

European Solar Energy Storage

National demonstration of hydrogen energy storage



Overview

LOS ANGELES-- Southern California Gas Co. (SoCalGas) and GKN Hydrogen today announced the commissioning of a research demonstration project with the U.S. Department of Energy's (DOE's) National Renewable Energy Laboratory (NREL) on an innovative clean renewable hydrogen .

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The project, which will be located at NREL's Flatirons Campus in Arvada, Colo., uses GKN Hydrogen's storage technology to store hydrogen in a solid state (metal hydrides) compared to traditional gaseous storage tanks. The demonstration aims to evaluate the technology's performance and integration.

Hydrogen purity meters measure the composition of hydrogen gas, determining the percentage of hydrogen in the gas mixture. Ensuring that the hydrogen is of the correct purity is critical for both the safety and the performance of fuel cells and other end-use applications. Leak Detection Meter: Leak.

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This groundbreaking strategy document explores opportunities for hydrogen to contribute to national goals across multiple sectors of the economy and provides a snapshot of hydrogen production, transport, storage, and end use today with a strategic framework for achieving large-scale production and.

The clean and renewable hydrogen demonstration project, located at NREL's Flatirons Campus in Arvada, Colorado, explores GKN Hydrogen's advanced

storage system, which stores hydrogen in a solid-state form using metal hydrides. Unlike traditional hydrogen storage methods that rely on high-pressure.

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SoCalGas, GKN Hydrogen and the National Renewable Energy

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The U.S. Department of Energy's Hydrogen and Fuel Cell Technologies Office provided \$1.7 million in funding to NREL to deploy GKN Hydrogen's innovative hydrogen storage subsystem.

Innovative Solid State Hydrogen Storage Demonstration

The demonstration aims to evaluate the technology's performance and integration with clean energy systems, such as microgrids or fuel cells. The project also aims to identify the most beneficial uses of solid-state storage of clean renewable hydrogen.



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Solid-state hydrogen-storage

demonstration project ...

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Hydrogen

6 ???· This groundbreaking strategy document explores opportunities for hydrogen to contribute to national goals across multiple sectors of the economy and provides a snapshot of hydrogen production, transport, storage, and end use today with a strategic framework for achieving large-scale production and use of hydrogen.

SoCalGas, GKN Hydrogen, and NREL Launch Solid-State Hydrogen Storage

Southern California Gas Co. (SoCalGas), GKN Hydrogen, and the U.S. Department of Energy's (DOE) National Renewable Energy Laboratory (NREL) have partnered to launch a research demonstration project focused on innovative clean and renewable hydrogen storage using solid-state technology.



SoCalGas, GKN Hydrogen and the National Renewable Energy

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"This demonstration project highlights how surplus renewable energy can be used to create and store clean renewable hydrogen to help

sustainably meet our country's growing energy demands," said



SoCalGas, GKN, NREL launch Solid State Hydrogen Storage

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This innovative project aims to evaluate the effectiveness of storing hydrogen in a solid state using GKN Hydrogen's technology, as opposed to traditional gaseous storage tanks.



SoCalGas, GKN Hydrogen and the National Renewable Energy

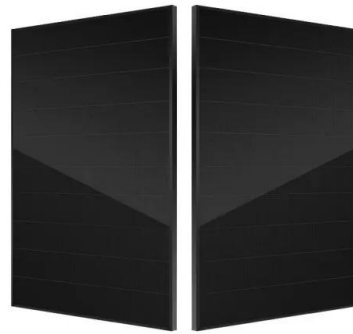
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Hydrogen Long Duration Energy Storage for Resilience (H2 ...

Meet resilience goals for a diversified portfolio of policies and agencies by demonstrating that the hydrogen-based long duration energy storage

(LDES) system on Flatirons campus can provide 24+ hours of backup power of at least 500 kW



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