

Hydrogen solar container demonstration system





Overview

On August 11, 2025, from its Iowa City, Iowa headquarters, SunHydrogen unveiled the first live run of its 1.92 m² solar-to-hydrogen module. Housed in an open prototype enclosure, it churned out hydrogen and oxygen thanks to sunlight and water alone—no grid power, no conventional. Explore videos highlighting our breakthrough renewable hydrogen technology and real-world demonstrations from global events—showcasing the potential to transform the hydrogen industry. SunHydrogen has successfully demonstrated live operation of its commercial size 1.92m² hydrogen module, producing. – Today, Duke Energy Florida unveiled its DeBary Hydrogen Production Storage System in Volusia County, the first demonstration project in the United States capable of using an end-to-end system to produce, store and combust up to 100% green hydrogen. How it works This one-of-its-kind system begins. SunHydrogen has successfully demonstrated live operation of its commercial-size 1.92m² hydrogen module, producing renewable hydrogen using only sunlight and water. This major milestone showcases the scalability and off-grid potential of the company's renewable hydrogen production technology. Well, SunHydrogen just flipped the script by firing up a 1.92 m² photoelectrochemical (PEC) module that snatches water apart using nothing but sunlight—off-grid and live. This isn't some tiny benchtop demo; it's a full-blown, field-scale reactor, pushing the boundaries of hydrogen production and. SunHydrogen, Inc., developer of a breakthrough technology to produce renewable H₂ using sunlight and water, announced the successful live operation of its 1.92 m² (20.7 sq. ft.) H₂ module. Conducted in an open prototype housing, the demonstration marks a pivotal milestone in the company's path.



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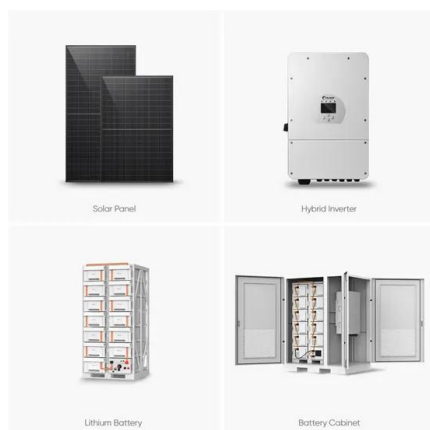


Duke Energy Florida unveils nation's first system

Duke Energy Florida unveiled its DeBary Hydrogen Production Storage System in Volusia County, the first demonstration project in the United States capable of using an end-to-end system to ...

SunHydrogen Demonstrates Commercial 1.92m² Hydrogen Module -- ...

With this year's launch of our multi-panel solar-to-hydrogen system at UT Austin's Hydrogen ProtoHub, we will be advancing towards commercial viability--bringing us closer to ...



SunHydrogen Achieves Live Demonstration on Hydrogen Module

Engineered to operate independent of the electrical grid, the system integrates solar collection and hydrogen production into a single unit, offering a modular and scalable solution for ...

SunHydrogen Video Library , Renewable Hydrogen ...

Explore videos highlighting our breakthrough renewable hydrogen technology and real-world demonstrations from global events--showcasing the potential to transform the hydrogen industry.



Pilot-scale hydrogen energy utilization system demonstration: A

A demonstration of the Hydro Q-BiC®, i.e., a pilot-scale green hydrogen energy utilization system consisting of 64.75-kW photovoltaic (PV) panels, a 5-Nm³/h water electrolyzer, 40 Nm³ of ...



Duke Energy Florida unveils hydrogen production storage system

Duke Energy Florida, a subsidiary of Duke Energy, on Jan. 7 unveiled its DeBary Hydrogen Production Storage System in Volusia County, Fla., the first demonstration project in the United States capable ...



SunHydrogen Demonstrates Commercial 1.92m² Hydrogen Module -- ...

SunHydrogen has successfully demonstrated live operation of its commercial-size 1.92m² hydrogen module, producing renewable hydrogen using only sunlight and water. This major ...





SunHydrogen achieves live demonstration of H2 module

With this year's launch of our multi-panel solar-to-H₂ system at UT Austin's H₂ ProtoHub, we will be advancing towards commercial viability--bringing us closer to delivering cost ...



Watch SunHydrogen's 1 m² Solar-to-Hydrogen Panel in ...

SunHydrogen debuts a new video demonstration of its 1 m² green hydrogen panel--showing clean, self-contained hydrogen production using ...

Project Description

The aim of the H₂Demo project is to produce the first large-scale demonstrators for direct solar hydrogen production. This is the absorption of sunlight in a semiconductor structure that generates a ...



Solar-to-Hydrogen Pilot Plant Reaches Kilowatt Scale

The solar-to-hydrogen plant is the largest constructed to date, and produces about half a kilogram of hydrogen in 8 hours, which amounts to a little over 2 kilowatts of equivalent output power.



SunHydrogen Demo Accelerates Hydrogen Production with 1.92 m²

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Their press release made it clear: this system collects solar energy with built-in semiconductor absorbers and drives water-splitting catalysts all within a single device. It's a big leap ...

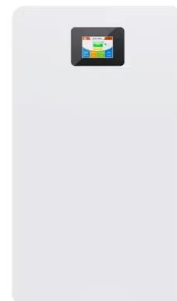


Trina container H2 production equipment shipped to Europe

The MW level container H2 production equipment independently developed and manufactured by Trina Green Hydrogen was successfully offline and officially shipped from China to ...

Hydrogen production equipment in containers - ...

It is mainly used to study the mechanism of hydrogen production from alkaline electrolytic water (including catalyst, diaphragm and electrolyzer structure), to ...



The wind/hydrogen demonstration system at Utsira in Norway: ...

An autonomous wind/hydrogen energy demonstration system located at the island of Utsira in Norway was officially launched by Norsk Hydro (now StatoilH...)



Trina sends containerised hydrogen system for Portugal demo project

Trina Green Hydrogen, a subsidiary of Chinese solar manufacturer Trina Solar, has successfully shipped a MW-level container hydrogen production equipment to Europe, it said this week.



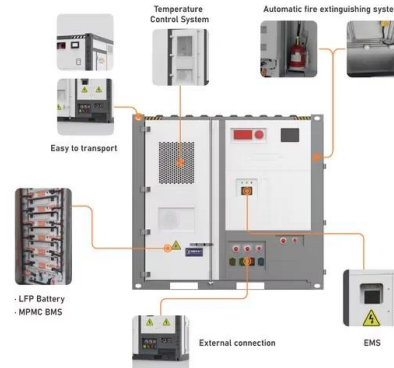
Green Hydrogen Demonstration Plant at VOC Port, Tamil Nadu

GH2 Solar has successfully commissioned a fully integrated Green Hydrogen Demonstration Plant at V.O. Chidambaranar Port Authority (VOCPA), Tuticorin, Tamil Nadu.

SunHydrogen Demo Accelerates Hydrogen Production with 1.92 m²

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On August 11, 2025, from its Iowa City, Iowa headquarters, SunHydrogen unveiled the first live run of its 1.92 m² solar-to-hydrogen module. Housed in an open prototype enclosure, it churned out hydrogen ...



Demonstration project of the solar hydrogen energy system ...

The hydrogen produced by the electrolyzer is compressed and stored in hydrogen vessel and provides energy for the fuel cell to meet the load when the solar energy is insufficient. This study investigates ...



H2Demo - Green Hydrogen Produced by Direct Solar Water Splitting

Green hydrogen is produced using renewable electricity. Up to now, solar or wind power have been used to drive the chemical reaction in a water electrolyzer. The method for direct solar ...

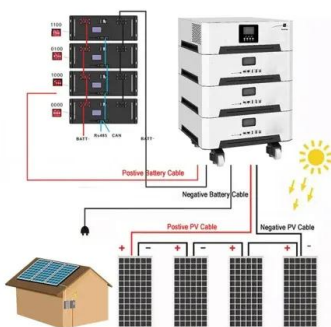


China's integrated solar power, hydrogen and energy storage project

"China's largest" integrated offshore photovoltaic (PV) demonstration project, combining solar power, hydrogen production and refueling, and energy storage, has been connected to the grid ...

Training and Demonstration Unit for Solar & Hydrogen Fuel Cell

The Heliocentris Dr. FuelCell Professional is a training system for hands-on teaching of solar hydrogen technology and energy storage. Various modules reprod



TECHNOLOGY DEMONSTRATION OF LARGE-SCALE PHOTO ...

This Joint Undertaking receives support from the European Union's Horizon 2020 research and innovation programme and Hydrogen Europe and N.ERGHY TECHNOLOGY DEMONSTRATION ...



H2-View News: SunHydrogen demonstrates off-grid, commercial

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Totalling more than 30 m² of active area, the modules will be located within a closed, proprietary housing for continuous hydrogen and oxygen production at UT Austin's Hydrogen ProtoHub.



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