

What can Air Products do for You?

Air Products is using our experience as the world's leading hydrogen supplier to scale the supply of clean hydrogen, which can be used to decarbonize hard-to-electrify heavy industry and transportation. Our products and technologies will help drive industrial decarbonization and zero-emissions transportation.

Where is Air Products based?

Located in Southern California, this Air Products facility will be the world's first commercial-scale sustainable aviation fuel production facility. Air Products' green liquid hydrogen production facility powered by renewable hydro-electric power in Massena, New York.

Is Air Products a sustainable company?

Air Products (NYSE: APD) is a world-leading industrial gases company in operation for over 80 years focused on serving energy, environmental, and emerging markets. The Company has two growth pillars driven by sustainability.

What makes Air Products a first-mover in bringing the hydrogen economy to scale?

We have the technology, the track record, the capital, and the ambition to be a first-mover in bringing the hydrogen economy to scale. Air Products will invest \$4.5B to build-own-operate the world's largest blue hydrogen production facility, producing over 750 MMSCFD of blue hydrogen in Louisiana, USA.

What is Air Products' green liquid hydrogen production facility?

Air Products' green liquid hydrogen production facility powered by renewable hydro-electric power in Massena, New York. Clean hydrogen is essential to the energy transition and in decarbonizing heavy transportation and industry.

Why is Air Products investing billions in clean hydrogen production?

By investing billions in scaling clean hydrogen production, Air Products is showing the world we have the technology and expertise to generate a cleaner future. Air Products' Eric Guter, VP Hydrogen, on why strict standards for the 45V hydrogen tax credits will deliver real emissions reductions, creating the stimulus for broader investments.



Liquid air energy storage (LAES) represents one of the main alternatives to large-scale electrical energy storage solutions from medium to long-term period such as compressed air and pumped hydro energy storage. Indeed, characterized by one of the highest volumetric energy density (???200 kWh/m³), LAES can overcome the geographical constraints from which the ???



Liquid air energy storage (LAES), as a form of Carnot battery, encompasses components such as pumps, compressors, expanders, turbines, and heat exchangers [7] s primary function lies in facilitating large-scale energy storage by converting electrical energy into heat during charging and subsequently retrieving it during discharging [8].Currently, the ???



Air Products (NYSE:APD), the world leader in hydrogen production, and its subsidiary Air Products Canada Ltd., in conjunction with the Government of Canada and the Province of Alberta, today announced a multi-billion dollar plan to build a landmark new net-zero hydrogen energy complex that will make Edmonton, Alberta the centre of western Canada's ???



Long-duration energy storage (LDES) is the linchpin of the energy transition, and ESS batteries are purpose-built to enable decarbonization. As the first commercial manufacturer of iron flow battery technology, ESS is delivering safe, sustainable, and flexible LDES around the world.



Air Products' multi-billion major expansion project will produce sustainable aviation fuel (SAF) at World Energy's Paramount, California location. This site is the world's first commercial-scale SAF production facility.



Air Products' new net-zero hydrogen energy complex will make Edmonton, Alberta the centre of western Canada's hydrogen economy. Canada is well positioned to be a global hydrogen leader, which will help to create thousands of jobs, grow the economy, reduce emissions, and put Canada on a path to achieving net-zero by 2050.



Air Products is the world's leading supplier of hydrogen with over 65 years of experience in hydrogen production, storage, distribution and dispensing. We've implemented over 250 fueling stations in 20 countries, and our technology and hydrogen is responsible for over 1.5 million hydrogen fuelings annually.



Air Products' new net-zero hydrogen energy complex will make Edmonton, Alberta the centre of western Canada's hydrogen economy. Canada is well positioned to be a global hydrogen leader, which will help to create thousands ???



Air Products works with industry experts and governments on world-scale solutions to decarbonize, helping customers along their energy transition journey with renewable hydrogen. Bulk Deliveries/Storage Systems Air Products' clean energy complex in Eastern Louisiana will produce both blue hydrogen and blue ammonia.



Air Products offers a broad range of hydrogen supply and fueling infrastructure to enable the successful commercialization of hydrogen fuel cell vehicles around the world. Aers Energy Belgi? Selects Air Products to Build a State-of-the-Art Hydrogen Refueling Station in Zeebrugge, Belgium storage, distribution and dispensing. We've



Experimental set-up of small-scale compressed air energy storage system. Source: [27] At the moment, there are no commercial products available, and setting up your own system can be quite intimidating if you are new to pneumatics. Simply getting hold of the right components and fittings is a headache, as these come in a bewildering variety



This project is the first world-scale integrated supply chain innovation to make the dream of carbon-free energy a reality. Air Products is very proud to be part of this project. This project is ???



Compressed Air Energy Storage. In the first project of its kind, the Bonneville Power Administration teamed with the Pacific Northwest National Laboratory and a full complement of industrial and utility partners to evaluate the technical and economic feasibility of developing compressed air energy storage (CAES) in the unique geologic setting of inland Washington ???



Flywheels and Compressed Air Energy Storage also make up a large part of the market. ??? The largest country share of capacity (excluding pumped hydro) is in the United States (33%), followed by Spain and Germany. The United Kingdom and South Africa round out the top five countries.



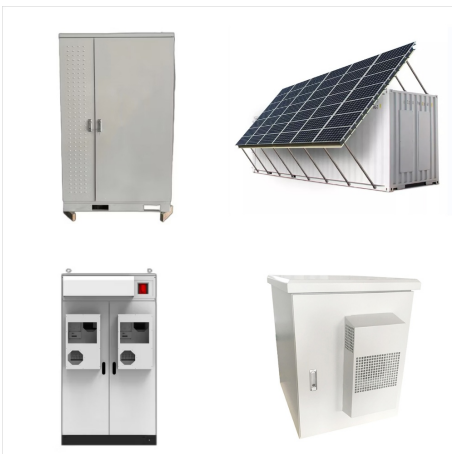
About Air Products. Air Products (NYSE:APD) is a world-leading industrial gases company in operation for over 80 years focused on serving energy, environmental, and emerging markets. The Company has two growth pillars driven by sustainability. Air Products' base business provides essential industrial gases, related equipment and applications expertise to customers ???



There are only two salt-dome compressed air energy storage systems in operation today???one in Germany and the other in Alabama, although several projects are underway in Utah. Hydrostor, based in Toronto, Canada, has developed a new way of storing compressed air for large-scale energy storage. Instead of counting on a salt dome, the company



? We've raised our fair value estimate to \$322 per share from \$309 following Air Products' fiscal 2024 fourth-quarter earnings release, mostly due to the time value of money.



CAES, a long-duration energy storage technology, is a key technology that can eliminate the intermittence and fluctuation in renewable energy systems used for generating electric power, which is expected to accelerate renewable energy penetration [7], [11], [12], [13], [14].The concept of CAES is derived from the gas-turbine cycle, in which the compressor ???



Air Products is the world's leading supplier of hydrogen with over 65 years of experience in hydrogen production, storage, distribution and dispensing. We provide turnkey hydrogen fueling solutions. Air Products is a World-Leading Hydrogen Supplier



LEHIGH VALLEY, Pa., June 11, 2018
/PRNewswire/ -- Air Products (NYSE: APD) today announced it will install energy storage systems at its industrial gas sites in Gumi City, as well as Onsan and



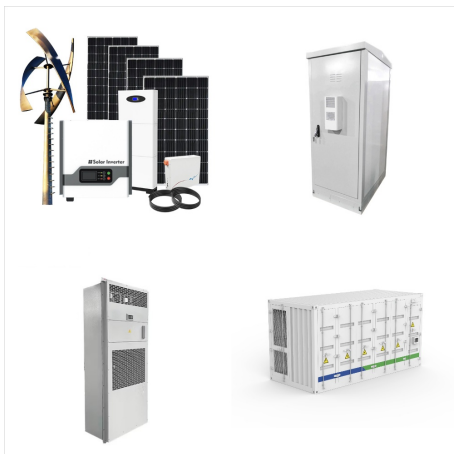
Hydrogen is a clean alternative to fossil fuels and is used in a wide range of transportation and power generation applications. As the world's largest hydrogen supplier and a leader in hydrogen fuel infrastructure, Air Products hydrogen for mobility brings safe, reliable and cost-effective hydrogen to hydrogen powered applications around the world.



Air Products Investor Call Air Products will host an investor teleconference about the World Energy project at 1:00 p.m. PT/4:00 p.m. ET on April 22, 2022. The teleconference will be open to the public and the media in listen-only mode by telephone and Internet broadcast. Live teleconference: 313-209-6672 Passcode: 3385729



Air Products is Invested in the Energy Transition. Air Products is using our experience as the world's leading hydrogen supplier to scale the supply of clean hydrogen, which can be used to decarbonize hard-to-electrify heavy industry ???



TotalEnergies and Air Products signed a 15-year agreement for the annual supply in Europe of 70,000 tons of green hydrogen starting in 2030. Bulk Deliveries/Storage Systems ; CryoEase(R) Microbulk Solutions committing more than \$15 billion dollars to real, large-scale energy transition projects and launching several large low carbon



Clean hydrogen produced from renewable energy sources will be essential to decarbonizing hard-to-electrify industrial processes like steelmaking and chemicals processing. Hydrogen can also provide a zero-emissions fuel ???



Described by the Department of Energy as a milestone in its Industrial Carbon Capture and Storage program, this unprecedented achievement, which uses an Air Products innovative technology, was the first-of-its-kind operating at such a large scale. Air Products and its subsidiary Air Products Canada Ltd., in conjunction with the Government



Air Products provide essential industrial gases, related equipment and applications expertise to customers in dozens of industries. Bulk Delivery and Storage Solutions . Worry-free bulk gas supply and delivery systems designed to meet your needs. Air Products' clean energy complex in Eastern Louisiana will produce both blue hydrogen



Air Products and AES * will jointly and equally own the renewable energy and electrolyzer assets, with Air Products serving as the exclusive off-taker and marketer of the green hydrogen under ???



As the world's largest hydrogen supplier, Air Products works across all facets of the hydrogen value chain, including production, distribution, storage, and dispensing and has been a pioneer in hydrogen fueling for decades. The company operates the world's longest hydrogen pipeline system and is a world-class liquid hydrogen supplier.



Air Products is partnering with Denbury Green Pipeline Office of Fossil Energy and Carbon Management; Air Products & Chemicals, Inc. (APCI) team to conduct one of 12 projects in Phase 1 of its Industrial Carbon Capture and Storage (ICCS) program. DOE again selected the project in June 2010 as one of three