Neometals Report the Successful Demonstration of Their Vanadium Recovery Mini Pilot Plant

Neometals Ltd (ASX: NMT)

This innovative project development company announced the successful completion of its mini-pilot test work campaign on the Company's Vanadium Recovery Project.

Results confirmed excellent vanadium chemical product purity (>99.5% V_2O_5), strong recoveries (>75%) and reduced residence time for Neometals' patent pending hydrometallurgical process for recovering vanadium from Slag.

Neometals reports the successful trial of their mini vanadium recovery pilot plant

Neometals	ASX : NMT
Stage	Development
Metals	Titanium, Nickel, Lithium, Vanadium
Market cap	A$128 m @ 23c

Neometals Ltd (ASX: NMT) ("Neometals" or "the Company"), the innovative project development company,is pleased to announce the successful completion of its mini-pilot test work campaign ("Mini-Pilot") on the Company's Vanadium Recovery Project
("VRP").

Results confirmed excellent vanadium chemical product purity (>99.5% V2O5), strong recoveries (>75%) and reduced residence time for Neometals' patent pending hydrometallurgical process for recovering vanadium from Slag.

HIGHLIGHTS

• Successful demonstration of Neometals' proprietary vanadium recovery flowsheet in continuous mini-pilot test work campaign
• Exceptional product purity of greater than 99.5% V2O5
• Vanadium recoveries exceeding 75%
• Leach residence times reduced by 50% from Scoping Study design – positive implications for capital costs
• Preliminary feasibility study ("PFS") manager appointed, targeting completion in June 2021

As previously announced (refer to ASX announcement titled "Neometals Signs High-Grade Vanadium Recycling Agreement" dated 6th April 2020 **click HERE**), Neometals has executed a collaboration agreement with Critical Metals Ltd ("Critical"), to jointly evaluate the feasibility of constructing a facility to recover and process high-grade vanadium products from vanadium-bearing steel by-product ("Slag") in Scandinavia ("Slag Recovery Facility").

Neometals will fund and manage the evaluation activities, including the
completion of Class 5, 4 and 3 AACE engineering cost and feasibility studies up to consideration of a final investment decision, which, if positive, will earn Neometals a 50% interest in an incorporated joint venture with Critical ("JV").

Critical has executed a conditional agreement ("Slag Supply Agreement") with SSAB EMEA AB and SSAB Europe Oy, subsidiaries of SSAB ("SSAB"), a steel producer that operates steel mills in Scandinavia. Slag is a by-product of SSAB's steel making operations.

The Slag Supply Agreement provides a secure basis for the evaluation of a potential Slag Recovery Facility capable of processing 200,000 tonnes of Slag per annum without the need to build a mine and concentrator like existing primary producers.

Neometals is pleased to report the Mini-Pilot was constructed, commissioned and operated continuously through the campaign without any safety incidents or process challenges). The Mini-Pilot confirmed earlier bench scale findings including
vanadium recovery from leach through to solvent extraction (SX) strip liquor, demonstrated a successful process control strategy and has given invaluable insights into minor impurity deportment and their control through the circuit.

Of particular significance was the achievement of chemical-grade vanadium pentoxide at high recovery rates and low residence times. Passing this major technical milestone is important and gives

To read the full news release, please click HERE

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