
LATROBE MAGNESIUM AWARDS SPRAY ROASTER CONTRACT TO TENOVA S.p.A.

Highlights:

- * Latrobe Magnesium is building a demonstration plant in the Latrobe Valley Victoria to initially produce 1,000tpa of magnesium metal.
- * Tenova S.p.A. has been awarded a contract to supply spray roaster technology as part of Latrobe Magnesium's world first Magnesium extraction process.

13 September 2022, Sydney Australia: Latrobe Magnesium Limited (ASX: LMG) is pleased to announce the awarding of the full contract to **Tenova** to provide and install spray roaster technology at LMG's demonstration plant in the Latrobe Valley, using the world-first patented hydrometallurgical extraction and thermal reduction process. On 30 June 2022, LMG awarded the early engineering works to Tenova. Tenova, a Techint Group company, is a leading developer and provider of sustainable solutions for the green transition of the metals industry.

Spray roasting is a commonly utilised technology in the steel industry that was adapted for use in LMG flowsheet for extracting and producing magnesium metal. The technology also provides for regeneration of an important reagent, enhancing the cost effectiveness of LMG's process. Tenova is an established provider of this technology and LMG is pleased to have Tenova as a partner in supplying this technology for use in its demonstration plant.

Gregor Kappacher, Branch Manager at Tenova Austria, the competence center for spray roaster technology, stated *"Through many years of experience and continuous improvement of pyro hydrolysis process, Tenova is able to meet specific customer requirements. The positive and constructive cooperation with Latrobe during the development phase of the magnesium production facility was a decisive factor to now deepen this work in the course of realization. The project is of paramount importance for Tenova, because it opens positive future perspectives and is in line with our effort towards achieving a sustainable industry"*.

The spray roaster represents some 28% of the LMG's plant costs and is the longest lead time item.

The plant will harvest magnesium metal from Yallourn fly ash resource – a waste stream from its brown coal power generation. The project is at the forefront of environmental sustainability as it converts 100% of the resource into valuable commodities. The released CO₂ emissions are approximately 50% less than comparable magnesium production plants and LMG is looking to reduce this even further by the adaption of renewable energy in the future.

The demonstration plant will initially have capacity of 1,000 tonnes of magnesium metal per year, and in the second stage, LMG intends to expand its operations into a commercial scale operation with an envisaged production capacity in the range of 10,000 to 20,000 tonnes per annum of magnesium metal.


David Paterson
Chief Executive Officer

13 September 2022

Latrobe
Magnesium

About Latrobe Magnesium

Latrobe Magnesium is developing a magnesium production plant in Victoria's Latrobe Valley using its world first patented extraction process. LMG intends to extract and sell magnesium metal and cementitious material from industrial fly ash, which is currently a waste resource from Yallourn brown coal power generation.

LMG has completed a feasibility study validating its combined hydrometallurgical / thermal reduction process that extracts the metal. Construction has commenced on its initial 1,000 tonne per annum magnesium plant with commissioning targeted to commence end of Q2 2023. A commercial plant will then be developed, with a capacity of +10,000 tonne per annum magnesium, shortly thereafter. Further plant capacity expansion will be considered once the 10,000 tonne per annum is operating successfully. The plant will be in the heart of Victoria's coal power generation precinct, providing immediate access to feedstock, infrastructure, and labour.

LMG plans to sell the refined magnesium under long-term contracts to USA and Japanese customers. Currently, Australia imports 100% of the 8,000 tonnes annually consumed.

Magnesium has the best strength-to-weight ratio of all common structural metals and is increasingly used in the manufacture of car parts, laptop computers, mobile phones, and power tools.

The LMG project is at the forefront of environmental benefit – by recycling power plant waste, avoiding landfill and is a low CO₂ emitter. LMG adopts the principles of an industrial ecology system.

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