

PRESS RELEASE

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Tenova to provide the first hydrogen Experimental DRI Plant in Japan

Nippon Steel Corporation will use ENERGI[®] technology to conduct experimental operation of reduced iron with hydrogen.

Castellanza, March 18, 2024 – Tenova, a leading developer and provider of sustainable solutions for the green transition of the metals industry, was recently awarded a contract for an **Experimental Direct Reduction plant (EDRP)** operated by **Nippon Steel Corporation**, and entrusted by the **New Energy and Industrial Technology Development Organization (NEDO)**. Nippon Steel Corporation is Japan's largest steelmaker and one of the world's most prominent steel producers. The plant will be installed in the Hasaki R&D Center of Nippon Steel Corporation.

This facility will be used for the demonstration test of "Development of Direct Hydrogen Reduction Technology for Reducing Low-Grade Iron Ore with Hydrogen Alone / Development of Technology for Direct Hydrogen Reduction", which was adopted by NEDO's Green Innovation Fund in December 2021. This project is being undertaken by a consortium formed by Nippon Steel Corporation, JFE Steel Corporation, and the Japan Research and Development Center for Metals.

The DR plant, based on the **ENERGI[®]** Direct Reduction (DR) technology, jointly developed by Tenova and Danieli, will use hydrogen as reducing gas, although, it will retain the flexibility to use different gases in any combination or proportion. To this end, the plant will be equipped with Tenova's signature CO₂ capture equipment that allows to curb overall CO₂ emissions when the plant operates with mixes of gases containing carbon.

"With this contract, it has been confirmed once again that ENERGI[®] is the best available cutting-edge technology for DRI plants," said **Stefano Maggiolino**, Tenova HYL President & CEO. *"We are delighted to contribute to this project and supply the very first Experimental Direct Reduction Plant fed by hydrogen in Japan".*

About Tenova

Tenova, a Techint Group company, is a worldwide partner for sustainable, innovative and reliable solutions in the metals and – also through the well-known TAKRAF and DELKOR brands – in the mining industries. Tenova leverages a workforce of over 2,300 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.

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