



## PRESS RELEASE

# ANDRITZ Hydro and MAN Energy Solutions agree on hydrogen cooperation

*GRAZ/VIENNA/RAVENSBURG, JULY 29, 2021.* International technology group ANDRITZ and the German company MAN Energy Solutions have concluded a strategic framework agreement to jointly develop international projects for the production of green hydrogen from hydropower. Frank Mette, CEO of ANDRITZ Hydro in Germany, and Dr. Uwe Lauber, Chief Executive Officer and Chief Technology Officer of MAN Energy Solutions, signed the agreement in Ravensburg.

A pilot project in Europe will mark the start of the collaboration. Subsequently, the companies want to jointly identify further projects and implement them in the context of the German Federal Government's H2 Global initiative. H2 Global is a market-based funding platform, which aims to efficiently promote the market launch of green hydrogen and hydrogen-based power-to-X products. For this purpose, hydrogen energy partnerships are to be established with countries with a correspondingly high potential to provide a long-term, cost-effective, and reliable green hydrogen supply to Germany and the EU.

Frank Mette: *"Hydropower is one of the few completely climate-neutral forms of energy, which is capable of providing base load power. We therefore see excellent potential for worldwide expansion – in new construction projects just as much as in repowering. By adding the possibility of producing hydrogen to hydropower plants, we are taking the next step and also making the energy generated there ready for export and storage without restriction. Together with MAN Energy Solutions, we can open up new markets and opportunities for the operators."*

Uwe Lauber: *"The economy of the future will be climate-neutral, and to achieve this it needs huge quantities of green hydrogen. Together with ANDRITZ Hydro, we want to make this resource available. Hydropower plants are ideal for generating hydrogen in a completely climate-neutral, reliable and cost-effective manner. With ANDRITZ Hydro, we have been able to enter into a partnership with a world leader in the field of hydraulic power generation, to develop these prospects together with us."*

The companies are aiming to launch an initial joint pilot project before the end of this year, to provide about 650 tons of green hydrogen by using an electrolysis output of up to 4 MW, initially for local use. In follow-up projects, designed for the export of hydrogen, the installed electrolysis output is expected to increase to up to 100 MW in the coming years.

Frank Mette: *"MAN Energy Solutions contributes scalable and, above all, flexible electrolysis technology to this partnership, along with many years of experience in power-to-X technology and plant engineering. Together, we will tap growth markets for hydrogen in Europe and worldwide, including for the production of green hydrogen, which can then be imported by German consumers."*

– End –





Contract signing



Workshop Tour

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## **ANDRITZ GROUP**

International technology group ANDRITZ offers a broad portfolio of innovative plants, equipment, systems and services for the pulp and paper industry, the hydropower sector, the metals processing and forming industry, pumps, solid/liquid separation in the municipal and industrial sectors, as well as animal feed and biomass pelleting. The global product and service portfolio is rounded off with plants for power generation, recycling, the production of nonwovens and panelboard, as well as automation and digital solutions offered under the brand name of Metris. The publicly listed group today has around 26,950 employees and more than 280 locations in over 40 countries.

## **ANDRITZ HYDRO**

ANDRITZ Hydro is one of the globally leading suppliers of electromechanical equipment and services for hydropower plants. With over 180 years of experience and an installed fleet of more than 470 GW output, the business area provides complete solutions for hydropower plants of all sizes as well as services for plant diagnosis, refurbishment, modernization and upgrade of existing hydropower assets. Pumps for irrigation, water supply and flood control are also part of this business area's portfolio.

## **ANDRITZ HYDRO GERMANY**

ANDRITZ has been present on the German hydro market since 1856. The German Hydro branch, with more than 400 employees, is headquartered in Ravensburg with a further branch in Berlin. ANDRITZ Hydro Germany provides services in the field of research and development, design, project management, procurement, production, delivery, installation and commissioning of equipment for hydropower plants, including intake and draft tube gates, turbines, propellers, turbine governor, excitations and various auxiliary systems.

## **MAN ENERGY SOLUTION**

MAN Energy Solutions enables its customers to achieve sustainable value creation in the transition towards a carbon neutral future. Addressing tomorrow's challenges within the marine, energy and industrial sectors, we improve efficiency and performance at a systemic level. Leading the way in advanced engineering for more than 250 years, we provide a unique portfolio of technologies. Headquartered in Germany, MAN Energy Solutions employs some 14,000 people at over 120 sites globally. Our after-sales brand, MAN PrimeServ, offers a vast network of service centres to our customers all over the world.

Through H-TEC SYSTEMS, the electrolysis specialist owned by MAN Energy Solutions, the company offers PEM electrolysis technology. In locations such as Bavaria and Schleswig-Holstein, stacks and megawatt electrolyzers based on the polymer-electrolyte membrane process (PEM) are developed by around 85 specialists of H-TEC SYSTEMS to cover the hydrogen demand for industry as well as for energy refiners.