Alternatives & Competitors; Total Raised \$6.5M. Investors Count 6. Funding, Valuation & Revenue. 2 Fundings. Reflect Orbital has raised \$6.5M over 2 rounds. Reflect Orbital's latest funding round was a Seed VC - II for \$6.5M on September 24, 2024. Date. Round.

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Reflect Orbital General Information Description. Developer of solar light reflecting panels designed to provide reflected sunlight at night. The company uses its reflectors in space to shine sunlight on panels at night and to offer sunlight to increase the output of existing infrastructure without additional costs, enabling solar farm owners to generate electricity even after sunset.

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