

PRESS RELEASE

Contacts:

Sara Secomandi, +39 0331 444 111, communications@tenova.com

Tenova Received the Order for a DRI Plant from Salzgitter Flachstahl in Germany

Castellanza, December 17, 2020 – Salzgitter Flachstahl GmbH, the largest steel subsidiary in the Salzgitter Group, has commissioned **Tenova**, a leading company specialized in innovative solutions for the metals and mining industries, for the construction of **µDRAL**, a **demonstration plant** for the production of **Direct Reduced Iron (DRI)**, using up to 100% hydrogen as reducing agent. The plant is based on the ENERGI[®] technology and will be installed on the premises of the Salzgitter steel mill at Salzgitter, Germany.

The **µDRAL** will have a nominal production capacity of 100 kg/h and will be operated with hydrogen and natural gas showing the **flexibility of the technology in terms of fluctuating availabilities of reducing agents**, including 100% hydrogen. The DRI produced by **µDRAL** will be both used in the blast furnace process to save injected coal and in the electric arc furnace of the Peine plant.

“The new direct reduction plant is the next step toward realizing [the SALCOS[®] approach](#) and we are proud to be the partner of Salzgitter’s transformation process to green steelmaking”, affirmed **Markus Dorndorf**, Business Development Director Iron & Steelmaking at Tenova LOI Thermprocess.

The **ENERGI[®]** process, jointly developed by Tenova and Danieli, represents the base for the plant design and is the most feasible high-intensity H₂ DR system available, already designed for extremely low CO₂ emissions while processing iron ore pellets. This enables Salzgitter to achieve the long-term CO₂ reduction targets, defined with SALCOS[®] approach.

The ENERGI[®] solution has been also [recently selected by HBIS Group](#) for the first ever gas-based DR plant in **China** and by OMK in **Russia** for the production of the highest quality of steel grades. The world’s steel industry is looking for smart innovative technologies to reduce its carbon footprint, and ENERGI[®] is **the most reliable and proven technology to lead this sustainable and green path towards the use of hydrogen** as a replacement for coal in the integrated steelmaking process.

About Tenova

Tenova, a Techint Group company, is a worldwide partner for innovative, reliable and sustainable solutions in metals and mining. Tenova, including its TAKRAF affiliates, leverages a workforce of over 2,500 forward-thinking professionals located in 19 countries across 5 continents, who design technologies and develop services that help companies reduce costs, save energy, limit environmental impact and improve working conditions.

For more information, visit www.tenova.com