



The world's largest recovery boiler in operation started up in 2021 at Bracell's pulp mill in Sao Paulo State, Brazil.



UPM Paso de los Toros, the biggest pulp mill in Uruguay, is equipped with ANDRITZ magnum-sized recovery boiler to maximize steam production for power generation.



*"We have successfully installed various digital technologies and robotics, including Smart Smelt Spout Robots which improve the safety of the furnace area of the recovery boiler and our vision systems that convert process images into digital data for improved operational performance, and less manual intervention."*

**Ageu Silva**  
LATAM Divisional Director, Pulp & Power, ANDRITZ

## ENABLING THE CREATION OF GIANT PULP MILLS

ANDRITZ is the global leader in the supply of recovery boilers to the pulp and paper industry. Furthermore, its decades of experience in designing, building and operating large boilers, from 8,000 tds/d upwards has allowed pulp mill operators to construct the true giants of the industry that we see today in Latin America and Asia.

The main benefit ANDRITZ brings with its larger recovery boilers is the ability to super-size pulp mills in terms of capacity – a growing trend particularly in Latin American countries including Brazil and Uruguay, and in Asian countries including Indonesia and China. ANDRITZ is the only supplier on the market having proven recovery boiler references of over 8,000 tds/d, the largest being in operation for a number of years at Bracell's mill in Sao Paulo State, Brazil.

Ageu Silva, LATAM Divisional Director, Pulp & Power, ANDRITZ, says, "Up until relatively recently the size of the recovery boiler limited the

capacity of the fiberline at pulp mills. The reason for this limitation was due to availability, as when recovery boilers go down, all production at the pulp mills stops.

"Due to our decades of experience in design and installation, we now supply recovery boilers that have the world's highest availabilities. This means that much larger boilers have become more viable, and mills can now run multiple fiberlines utilizing just one large recovery boiler. This ability results in major savings on CAPEX and OPEX as one large recover boiler is a lot less expensive than installing and operating two smaller ones.

Timo Lindh, LATAM Senior Commercial and Technical Manager, Recovery Boilers, ANDRITZ, says, "The good news is that we can go even bigger, up to 20,000 tds/d. However, designing of a magnum boiler does not mean simply building a larger boiler. We have hands-on experience from several magnum-boiler projects over the last ten years, and this has enabled us to continuously improve our design and delivery concept. Through this process, we are extremely confident that we will deliver our customers magnum-sized recovery boilers that are safe, efficient and reliable well into the future."

### MAXIMIZING RAMP UP SPEED AND QUALITY OF ONGOING SERVICE

With the experience of having seven of the largest recovery boilers in operation or under construction around the world, ANDRITZ prides itself in fast start-up and ramp up speeds, "The speedy ramp up to full design capacity is a very important issue for our customers," says Silva. "Our experience in the installation, start-up and ramp up of recovery boilers and complete mills is second to none, and our installations are ramping up faster and faster, often reaching nominal capacity in record times.

When it comes to service, ANDRITZ has located its service centers with skilled engineers and spare parts close to customers' mills to ensure maximum lifetime service levels. The latest developments include an upcoming modern service center located at Três Lagoas in Mato Grosso do Sul state, Brazil, in addition to the outstanding existing service center at Araucaria in Paraná state. Another development is a brand-new service center at Palembang on the island of Sumatra in Indonesia, which will be fully operational at the end of the year. The center will allow ANDRITZ to service the larger mills on the island as well as provide services to other mills in South-East Asia.

Silva concludes, "Our customers are delighted with our exponentially growing service offerings, particularly at the heart of large, new pulp mill expansion areas. We now have the ability to manufacture spare parts for large recovery boilers, as well as for parts across the rest of the mill, ensuring maximum uptime and quality maintenance and service."

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