

Media Release

Voith Group

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Voith wins major orders for pumped storage plants

- At the beginning of the year, Voith Hydro secured two major orders for pumped storage plants in Austria and Israel.
- Orders highlight importance of pumped storage technology, as to date it is the only long-term, technically proven form of storing energy on a large scale and making it available at short notice.
- Winning these contracts underpins Voith Hydro's technological and market leadership in the pumped storage segment.

AUSTRIA/ISRAEL. Voith Hydro has successfully kicked off the new calendar year with major orders in Austria and Israel worth 80 MEUR.

Due to the global targets for reducing CO₂ emissions, electricity generation from renewable sources, especially solar and wind, is currently enjoying encouraging growth. These volatile forms of energy, combined with new market requirements like electro-mobility, not only necessitate corresponding transmission grids but also an expansion of energy storage systems. The Tyrolean company Tiroler Wasserkraft AG (TIWAG) is meeting these needs by building a large pumped storage facility. They have now engaged technology leader Voith Hydro to supply pump turbines including all the necessary sub-systems for their Kühtai 2 project.

Austrian flagship project enables transition to clean energy

The Kühtai pumped storage plant is an extension to the existing Sellrain-Silz power station complex. It will enable the production of renewable energy with flexible timescales as well as the interim storage of electricity from other energy sources. The expansion project is therefore making an important contribution to the transition to renewable energy.

As well as functioning as a "green battery", the facility will also increase the annual net energy production of the power station complex by 216 GWh. In

this context, TIWAG is building on its positive experiences of working with Voith Hydro, which also supplied the equipment for the power plant that went into operation in Kühtai 1 in 1979/80. The two new variable-speed pump turbines each with an output of 95 MW, as well as the necessary control technology and shut-off valves, are scheduled to begin operating in 2026 (see more project updates here <https://www.erneuerbareplus.at>).

Importance of pumped storage also recognized in the Middle East

Alongside the successful contract in Austria, Voith Hydro was also able to secure another order for pumped storage equipment in Israel:

With a view to expanding renewable energies and stabilizing its grid, the Israeli government had decided to expand their pumped storage capacity some years ago. Following a long and intensive project development phase, Voith Hydro was awarded the order for the Manara pumped storage plant at the beginning of February. The scope of supply includes the delivery and installation of the electrical and mechanical equipment for the complete power unit comprising pump turbine, motor-generator and control equipment including sub-systems. With an electrical output of 156 MW and an impressive head of almost 700 m, the system is distinguished in particular by its fast response times to changing grid requirements.

The Manara pumped storage power plant will be located in the north of Israel. It will have two artificial reservoirs and the machine hall will be designed as an underground cavern. Following the construction of the facility, Voith Hydro together with other partners will also be responsible for the maintenance and operation of the pumped storage plant for the first three years.

Through these orders, Voith Hydro is yet again underscoring its technological and market leadership in large-scale pumped storage facilities.

About the Voith Group

The Voith Group is a global technology company. With its broad portfolio of plants, products, services and digital applications, Voith sets standards in the markets for energy, oil & gas, paper, raw materials, and transport & automotive. Founded in 1867, Voith today has more than 20,000 employees, sales of €4.2 billion and locations in over 60 countries worldwide, and is thus one of Europe's larger family-owned companies.

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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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Future Manara pumped storage scheme with a difference in height of 700m between upper and lower basin

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