

## PRESS RELEASE

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Contacts:

Sara Secomandi, +39 0331 444 111, [communications@tenova.com](mailto:communications@tenova.com)

### Tenova together with De Nora and Snam for green hydrogen in sustainable steel production

**The company is the first to use an innovative electrolyzer at its headquarters, as part of a Horizon Europe project.**

**Castellanza, February 29, 2024 - Tenova**, a leading developer and provider of sustainable solutions for the green transition of the metals industry, is one of the partners of the **HyTecHeat project**, along with **De Nora**, **Snam**, and other European steel producers and RTOs.

The HyTecHeat (**Hybrid Technologies for sustainable steel reheating**) project is an initiative of the **Horizon Europe program**, funded by the **European Union (EU)** with a budget of about €3.3 million. Its aim is to validate hybrid heating technologies based on natural gas with a progressive increase of hydrogen up to 100% in downstream processing. Three Demo cases testing innovative multifuel burners will facilitate the hydrogen transition of the steel sector paving the way for the abatement of Scope 1 CO<sub>2</sub> emissions. Achieved results will bring a CO<sub>2</sub> saving in the range of 7.5-25Mt/year at the EU level.

One of the Demo cases Tenova is participating in is focused on the **system integration** between hydrogen-ready burner, electrolyzer, and storage systems. Within this scope, the company will install an **electrolyzer at its headquarters** in Castellanza (Italy) and test its industrial burner to evaluate the advantages and possible risks to be mitigated, operating in an **industrial-scale plant** and using up to **100% hydrogen**. **Snam** will provide the **hydrogen storage system** and **De Nora** the **Dragonfly<sup>®</sup> system**, a latest generation electrolyzer used for the first time in a project of European importance.

The comprehensive testing will encompass not only the burners but the **entire production chain**, spanning from green energy production to a photovoltaic system, hydrogen generation, and storage, setting the standard for the optimal integration of industrial furnaces with on-site electrolyzer, including process control and safety issues.

**Roberto Pancaldi**, Tenova CEO, commented: *"It's essential for Tenova to collaborate with its partners on a shared goal of decarbonization. This project encompasses our efforts to develop an industrial-scale system that integrates hydrogen production from renewable sources, its storage, and usage in thermal combustion processes. This collaboration will bring advantages to all our customers who will join us in this journey while contributing to a cleaner and more efficient steel industry."*

*"We are proud to announce our participation as a partner in this project," commented Paolo Dellachà, De Nora CEO, "which will represent the first use case of the new Dragonfly<sup>®</sup> electrolyzer, a versatile, high-quality product that will make our role as facilitators of the energy transition even easier. The market launch of this solution is a tangible result of our significant investments in R&D, which is key to maintaining our position as a company at the forefront of the sectors we oversee".*

## **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.*

*For more information, visit [www.tenova.com](http://www.tenova.com).*