



PRESS RELEASE

Klabin successfully starts up new gasification plant supplied by ANDRITZ



- The ANDRITZ gasification plant enables entirely fossil-free operation of the lime kiln by replacing 100% of the heavy fuel oil with a biomass-derived gas.
- Biomass gasification is part of ANDRITZ's CircleToZero product portfolio, which focuses on optimizing side streams, creating new added-value products, and laying the foundation for zero emissions and zero waste production.

GRAZ, NOVEMBER 10, 2022. Klabin has successfully started up a biomass gasification plant at the Puma Unit, located in Ortigueira/PR, Brazil, with a new biomass treatment line supplied by ANDRITZ.

The gasification plant enables 100% fossil-free operation of the lime kiln by replacing all heavy fuel oil currently burned in one of the mill's lime kilns, significantly reducing the Klabin pulp mill's carbon footprint.

The main ANDRITZ scope of supply included:

- 51 MW gasification plant
- Belt dryer
- Multi-fuel lime kiln burner
- Biomass handling equipment
- Electrical building

ANDRITZ was chosen as the gasification supplier because of successful previous references and was also the main supplier of Klabin's Puma I and II projects, which were started up successfully in 2016 and 2021, respectively.

ANDRITZ gasification plants are part of the company's CircleToZero initiative, which includes new technologies aimed at optimizing pulp mill side streams. This global initiative for our pulp and paper customers brings together the continuous development and improvement of existing ANDRITZ technology solutions with an ambitious innovation goal for the future: To eliminate unused side streams, create new added-value products, and lay the foundation for zero emissions and zero waste production.

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ANDRITZ gasifiers enable entirely fossil-free operation of lime kilns

PRESS RELEASE AND PHOTO AVAILABLE FOR DOWNLOAD

Press release and photo are available for download at andritz.com/news. The photo may be published free of charge if the source is stated: "Photo: Klabin".

FOR FURTHER INFORMATION, PLEASE CONTACT

Dr. Michael Buchbauer
Head of Corporate Communications
michael.buchbauer@andritz.com
andritz.com

ANDRITZ GROUP

International technology group ANDRITZ offers a broad portfolio of innovative plants, equipment, systems, services and digital solutions for a wide range of industries and end markets. ANDRITZ is a global market leader in all four of its business areas – Pulp & Paper, Metals, Hydro, and Separation. Technological leadership, global presence and sustainability are the cornerstones of the group's strategy, which is focused on long-term profitable growth. The publicly listed group has around 27,900 employees and over 280 locations in more than 40 countries.

ANDRITZ PULP & PAPER

ANDRITZ Pulp & Paper provides sustainable technology, automation, and service solutions for the production of all types of pulp, paper, board and tissue. The technologies and services focus on maximum utilization of raw materials, increased production efficiency, lower overall operating costs as well as innovative decarbonization strategies and autonomous plant operation. Boilers for power generation, flue gas cleaning systems, various nonwoven technologies, panelboard (MDF) production systems, as well as recycling and shredding solutions for numerous waste materials also form a part of this business area. State-of-the-art IIoT technologies as part of Metris digitalization solutions complete the comprehensive product offering.