

# Joint Press Release

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**Press release from Siemens Energy and Porsche**

## **Siemens Energy and Porsche, with partners, advance climate-neutral e-fuel development**

- World's first integrated commercial plant for producing climate-neutral fuel being built in Chile
- Innovations from Germany to industrialize synthetic fuels and decarbonize the mobility sector
- German Economy Ministry supports beacon project as part of national hydrogen strategy
- Porsche is planning to use e-fuels – initially on race courses and in vehicle trials, prospectively also in production sports cars

Siemens Energy, joined by sports car maker Porsche and a lineup of international companies, is developing and implementing a pilot project in Chile that is expected to yield the world's first integrated, commercial, industrial-scale plant for making synthetic climate-neutral fuels (e-fuels). In the pilot phase, around 130,000 liters of e-fuels will be produced as early as 2022. In two further phases, capacity is then to be increased to about 55 million liters of e-fuels a year by 2024, and around 550 million liters of e-fuels by 2026. Porsche will be the primary customer for the green fuel. Other partners in the project are the energy firm AME and the petroleum company ENAP from Chile and Italian energy company Enel.

The "Haru Oni" pilot project in Magallanes Province takes advantage of the excellent wind conditions in southern Chile to produce climate-neutral fuel with the aid of green wind power. As part of Germany's national hydrogen strategy, to support the project Siemens Energy will get a grant of some 8 million euros from the Federal Ministry for Economic Affairs and Energy, the ministry announced today.



**PORSCHE**

**Siemens Energy AG**  
Communications  
Leitung: Robin Zimmermann  
Otto-Hahn-Ring 6  
81739 München  
Deutschland

**Porsche AG**  
Öffentlichkeitsarbeit, Presse,  
Nachhaltigkeit und Politik  
Porscheplatz 1  
70435 Stuttgart  
Deutschland

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Christian Bruch, CEO von Siemens Energy: “Establishing a sustainable energy economy is going to require some rethinking. Renewable energy will no longer be produced only where it’s needed, but where natural resources like wind and sun are available on a massive scale. So new supply chains are going to arise all over the world to carry renewable energy from one region to another. That’s especially important for Germany, which – bottom-line – has to import energy if it’s going to meet its nationwide demand. Hydrogen will come to play an increasingly important role in storing and transporting energy. Which is why the German government’s support for the project is an important signal.”

Porsche CEO Oliver Blume: “Electromobility is a top priority at Porsche. E-fuels for cars are a worthwhile complement to that – if they’re produced in parts of the world where a surplus of sustainable energy is available. They are an additional element on the road to decarbonization. Their advantages lie in their ease of application: e-fuels can be used in combustion engines and plug-in hybrids, and can make use of the existing network of filling stations. By using them, we can make a further contribution toward protecting the climate. As a maker of high-performance, efficient engines, we have broad technical expertise. We know exactly what fuel characteristics our engines need in order to operate with minimal impact on the climate. Our involvement in the world’s first commercial, integrated e-fuels plant supports the development of the alternative fuels of the future.”

Federal Economy Minister Peter Altmaier: “Hydrogen is a key component for successfully carrying out the energy transformation in every sector. That’s why, with the National Hydrogen Strategy, we aim to take advantage of the opportunities that hydrogen offers for the climate, energy and economic policy. We know we won’t be able to cover our national demand out of domestic production alone, and will need international partnerships. So I’m very pleased to see that Siemens Energy and Porsche are developing production capacity in other countries, along with importing structures, for green hydrogen and its daughter products. Thanks to German know-how, for the first time in the world innovation from the laboratory will now be applied in an integrated, commercial plant.”

Siemens Energy is a co-developer of the “Haru Oni” project (also known as HIF project), and is serving as a systems integrator to cover the entire value chain – from power generation using Siemens Gamesa wind turbines, to producing green hydrogen, to conversion into synthetic fuel. The company’s flexible PEM (PEM = Proton Exchange Membrane) electrolysis is ideally suited for using volatile wind power.

As the fuel's main customer, Porsche is planning as a first phase to use the e-fuels from Chile in beacon projects. Those include using the e-fuel in vehicles for Porsche motorsports, at the Porsche Experience Centers and perspective also in serial production sports cars. The sports car maker will start with an initial investment of roughly 20 million euros.

AME is the primary developer and owner of the HIF (Highly Innovative Fuels) project company. Enel is a co-funder of the plant, with a focus on wind power and electrolysis. ENAP will support the project by providing operating staff and with maintenance and logistics.

Chile, with its excellent climate conditions for wind power and the associated low cost of electricity, has a very high potential in international terms for producing, exporting and locally using green hydrogen. To generate green hydrogen, electrolyzers use wind power to dissociate water into its two components, oxygen and hydrogen. In a second step, plans call for filtering CO<sub>2</sub> out of the air and then combining it with the green hydrogen to form synthetic methanol. The result is renewable methanol, which can be converted into climate-friendly fuel using an MTG (Methanol To Gasoline) technology to be licensed and supported by ExxonMobil.

You can find this press release, along with a press photo, at [www.siemens-energy.com/press](http://www.siemens-energy.com/press)

More information about "Haru Oni" project at: [www.siemens-energy.com/haru-oni](http://www.siemens-energy.com/haru-oni)

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## Contact partner for press:

### **Siemens Energy AG**

Alfons Benzinger

Phone: +49 174 155 9447

Email: [alfons.benzinger@siemens-energy.com](mailto:alfons.benzinger@siemens-energy.com)

### **Porsche AG**

Peter Gräve

Phone: +49 1523 911 3486

Email: [peter.graeve@porsche.de](mailto:peter.graeve@porsche.de)

**Siemens Energy** is one of the world's leading energy technology companies. The company works with its customers and partners on energy systems for the future, thus supporting the transition to a more sustainable world. With its portfolio of products, solutions and services, Siemens Energy covers almost the entire energy value chain – from power generation and transmission to storage. The portfolio includes conventional and renewable energy technology, such as gas and steam turbines, hybrid power plants operated with hydrogen, and power generators and transformers. More than 50 percent of the portfolio has already been decarbonized. A majority stake in the listed company Siemens Gamesa Renewable Energy (SGRE) makes Siemens Energy a global market leader for renewable energies. An estimated one-sixth of the electricity generated worldwide is based on technologies from Siemens Energy. Siemens Energy employs more than 90,000 people worldwide in more than 90 countries and generated revenue of around €27.5 billion in fiscal year 2020. [www.siemens-energy.com](http://www.siemens-energy.com).

**Dr. Ing. h.c. F. Porsche AG**, with headquarters in Stuttgart-Zuffenhausen, is one of the most profitable car makers in the world. In 2019, Porsche delivered 280,800 vehicles of the 911, 718 Boxster, 718 Cayman, Cayenne, Macan, Panamera and Taycan models to customers worldwide. That was ten per cent more than the year before. Thereby, the sports car manufacturer's operating profit before special items amounted to 4.4 billion euros, up three per cent. Porsche operates plants in Stuttgart and Leipzig as well as a development centre in Weissach. The sports car manufacturer employs 35,429 people. Porsche is committed to innovation, many of the technologies have their origins in motorsport. Porsche is aware of every aspect of its corporate responsibility: economic, environmental and social.

<https://newsroom.porsche.com/en.html>

### **Siemens Energy AG**

Communications

Leitung: Robin Zimmermann

Otto-Hahn-Ring 6

81739 München

### **Porsche AG**

Öffentlichkeitsarbeit, Presse,

Nachhaltigkeit und Politik

Porscheplatz 1

70435 Stuttgart