

Hydrogen energy base station construction



Overview

California's SamTrans transit agency is pushing ahead with the construction of a permanent hydrogen fueling station at its North Base facility in South San Francisco, following approval of two key contracts with Trillium USA Company, LLC during the board's July 2025 meeting.



Article Content

Hydrogen Fueling Station Readiness

Please refer to our Hydrogen Station Permitting Guidebook for information and best practices for hydrogen station development. The Hydrogen Fuel Cell

California's Hydrogen Hub Has Arrived

In addition to specific transit operations, the project will include a variety of sites that will produce clean hydrogen, generate power using clean

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Hydrogen explained

Hydrogen can be produced, or separated, from a variety of sources—including water, fossil fuels, or biomass—and used as a source of energy or fuel. Hydrogen has the highest energy content of any

What is hydrogen energy and why is it important?

So what exactly is hydrogen energy and how could it be used as an alternative to fossil fuels? Watch as the BBC's energy and environment analyst Roger Harrabin explains.

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Station Map | H2FCP

Several hydrogen stations in California are currently unavailable due to a disruption in the gaseous hydrogen supply

Hydrogen

Hydrogen has been described as the “Swiss army knife” of energy because it plays a key role in several sectors where there are limited or no viable alternatives (including in applications

Hydrogen Facts, Symbol, Discovery, Properties, Uses

Hydrogen (pronounced as Hi-dreh-jen) is a colorless gas represented by the chemical symbol H. It is the first element in the periodic table, belonging to the family of nonmetals . Since hydrogen is a

SamTrans moving forward with plans for permanent hydrogen fueling ...

SamTrans is accelerating its shift to a cleaner, more sustainable bus fleet with the development of a permanent hydrogen fueling station at its North Base facility in South San

Hydrogen Facts

Hydrogen (H) is the first element of the periodic table and the most abundant element in the universe. Here is a collection of hydrogen facts, including its properties, uses, and sources.

Hydrogen

Hydrogen is a chemical element; it has the symbol H and atomic number 1. It is the lightest and most abundant chemical element in the universe, constituting about 75% of all normal matter.

Hydrogen

Element Hydrogen (H), Group 1, Atomic Number 1, s-block, Mass 1.008. Sources, facts, uses, scarcity (SRI), podcasts, alchemical symbols, videos and images.

DEPLOYMENT

Station planning and construction is just getting started in other states. This page provides a summary of lessons learned from California's initial station deployments.

SamTrans approves contracts for new hydrogen fueling

Californian public transport agency SamTrans is moving forward with the development of a permanent hydrogen fueling station at its North Base

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California's billion-dollar hydrogen hub project is

The leaders of California's embryonic hydrogen hub announced Wednesday that they have signed a contract with the U.S. Department of

SamTrans Approves \$20M Hydrogen Fueling Station

California's SamTrans transit agency is pushing ahead with the construction of a permanent hydrogen fueling station at its North Base facility in

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Hydrogen water: Does it have health benefits? | UT MD Anderson

Hydrogen water has been said to have potential benefits including antioxidant and anti-inflammatory properties. But is this science-backed? A dietitian shares her thoughts.

Hydrogen Energy Explained: Everything You Should Know

Hydrogen energy refers to the use of hydrogen as a clean and versatile energy carrier which is capable of storing, moving and delivering energy produced from diverse sources such as water, fossil fuels or

Hydrogen Refueling Stations in California

Open retail station: A station that meets stringent standards and is open to the public for the retail sale of hydrogen for use in FCEVs. Planned

Hydrogen | H₂ | CID 783

Hydrogen is a colorless, odorless gas. It is easily ignited. Once ignited it burns with a pale blue, almost invisible flame. The vapors are lighter than air. It is flammable over a wide range of vapor/air

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Air Products to Build Commercial-Scale Hydrogen Fueling Stations ...

Air Products intends to build a network of permanent, commercial-scale, multi-modal hydrogen refueling stations stretching from Northern California to Southern California.

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Hydrogen | Properties, Uses, & Facts | Britannica

The earliest known chemical property of hydrogen is that it burns with oxygen to form water; indeed, the name hydrogen is derived from Greek words meaning "maker of water."

57 Important Facts About Hydrogen That You Should Know

Hydrogen is a gas that naturally exists in the universe. It is the first element of the periodic table and occurs on Earth in vast quantities of water in the ocean, the ice packs, rivers and

Hydrogen Factsheet

Hydrogen is a feedstock and energy carrier used in multiple sectors. Global hydrogen demand reached 97 Mt in 2023, a 2.5% increase from 2022, with 10 Mt in the U.S. 1,2 Hydrogen is the most abundant

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