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Tenova to provide ArcelorMittal with a 2.5 Mtpy DRI plant

In the frame of its decarbonization plan through an innovative DRI program, ArcelorMittal chooses Tenova for the supply of the DRI technology for its Dofasco plant in Canada.

Castellanza, October 14, 2022 – Tenova, a leading developer and provider of sustainable solutions for the green transition of the metals industry, was recently chosen by **ArcelorMittal Dofasco**, one of the flagship locations of ArcelorMittal, for the design and supply of a hydrogen-ready 2,500,000 tonnes/year **ENERGIRON®** direct reduction (DR) plant, to be located in **Hamilton, Canada**.

The **ENERGIRON®** technology, jointly developed by Tenova and Danieli, is the most flexible DR technology for virgin metallic unit production in terms of makeup gases utilization and is already designed to maximize the reduction of CO₂ emissions.

The ArcelorMittal Dofasco plant will transition away from the blast furnace-basic oxygen furnace steelmaking production route to the Direct Reduced Iron (DRI) – Electric Arc Furnace (EAF) production route, which carries a significantly lower carbon footprint. The investment will reduce annual CO₂ emissions at Hamilton operations by approximately 3 million tonnes, which represents approximately 60% of emissions.

The new **ENERGIRON®** plant will be able to use Natural Gas (NG) as reducing agent with the possibility to mix it with hydrogen up to 100%. The plant will have the flexibility to use different reducing gases in any combination or proportion, using the same **ENERGIRON®** ZR scheme.

The technology has the capability to capture and use CO₂, which will further reduce the overall plant CO₂ emissions and provide an additional revenue stream for the plant operations. The plant will produce hot DRI pellets that will be processed via the proven **HYTEMP**, a pneumatic transport system, to a new EAF mill to be located next to the **ENERGIRON®** plant.

“This project provides us with a tremendous opportunity to transition ArcelorMittal Dofasco into one of the world’s cleanest, lowest carbon and modern steel manufacturers. While it involves installing new technology and equipment, the investment is really about people and planet. It will help our customers lower their carbon footprint, ensuring they deliver low carbon products to consumers. It will create and protect green careers in advanced manufacturing here at Dofasco. It will improve the work environment for our operations, maintenance, and technology teams. And it will significantly reduce the environmental impact of steelmaking in Hamilton.” stated **Ron Bedard**, ArcelorMittal Dofasco President and CEO.

“Our mission is to provide our customers with reliable and safe solutions that guarantee flexibility during the current energy transition phase and overall sustainability. This innovative direct reduction plant will help ArcelorMittal to reach its target of reducing carbon emission and Tenova is very proud to be part of this journey.” said **Stefano Maggiolino**, President and CEO at Tenova HYL.

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 2,200 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