



## PRESS RELEASE

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## EU-funded LIFE H2Reuse project to decarbonize bright annealing process through hydrogen recovery and reuse

*Led by a consortium including Tenova and DMV, the project aims to reduce emissions in steel production by recovering and reusing hydrogen in the bright annealing process.*

**Costa Volpino/Castellanza, December 2, 2024** - In July 2024, the **European Union-funded LIFE H2Reuse project** launched with the goal of significantly enhancing energy efficiency and reducing the environmental impact of the bright annealing process in seamless stainless steel and nickel alloy tube production. This groundbreaking initiative seeks to develop innovative solutions for hydrogen recovery and reuse. It is coordinated by **DMV (Cogne Group, formerly Mannesman Stainless Tubes)**, a key player in precision tube manufacturing, and its partners include **Tenova**, a leading developer and provider of sustainable solutions for the green transition of the metals industry, with the two branches in Italy and Germany.

In the bright annealing process, 100% hydrogen is used in high-temperature furnaces to produce high-performance tubes with superior surface quality, corrosion resistance, and durability. Currently, hydrogen is flared after each production cycle, leading to significant waste. The LIFE H2Reuse project aims to address this issue by developing two innovative technical solutions: **recovering the wasted hydrogen** from the annealing process and **reusing it as fuel** in radiant tubes working 100% of hydrogen. This approach represents **a market-first innovation**, as the recovery of atmospheric gas for reuse in industrial processes is not yet commercially available.

While hydrogen burners are already on the market, they remain in a developmental phase. The LIFE H2Reuse project will focus on enhancing their efficiency and effectiveness in real-world industrial environments. The project's expected outcomes include significant **reductions in carbon footprint, energy consumption, and resource waste**, all of which will be rigorously tested to demonstrate their technical, environmental, and socio-economic benefits.

With the support of its key partners, the project's innovations are expected to have far-reaching impacts, particularly in industries using high-hydrogen-content atmospheric gas. Among the beneficiaries are Tenova's roller hearth furnace plants, which could apply the project's results to reduce their carbon footprint, optimize resource use, and lower operating costs.



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### **About DMV**

*DMV, belonging to the Italian Cogne Group, is a global manufacturer of seamless stainless steel and nickel-based alloy tubes. With over a century of experience, the company serves a wide range of industries, including energy, chemical, petrochemical, and automotive sectors. DMV specializes in high-performance tubular solutions designed to withstand extreme temperatures, pressure, and corrosive environments.*

*The product portfolio includes precision tubes, heat exchanger tubes, and instrument tubing, all engineered to meet the most stringent industry standards.*

*Headquartered in Germany, DMV operates globally, with production facilities and sales offices across Europe, the Americas, and Asia, delivering high-quality, customized solutions to clients worldwide.*

*For more information, visit <https://www.dmv-tubes.com>*

### **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 2,400 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](http://www.tenova.com)*



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