

Media Release

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Voith Secures Major Contract for Modernization of Three Hydropower Stations in Malaysia

2025-06-11

- Voith and HeiTech have been awarded a contract for the modernization of the Temengor, Bersia, and Kenering hydropower plants with a total capacity of 472 MW in Malaysia.
- The modernization aims to extend the operational lifespan of the stations and increase the annual output of select turbine-generator units.

HEIDENHEIM, GERMANY. The consortium comprising Voith and HeiTech Padu Berhad (HeiTech), a technology company located in Malaysia, has been awarded the contract to modernize three hydropower stations operated by TNB Power Generation Sdn. Bhd. (TNB Genco) a subsidiary of Tenaga Nasional Berhad (TNB) as part of the Life Extension Program (LEP).

The project includes the Temengor hydropower station, which features four Francis turbines, each with a capacity of 100 MW, the Bersia plant, equipped with three vertical Kaplan turbines, each with a capacity of 24 MW and finally, the project includes the Kenering station, which has three Francis turbines, each with a capacity of 40 MW. All these power stations are located on the Sungai Perak, in the northern part of Malaysia. Furthermore the project includes the Bersia Group Control Center for operation and control of all river cascade power station.

The multimillion-euro order covers the rehabilitation of turbine-generator units, automation systems, and electrical and mechanical balance of plant auxiliary power station systems. The primary objectives of the modernization include extending the operational lifespan of the stations and increasing the annual output of select turbine-generator units. Notably, the Temengor Hydropower Station is expected to achieve a 15% boost in output capacity.

"This modernization of our hydropower stations by Voith and HeiTech represent significant step towards ensuring a sustainable and reliable energy supply in Malaysia. We look forward to this collaboration and the positive impact this project will have on our energy infrastructure, supporting TNB's energy transition initiatives," a TNB Power Generation Sdn. Bhd. representative says.

"This order represents a significant milestone for Voith and highlights the company's ongoing commitment and exceptional performance, while also reinforcing its goal to strengthen its presence in Southeast Asia's hydropower market and advance its global development strategy," states Hubert Geissberger, Head of Proposals at Voith Hydro.

The modernization initiative marks a pivotal phase for the customer TNB Power Generation Sdn. Bhd.'s LEP, as it reflects Malaysia's commitment to maintaining and upgrading its hydropower assets while ensuring reliable and sustainable energy supplies. Post-upgrade, the three stations are poised to deliver enhanced performance and renewed operational excellence.

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, paper, raw materials and transport & automotive. Founded in 1867, the company today has around 22,000 employees, sales of €5.2 billion and locations in more than 60 countries worldwide and is thus one of the larger family-owned companies in Europe.

The Group Division Voith Hydro is part of the Voith Group and a leading full-line supplier as well as trusted partner for equipping hydropower plants. Voith develops customized, long-term solutions and services for large and small hydro plants all over the world. Its portfolio of products and services covers the entire life cycle and all major components for large and small hydro plants, from generators, turbines, pumps and automation systems, right through to spare parts, maintenance and training services, and digital solutions for intelligent hydropower.

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Outside view of the Temengor hydropower station, one of the three plants included in the modernization scope.