



FTMRS SOLAR

# High-efficiency solar-powered containers for ships





## Overview

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Can solar power be used in inland shipping?

For the first time in inland shipping, solar energy can be transferred directly to the vessel's drivetrain, advancing clean propulsion technology. The Blue Marline is the first inland shipping vessel capable of hybrid sailing with solar power. Wattlab.

Can solar panels be used on cargo ships?

The possibility of using solar photovoltaic (PV) modules aboard cargo vessels in Dutch waterways was investigated in research by Jong and Ziar. The goal of the project was to reduce CO<sub>2</sub> emissions by equipping inland cargo boats with PV panels.

How much solar energy can a ship generate a day?

The proposed system could generate 5.8 kWh of solar energy per day, enabling up to 7 h of daily operation. The ship utilized a photovoltaic generation system, a diesel engine, battery energy storage, a hybrid control system, and an inverter.

Can solar PV systems be used on ships?

The research aimed to enhance overall reliability, islanding protection, and fault detection of DC grid-connected solar PV systems on ships. The study suggested directions for implementing larger solar systems and improving hybrid control techniques.



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World's 1st Sun-Powered Inland Shipping Vessel Has 192 Solar ...

Jul 13, 2025 · Researchers developed the world's first inland shipping vessel that harnesses both solar power and generator power.

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"This Solar Ship Is the Future of River Travel," Declares ...

Jul 11, 2025 · IN A NUTSHELL ? The Blue Marlin is the first inland vessel to directly use solar power for propulsion, revolutionizing sustainable shipping. ? A collaboration between Wattlab ...

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World's First Hybrid Solar-Powered Inland Cargo Vessel Sets ...

Jul 17, 2025 · German inland shipping operator HGK Shipping, in partnership with Dutch solar technology firm Wattlab, has introduced the Blue Marlin, the world's first inland cargo ship to ...

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World's First Hybrid Solar-Powered Inland Cargo Ship ...

Jul 12, 2025 · Dutch marine solar developer Wattlab has equipped HGK Shipping's inland cargo ship, The Blue Marlin, with a groundbreaking solar energy system. This vessel is the world's ...

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A review of the applications of solar photovoltaic in marine ...

Oct 15, 2025 · Pratama and Arifin [118] explored the concept of a solar-powered ship for island tourism in Labuan Fajo, Indonesia, finding that while thin film and polycrystalline silicon solar ...

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"This Solar Ship Is the Future of River Travel," ...

Jul 11, 2025 · IN A NUTSHELL ? The Blue Marlin is the first inland vessel to directly use solar power for propulsion, revolutionizing sustainable ...

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World's first inland solar ship to glide on sun ...

Jul 8, 2025 · World's first hybrid solar cargo ship to sail with 192 panels for 37,500 kWh power yearly For the first time in inland shipping, solar ...

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First Solar Powered Inland Shipping Vessel

Jul 9, 2025 · The Blue Marlin becomes the world's first inland shipping vessel to use solar power directly for propulsion. Learn about this solar powered inland shipping vessel innovation.

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Navigating Tomorrow with Autonomous, Solar-Powered Container Ships

November 27, 2024 Imagine a revolutionary vision of the maritime industry: autonomous, solar-powered container ships that blend cutting-edge engineering with environmental stewardship. ...

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World's First Solar-Powered Ship Arrives

Jul 22, 2025 · Recently, the world's first hybrid bulk carrier with solar propulsion capability, the "Blue Marlin," made its official debut in Hamburg, Germany. This inland vessel, jointly ...

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### The Blue Marlin, World's First Hybrid Solar ...

Jul 12, 2025 · The Blue Marlin's solar system is fully connected to its engine, making this ship more powerful and efficient. The ship uses smart ...

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