



FTMRS SOLAR

# Finland's space-based solar base station





## Overview

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Where is the first commercial ground station in Finland?

First Commercial Ground Station in Finland Starts Service on X and S Bands  
Finnish new space company NorthBase Oy (Ltd.) has finalized its first ground station NorthBase-2 in Muonio, Finnish Lapland. The station is the first commercial ground station in Finland, supporting downlink on S and X bands and uplink on S band.

Could a space solar power station be the first?

As SBSP technology improves, many nations might compete to be the first in developing fully operational space solar power stations for the sake of securing energy independence and the economic advantages brought by an unlimited power source.

What is space based solar power?

8850501 Introduction 1.1 Background Space Based Solar Power concepts promise the generation of large amounts of renewable power by launching vast Solar Power Satellites (SPS) into space and beaming.

Which space systems have significant mass and solar panel area?

To provide context, consider two examples of space systems with significant mass and solar panel area: an aggregated mass, the International Space Station (ISS); and a distributed mass, a constellation of 4,000 Starlink v2.0 satellites. The solar panel area is 11.5km<sup>2</sup> for RD1 and 19km<sup>2</sup> for RD2.



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The Future of Energy: Unlocking the Potential ...

Sep 5, 2025 · This balance between competition and cooperation will shape the future of global space energy efforts. Conclusion Space-based solar ...

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Space-Based Solar Power

Jan 19, 2024 · Report ID 20230018600 This study evaluates the potential benefits, challenges, and options for NASA to engage with growing global interest in space-based solar power ...

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Finland's NorthBase Joins Infostellar Ground Network

Aug 25, 2025 · Finnish ground station services provider NorthBase has new partnerships with Infostellar and Atlas Space Operations for access to its ground station. NorthBase announced ...

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Front page

Mar 11, 2025 · SSC and ICEYE signed LOI to strengthen Nordic and NATO space-based capabilities Swedish Space Corporation SSC and ICEYE ...

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Finland's NorthBase Joins Infostellar Ground ...

Aug 25, 2025 · Finnish ground station services provider NorthBase has new partnerships with Infostellar and Atlas Space Operations for access to its ...

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Space-based solar power , Definition, History, ...

Space-based solar power, the collection in space of solar energy, which is then transmitted as a microwave or laser beam to the ground and ...

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NorthBase opens Satellite Ground Station ...

First Commercial Ground Station in Finland Starts Service on X and S Bands Finnish new space company NorthBase Oy (Ltd.) has finalized its first ...

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Front page

Mar 11, 2025 · SSC and ICEYE signed LOI to strengthen Nordic and NATO space-based capabilities Swedish Space Corporation SSC and ICEYE have signed a Letter of Intent (LOI) ...

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Space-based Solar Power as a Catalyst for Space Development

Feb 1, 2022 · To the extent that space development is a priority for any government or entity, this paradox must be surmounted. Space-based solar power (SBSP) production may represent the ...

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### Survey of Space Based Solar Power (SBSP)

Oct 1, 2024 · OVERVIEW Over the past decade, Space Based Solar Power (SBSP) - the use of satellites to capture solar energy and transmit it wirelessly to receiving stations on the ground ...

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### The Future of Energy: Unlocking the Potential of Space-Based Solar

Sep 5, 2025 · This balance between competition and cooperation will shape the future of global space energy efforts. Conclusion Space-based solar power, which used to be an interesting ...

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### Infostellar Ground Network sees Finland's ...

Aug 27, 2025 · Finland's NorthBase has announced that it is joining a partnership with Infostellar and Atlas Space Operations for access to its ...

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### Space Based Solar Power Summary Report

Apr 16, 2024 · There is significant interest in pursuing Space Based Solar Power (SBSP) technology, recently renewed due to the need to decarbonise the energy supply in order to ...

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### Space-based solar power , Definition, History, Advantages,

Space-based solar power, the collection in space of solar energy, which is then transmitted as a microwave or laser beam to the ground and converted into electrical energy. The idea of ...

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### Infostellar Ground Network sees Finland's NorthBase join ...

Aug 27, 2025 · Finland's NorthBase has announced that it is joining a partnership with Infostellar and Atlas Space Operations for access to its ground station in Lapland. NorthBase, the ...

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