



PRESS RELEASE

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Hydrogen to Decarbonize Steel: First Trial Launched in Italy

Ternova, Snam and TenarisDalmine will collaborate to test hydrogen in the steel industry to decarbonize hard-to-abate sectors.

Dalmine, July 3, 2024 - Today marks the launch of **the first trial conducted in Italy using hydrogen at a steel plant** to process steel products.

The collaboration between **Snam**, one of Europe's main energy infrastructure operators, **TenarisDalmine**, a Tenaris company and a global leader in pipe manufacturing and related services for the energy industry, and **Ternova**, a leading developer and supplier of sustainable solutions for the green transition of the metallurgical industry, will last six months with the aim of **evaluating the performance and reliability of using hydrogen in the steel industry** and, more broadly, the hard-to-abate sectors that are the most challenging to decarbonize.

The goal is to use hydrogen produced on-site to fuel a burner recently developed by Ternova (100% H₂ ready) installed in a **reheating furnace** to hot roll seamless pipes at the TenarisDalmine plant in Dalmine (Bergamo), Italy. The test will also help to define and implement safety guidelines and plant management procedures, thus developing integrated solutions that can significantly lower CO₂ emissions produced by the manufacturing processes of hard-to-abate industries. TenarisDalmine will provide the site and reheating furnace, contributing its know-how to the installation, operation, and performance monitoring of the **steel plants**. Using its expertise in hydrogen-related technologies and molecule transport, Snam will provide an **alkaline electrolysis system** to TenarisDalmine, which will operate it to produce the hydrogen needed for the test. Ternova, in turn, will complete the value chain of the process by pooling its know-how on **combustion systems** and, in particular, supplying burners specifically designed to be fuelled with hydrogen. The project also includes a significant contribution from Techint Engineering & Construction, a company that provides design and project management services and is continuously expanding in the energy transition field, with the development of general and detailed installation engineering, the development of risk analysis and verification of compliance with legal requirements and safety standards.

With this first collaboration at the TenarisDalmine plant, **Snam is supporting a major industry player in the Hydrogen as a Service modality**, an *ad hoc* service that enables the use of decarbonized hydrogen in industrial production plants or other application environments, with Snam leasing the electrolysis system to the end user, who operates it. The program is part of Snam's broader efforts as a system operator to guide industrial companies on their path to decarbonizing processes that need to be tested in view of future large-scale infrastructure solutions.

The companies of the Techint Group (TenarisDalmine, Ternova, and Techint Engineering & Construction) **consolidate their know-how** by developing, implementing, and validating the technologies required to **decarbonize hard-to-abate industries** by gradually replacing fossil fuels with green hydrogen.

About Tenova

Tenova 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 2,400 forward-thinking professionals located in 18 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.

About Tenaris

Tenaris is the leading manufacturer of pipes and related services for the world's energy industry and other industrial applications. Tenaris also supplies pipes and tubular components for low-carbon energy applications such as geothermal wells, waste-to-energy (bioenergy) plants, hydrogen storage and refuelling stations, and solar and wind farms. Listed on the Milan, New York, and Mexico City stock exchanges, Tenaris has an integrated network of production units, research laboratories, finishing centers, and services, with industrial operations in the Americas, Europe, the Middle East, Asia, and Africa.

TenarisDalmine — Tenaris's operational headquarters in Italy — has six production plants, a steel mill, and a 120-MW self-generating power plant that is ISO EN 14001, ISO45001, and ISO50001 certified, as all its production sites are.

For more information, visit www.tenaris.com

About Snam

Snam is Europe's leading natural gas transportation operator, with a network of around 38,000 km in Italy and abroad. The company is committed to developing a system that enables energy security, decarbonization and transition, positioning itself as a multi-molecule operator in Italy and Europe, leveraging innovation and sustainability.

For more information, visit www.snam.it