

PRESS RELEASE

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Tenova's advanced solutions featured on INCITE platform for clean EU technologies

Five of company's innovative techniques included, underscoring Tenova's role as key enabler of a sustainable and circular EU economy.

Castellanza, April 8, 2026 – Tenova, a leading developer and provider of sustainable solutions for the green transition of the metals industry, has five of its innovative techniques mentioned in the **European Innovation Centre for Industrial Transformation Emissions (INCITE)** web platform. Launched in 2024, INCITE identifies and evaluates emerging cutting-edge technologies and processes committed to decarbonization, depollution, and the increase of resource efficiency and circularity.

Among the technologies featured on the platform are Tenova's solutions for steel production, including **Electric Arc Furnace (EAF)** with Consteel® and Consteerr® technologies, the **Open Slag Bath Furnace (OSBF)** for melting DRI, the **iRecovery®** and **Heat Leap** systems for heat recovery from EAF plants, **Tenova KT** for polymer injection in EAF, and **ENERGIRON** for **Direct Reduced Iron (DRI)** production, jointly developed with Danieli.

The INCITE platform provides a comprehensive overview of the environmental benefits and performance, technology maturity, possible trade-offs, location and costs benefit elements of these technologies. Of the five Tenova solutions, **three are already fully operational**:

Consteel®, a well-established EAF technology with over 80 installations worldwide, is an efficient steelmaking process in which raw materials are continuously heated and charged into an EAF, where they are melted by immersion in the liquid steel present in the furnace, while simultaneously controlling gaseous emissions. Thanks to a joint technological effort and close collaboration, Tenova and ABB have co-developed and successfully implemented Consteerr®, enabling faster, safer, and more cost-effective liquid steel production.

iRecovery® is one of the leading technologies for recovering and reusing the thermal energy of off-gases directly within the EAF melting process - energy that is typically lost through steam generation. The saturated steam acts as an energy carrier for internal use, electricity generation, and district heating. The integration of the Heat Leap system, a high-performance heat pump, further enhances energy recovery by using low-temperature heat from the EAF cooling water to supply district heating networks.

ENERGIRON, jointly developed by Tenova and Danieli, is a direct reduction process (DRP) that enables the production of reduced Iron (DRI or HBI) using a vertical shaft furnace. This technology is among the leading solutions implemented worldwide for low-environmental-impact DRI production, thanks to the use of natural gas and hydrogen. DRP are typically followed by Electric Arc Furnaces (EAF) to produce liquid steel (DRI/EAF process).

The other two Tenova solutions are also included:

Open Slag Bath Furnace (OSBF), currently under development and commercialized as iBlue®, is an AC electric furnace designed for melting DRI and producing pig iron. The intent of combining a direct reduction plant with a reducing furnace technology like the OSBF is primarily driven by the need to reduce carbon emissions associated with conventional pig iron production by the blast furnace route.

Tenova KT Twin SRA and **Tenova KT Multi** enable the injection of recycled polymers as a substitute for coal through two specific systems that can be installed on the EAF wall. The former combines a supersonic oxygen injector with a polymer injector, while the latter allows the injection of both recycled polymers and lime using the same device. In the RFCS OnlyPlastic project, funded by the European Commission, both injectors demonstrated good performance in terms of slag foaming, without carryover of solid material into the off-gas extraction system.

“We are very proud that Tenova’s innovative technology appear on the INCITE platform – confirming our role as pioneering developers of advanced and sustainable steelmaking techniques,” commented **Enrico Malfa**, R&D Director at Tenova.

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 2,500 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