

Media Release

Voith Group

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Voith launches a project for intelligent hydropower in Australia

- Voith and Snowy Hydro collaborating to create a digital transformation of operational hydropower procedures
- First integrated implementations of OnCare.Acoustic and Digital Health Assessments in one single power plant

HEIDENHEIM, GERMANY. Recently, Voith and Snowy Hydro agreed to collaborate for the Murray 1 power station and create a smart hydropower plant by installing acoustic sensing equipment to monitor and protect hydropower assets. The project includes Voith's OnCare.Acoustic system, the IIoT platform OnCumulus data storage and Digital Health Assessments. Installation of the system will commence in August 2020 with the six-month project.

In 2019, Voith Hydro was appointed the electro-mechanical equipment supplier for Snowy 2.0, a 2000 MW pumped storage hydropower plant. Murray 1 hydropower plant is located in the state of New South Wales in Australia. The plant was officially opened in 1967 and contains 10 units with a capacity of 950 MW.

Digital solution package for Murray 1

Voith's OnCare.Acoustic condition monitoring system helps to detect potentially serious incidents by recording sound anomalies. Plant operators will be informed about suspicious sounds, which are pre-classified in warnings and alarms to secure the reliability, availability and safety of hydropower plants 24/7. OnCare.Acoustic is based on Voith's IIoT platform OnCumulus. Its cloud-based data storage provides capabilities for sensor data collection, cloud data aggregation, complex analytics and real-time data visualization.

With Digital Health Assessments, Voith experts analyze the power plant's operation data at the OnPerformance.Lab (OPL) in Heidenheim, Germany.

This enables condition-based decisions to optimize preventive maintenance measures and to detect malfunctions before they occur. Using the OPL Interact communication platform, customers can communicate with the OPL experts and gain further advantage with interactive reporting of the power plant.

The project will evaluate the value of Voith's digital solutions combination in one single power plant. "By classifying the events and allocating them to specific equipment, plant operators gain further insights into their hydropower plant which increases the chance of identifying possible dangerous conditions ahead of other alarms," says Dr. Thomas Mahnke, Global Product Manager OnCare.Acoustic at Voith Hydro.

About Snowy Hydro

Snowy Hydro has a long and proud heritage as an Australian company. Growing from early beginnings as an electricity generator into a leading end-to-end energy provider, Snowy Hydro is one of the major participants in the Australian energy transition.

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 & automotive. Founded in 1867, the company today has more than 19,000 employees, sales of € 4.3 billion and locations in over 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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Voith and Snowy Hydro have started a project on Intelligent Hydropower solutions for the Murray 1 hydropower plant

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Source: Snowy Hydro

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