Haru Oni – CO2-neutral fuel from South America

STORIES OF MISSION ZERO – HARU ONI

Haru Oni – CO2-neutral fuel from South America

In the autumn of 2021, Siekmann Econosto sent the first shipment of industrial valves to Magallanes, the most southerly region of Chile, in order to support the construction of the Haru Oni pilot plant for a well-known German energy company. This first integrated large-scale commercial plant for climate-neutral fuel production represents another major step towards sustainable mobility.

Pilot project Haru Oni

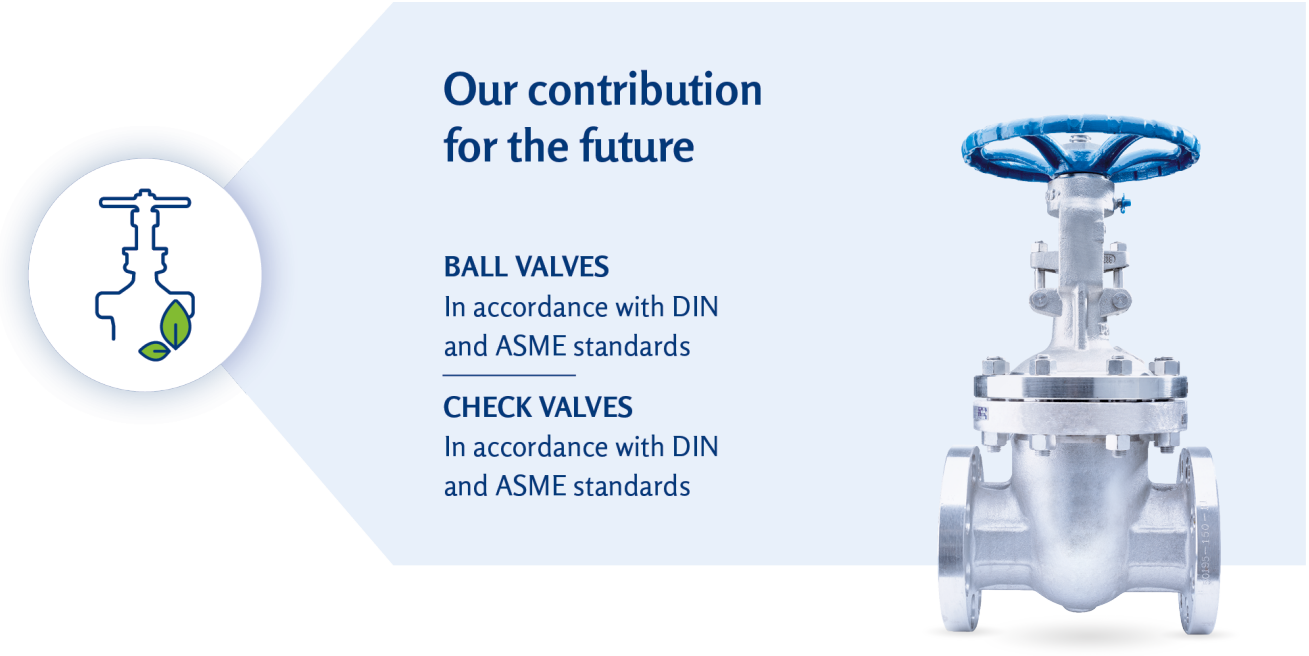
The pilot project Haru Oni focuses on the development of the commercial use of synthetic fuel, which sports car manufacturers intend to use to power their cars with e-fuel in the future. As one of the world’s leading companies in the field of advanced technology, the German energy group is constructing the e-fuel plant in the Magallanes province together with a renowned German car manufacturer and other international partners. The region in southern Chile has enormous amounts of wind and solar energy and is ideal for developing a sustainable energy industry.

The plant, which is to be further expanded by 2026, will create a green energy cycle in which wind energy generated by wind turbines will be used to produce CO2-neutral fuel. This synthetic e-fuel will then be exported so that it can also be used in Germany to power vehicles with climate-neutral fuel.

SE as an ideal partner for plant engineering

Siekmann Econosto provides the plant engineering industry with

valves in accordance with DIN and ASME standards. The ball valves, check valves and other accessories from the internationally acclaimed manufacturer are especially robust and material-resistant. Over the last few decades, the Dortmund-based company has been involved in a wide range of major projects throughout the world, in which SE valves have proven to be safe and efficient in applications such as the entire hydrogen cycle chain and in wind turbine systems. SE valves stand for certified quality and are subjected to numerous safety and quality tests in the company's in-house production and storage facilities in Zwenkau. Only then are the valves exported to their final destinations.



Up to 550 million litres of e-fuel

During the initial phase in 2022, the plant will produce around 130,000 litres of e-fuel per year with a single wind turbine. The production capacity will then be gradually increased to 300 wind turbines and around 550 million litres of e-fuel per year by 2026. In order to promote the green

energy transition as an integral part of Germany’s national hydrogen strategy, the leading German energy company has been granted more than 8 million euros for the project by the Federal Ministry for Economic Affairs and Energy.

The objective of the Power-to-X project is to develop new production opportunities and import structures for environmentally friendly energy and fuel utilisation by means of plants such as Haru Oni. By increasing production capacities, it is envisaged that the use of e-fuel will be available at prices that are affordable for the general public in the long term. These goals correspond to Siekmann Econosto’s philosophy and sustainability strategy, because by participating in projects such as Haru Oni, the valve manufacturer is supporting the implementation of resource-saving energy concepts.

Illustration: Wind farm

About Siekmann Econosto

Siekmann Econosto is an internationally renowned supplier of

high-quality industrial valves that has stood for outstanding technical performance, safety, quality, reliability and internationality for more than 65 years now. The company provides valves for international plant manufacturers and operators of industrial installations throughout the world and pursues a clear goal: we want to improve our customers' processes and make them more efficient and more sustainable. Our mission: Let's make industry work better.

We are perfectly positioned to support our customers with technological expertise, a comprehensive portfolio and many years of experience, and to benefit from the major growth drivers such as the increasing demand for energy and sustainability. The company is part of the Dutch ERIKS/SHV Group, a decentralised family business with a turnover in the double-digit billion range and 56,800 employees in 73 countries.

Stories of mission zero

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