

Presse-Information

Voith Hydro

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New Voith Hydro turbine governor series enjoys high reputation – especially in Scandinavia

- World's first HyCon GoHybrid in operation for more than one year
- Results include 92 percent less energy required in operation for SWU Energie GmbH in Germany compared to previous solutions
- Now, Swedish plant operator Fortum also relies on the innovative HyCon GoHybrid solution

HAGFORS, SWEDEN: The HyCon GoHybrid, launched to the market in May 2021, is a hydraulic unit for turbine governors in hydropower. Due to the significantly increased energy efficiency and low oil volumes, the GoHybrid enjoys high recognition, especially in Northern and Central Europe, where these features are becoming increasingly important.

First operation of the HyCon GoHybrid

The turbine governor was first installed in Germany at the site of SWU Energie GmbH (a subsidiary of Stadtwerke Ulm/Neu-Ulm GmbH) in Wiblingen. Since then, the GoHybrid has been in successful operation for more than one year. The customer is highly satisfied with the variable-speed pump drive's consumption of only 100 kWh since commissioning. This means that the HyCon GoHybrid required 92 percent less energy in operation compared to previous solutions.

Further application at Fortum

The energy company Fortum in Sweden was already interested in the product from the beginning and identified the Nain project near Hagfors on the Uvån River as a suitable application site. At the station, Francis twin turbines with a capacity of 6.8 MW are installed. These were commissioned in 1944 and proved to be suitable for the GoHybrid's smallest design size.

The turbine governor for Nain was successfully tested at Voith Hydro's headquarters in Germany in the summer of 2021 – shortly after its market launch – and was commissioned and handed over to the customer in November. The HyCon GoHybrid already convinced in the first weeks after commissioning. Fortum expresses this through consideration of the system's use in additional plants.

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"The HyCon GoHybrid is a compact unit that contains less oil, has low energy consumption and exact control. Since the GoHybrid makes no noise during regulation or pump operation and requires very little space, it has improved the working environment in the power station a lot," explains Fortum project manager Per Jansson. "Since commissioning in November 2021, we have had no problems and are very satisfied with both the turbine governor as well as with Voith's support," he continues.

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About Fortum

Fortum is a leading European energy company with Finnish roots, providing solutions in clean electricity, heat and energy efficiency. Making energy decisions ever smarter and thus contributing to a more sustainable world is what drives the company. Fortum aims to accelerate the shift to greater sustainability by making the energy system CO₂ neutral, using resources more efficiently, and offering customers in households, industry and infrastructure smart solutions to minimize their carbon footprint.

About the Voith Group

The Voith Group is a global technology company. With its broad portfolio of systems, products, services, and digital applications, Voith sets standards in the markets of energy, oil & gas, paper, raw materials, and transport and automotive. Founded in 1867, Voith today has more than 20.000 employees, sales of €4.3 billion and locations in over 60 countries worldwide, and is thus one of Europe's larger family-owned companies.

Voith Hydro Division is part of the Voith Group and a leading full-line supplier and reliable partner for hydropower plant equipment. Voith develops customized long-term solutions and services for large and small hydropower plants all over the world. Its range of products and services covers the entire life cycle and all the main components for large and small hydropower plants, from generators, turbines, pumps and automation systems to spare parts, maintenance and training services and digital solutions for intelligent hydropower.



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The HyCon GoHybrid in operation at the Nain hydropower station.

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