

PRESS RELEASE

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First Hydrogen based ENERGIRON DRI Plant for Tenova in China

Castellanza, November 23, 2020 – Tenova, a leading company specialized in innovative solutions for the metals and mining industries, has signed a contract with the **HBIS Group** for the implementation of the Paradigm Project, a High Tech Hydrogen Energy Development and Utilization Plant. The project includes a **600,000 ktpy ENERGIRON DRI plant**.

This will be the **world's first DRI production plant powered by hydrogen enriched gas**, which will make use of the most advanced, competitive, eco-friendly and reliable technology of the Tenova process portfolio, which includes advanced digital models for equipment and metallurgical behavior prediction.

"This is also an important breakthrough for the Chinese steel industry as it will be the first gas-based DRI plant in China", stated **Stefano Maggiolino**, Tenova HYL President & CEO.

The HBIS DRI plant will use **make-up gas with approximately a 70% Hydrogen concentration**. Due to the high amount of H₂, the HBIS plant will be **the greenest DRI plant in the world** by producing only 250kg of CO₂ per ton of DRI. The carbon dioxide will be selectively recovered and part of it will be reutilized in downstream processes, with a **final net emission of just about 125kg of CO₂ per ton**. The plant is scheduled to begin production by the end of 2021.

The world's steel industry is looking for smart innovative technologies to reduce its carbon footprint. As a result, Hydrogen is now being used as a replacement for coal in the integrated steelmaking process. The ENERGIRON technology, jointly developed by Tenova and Danieli, is the most feasible high-intensity H₂ DR system available and is already designed for extremely low CO₂ emissions while processing virgin metallic units.

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