



California energy commission renewable hydrogen

Why is California launching a hydrogen hub?

What you need to know: With agreement signed and first round of funding secured, California is the first state to officially launch a Hydrogen Hub, an initiative to accelerate the development and deployment of clean, renewable hydrogen projects - cutting pollution and expanding clean energy.

Why does California need hydrogen?

WHY IT'S NEEDED: Expanding the market for clean, renewable hydrogen is key to achieving California's climate goals- especially for a clean electric grid, net-zero carbon emissions, and drastically cutting air pollution.

How much is California's hydrogen Hub worth?

The leaders of California's embryonic hydrogen hub announced Wednesday that they have signed a contract with the U.S. Department of Energy worth billions. The California hub is part of a \$7-billion federal project to build the infrastructure for a "clean" hydrogen economy to replace fossil fuels and reduce greenhouse gas emissions.

Does California need a green hydrogen hub?

California believes that it is necessary to create a green hydrogen hub, as stated by "We need federal, state, and private investment to accelerate market development to ensure we meet our carbon neutrality goals" and we are excited to work with stakeholders to build a world class hydrogen hub". Federal investments in green hydrogen in California will benefit the state and the nation.

What is the Clean Hydrogen program?

The Clean Hydrogen Program provides financial incentives to eligible in-state projects for the demonstration or scale-up of the production, processing, delivery, storage, or end use of clean hydrogen. These projects will help reduce sector-wide emissions.

What is California's hydrogen market development strategy?

SACRAMENTO - Governor Gavin Newsom has directed the Governor's Office of Business and Economic Development (GO-Biz) to develop California's Hydrogen Market Development Strategy, employing an all-of-government approach to building up California's clean, renewable hydrogen market.

The California Energy Commission's Clean Transportation Program (formerly known as the Alternative and Renewable Fuel and Vehicle Technology Program) announces the availability of up to \$115.7 million in grant funds, subject to future appropriations and Clean Transportation Program Investment Plan funding allocations, for hydrogen refueling ...



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The California hub -- known as ARCHES, or the Alliance for Renewable Clean Hydrogen Energy Systems -- will net \$1.2 billion of that federal money, with plans to bring in an additional \$11.2...

"A federal hydrogen hub grant could mean hundreds of millions of dollars or more for cleaner air in California through replacing dirty diesel trucks, port equipment, and more with clean, renewable hydrogen. And my bill, SB 1075, shows that California is ready to lead the nation in planning for a robust, clean hydrogen future."

The purpose of this solicitation is to fund a project that will evaluate the feasibility of using existing underground gas storage facilities to store clean renewable hydrogen[1] in California. This project will develop technical and economic assessments of storing and retrieving hydrogen blends and/or pure hydrogen as well as California-specific decision-making tools, ...

The California Energy Commission's (CEC's) Clean Transportation Program announces the availability of up to \$7,000,000 in grant funds for projects to design, engineer, construct, install, test, operate, and maintain a hydrogen facility in California that will produce 100 percent renewable hydrogen from in-state renewable resource(s).

LOS ANGELES - March 1, 2024 - Southern California Gas Co. (SoCalGas) today, along with three other California utilities, filed an application with the California Public Utilities Commission (CPUC) to develop a series of projects to demonstrate that blending clean hydrogen into the natural gas system is a safe and effective way to reduce greenhouse gas emissions, improve ...

The California Energy Commission (CEC) recognizes hydrogen as a vital component in the state's efforts to achieve carbon neutrality, emphasizing its potential to reduce emissions in the transportation sector, cater to industrial and commercial needs, and serve as a fuel for firm generation and energy storage.

SACRAMENTO - The California Energy Commission (CEC) today approved a \$1.9 billion investment plan that accelerates progress on the state's electric vehicle (EV) charging and hydrogen refueling goals. These investments will help deploy infrastructure for light, medium, and heavy-duty zero-emission vehicles (ZEV) across California, creating the most extensive ...

California Energy Commission, hydrogen fueling station, fuel cell electric vehicles (FCEV), zero emission vehicles (ZEV), renewable hydrogen . Please use the following citation for this report: ... account the prospects and challenges of increasing renewable hydrogen production; planning,

The California Energy Commission's Clean Transportation Program ... The program funds electric vehicle and hydrogen infrastructure, medium- and heavy-duty and natural gas vehicles, biofuels, and workforce development. ... also known as the Alternative and Renewable Fuels and Vehicle Technology Program (ARFVTP) was established by Assembly Bill ...



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The California Energy Commission's news releases are available by year. ... Renewable Energy & Decarbonization Incentives Division. Siting, Transmission, and Environmental Protection. Filter by Program Filter by Program Clean Hydrogen Program. Clean Transportation Program.

SACRAMENTO - The U.S. Department of Energy (DOE) and ARCHES announced the official signing of a landmark \$12.6 billion agreement to build a clean, renewable Hydrogen Hub in California, including the up to \$1.2 billion in federal funding that was announced last year when California was selected as a national hub. ARCHES is the first of seven Hydrogen Hubs ...

October 3, 2024 UPDATE: The 800-megawatt green hydrogen facility is no longer part of the project ... To accelerate the state's transition to renewable energy and to maintain electrical system reliability under this transition and during extreme climate-change-driven events, AB 205, as modified by AB 209 expands the types of facilities that ...

SACRAMENTO - The California Energy Commission (CEC) today approved a \$1.9 billion investment plan that accelerates progress on the state's electric vehicle (EV) charging and hydrogen refueling goals. These ...

The Renewables Portfolio Standard (RPS) is one of California's key programs for advancing renewable energy. The program sets continuously escalating renewable energy procurement requirements for the state's load-serving entities. Generation must be procured from RPS-certified facilities. The California Energy Commission verifies RPS claims.

Innovative project aims to tackle cost and sustainability to deliver affordable hydrogen at scale. The California Energy Commission awarded Southern California Gas Co. (SoCalGas) a \$750,000 grant to pursue development of a novel hydrogen production system using biogas to create affordable, scalable, renewable hydrogen.

Information about funding opportunities that the California Energy Commission offers that advance the state's transition to clean energy and transportation ... Light-Duty Hydrogen Infrastructure Build-Out. Grant Funding Opportunity Solicitation ... Renewable Energy & Decarbonization Incentives Division. Siting, Transmission, and Environmental ...

Innovative project aims to tackle cost and sustainability to deliver affordable hydrogen at scale. LOS ANGELES, June 8, 2022 /PRNewswire/ -- The California Energy Commission today awarded Southern California Gas Co. (SoCalGas) a \$750,000 grant to pursue development of a novel hydrogen production system using biogas to create affordable, scalable, renewable hydrogen.

The Alliance for Renewable Clean Hydrogen Energy Systems (ARCHES) led the application process for the award. At the time, ... (CEQA) and California Energy Commission (CEC) review for hydrogen production facilities that have received state or federal funding." The scope and content of the measure has been revised



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significantly since it was ...

In 2022, the Legislature passed Senate Bill (SB) 1075, which called for CARB, in collaboration with California Energy Commission and California Public Utilities Commission, to produce a ...

The California Energy Commission assesses and analyzes California's energy industry, supply, production, transportation, delivery and distribution, energy shortage contingencies, demand, and prices. The Energy Commission also forecasts electricity ...

Hydrogen Energy Storage and Renewable Hydrogen. California has bold climate objectives to reach 100% renewable power by 2045 and hydrogen is key component of this transition, as a method of storing and distributing renewable and low-carbon power. ... The CHBC Hydrogen Energy Storage and Renewable Hydrogen Sector Action Group seeks to educate ...

California Energy Commission. STAFF REPORT Senate Bill 643: Clean Hydrogen Fuel Production and Refueling Infrastructure to Support Medium- and Heavy-Duty Fuel Cell Electric Vehicles and Off-Road Applications; ... Roadmap for the Deployment and Buildout of Renewable Hydrogen Production Plants in California (2020)

The California Energy Commission is leading the state to a 100 percent clean energy future for all. As the state's primary energy policy and planning agency, the Energy Commission is committed to reducing energy costs and environmental impacts of energy use while ensuring a safe, resilient, and reliable supply of energy.

The California Energy Commission offers a variety of funding opportunities to advance the state's transition to clean energy and transportation through innovation, efficiency, and the development and deployment of advanced technologies. ... Information on funding opportunities for alternate fuels, energy efficiency, renewable energy, research ...

This is a competitive grant solicitation. The California Energy Commission's Clean Transportation Program (formerly known as the Alternative and Renewable Fuel and Vehicle Technology Program) announces the availability of up to \$115.7 million in grant funds, subject to future appropriations and Clean Transportation Program Investment Plan funding allocations, ...

and Fire Protection; California Energy Commission; California Fuel Cell Partnership; California Hydrogen Business Council; FirstElement Fuel; Fuel Cell & Hydrogen ... an increase in renewable hydrogen production and supply dedicated for transportation fuel, and a ...

July 21, 2022 - The California Public Utilities Commission (CPUC), in ongoing actions to assess the feasibility and safety implications of injecting hydrogen into the natural gas system, and in order to advance its deployment, has issued for comment a Study that represents a critical step in considering renewable hydrogen



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as a component in California's statewide decarbonization ...

LOS ANGELES, June 8, 2022 /PRNewswire/ -- The California Energy Commission today awarded Southern California Gas Co. (SoCalGas) a \$750,000 grant to pursue development of a novel hydrogen ...

The California Energy Commission (CEC) and other agencies are investing in MDHD ZEV infrastructure statewide. Skip to main content ... These scenarios use data from CARB's 2022 Scoping Plan, the Alliance for Renewable Clean Hydrogen Energy Systems (ARCHES) partnership, the California Transportation Commission's analysis for SB 671, and a ...

By January 1, 2026, California Energy Commission, California Air Resources Board, and California Department of Motor Vehicles must assess the economic equity of fee structures for ZEV and propose to the Legislature alternative fee structures for funding ZEV infrastructure. (Reference Assembly Bill 126, 2023) Zero Emission Vehicle (ZEV) Initiative

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