

Benchmark Nickel Conference

Dr Stephen Grocott CEO

March 2021 ASX:QPM www.apmetals.com.au Re-energising battery metals production

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Company



John Downie

Managing Director

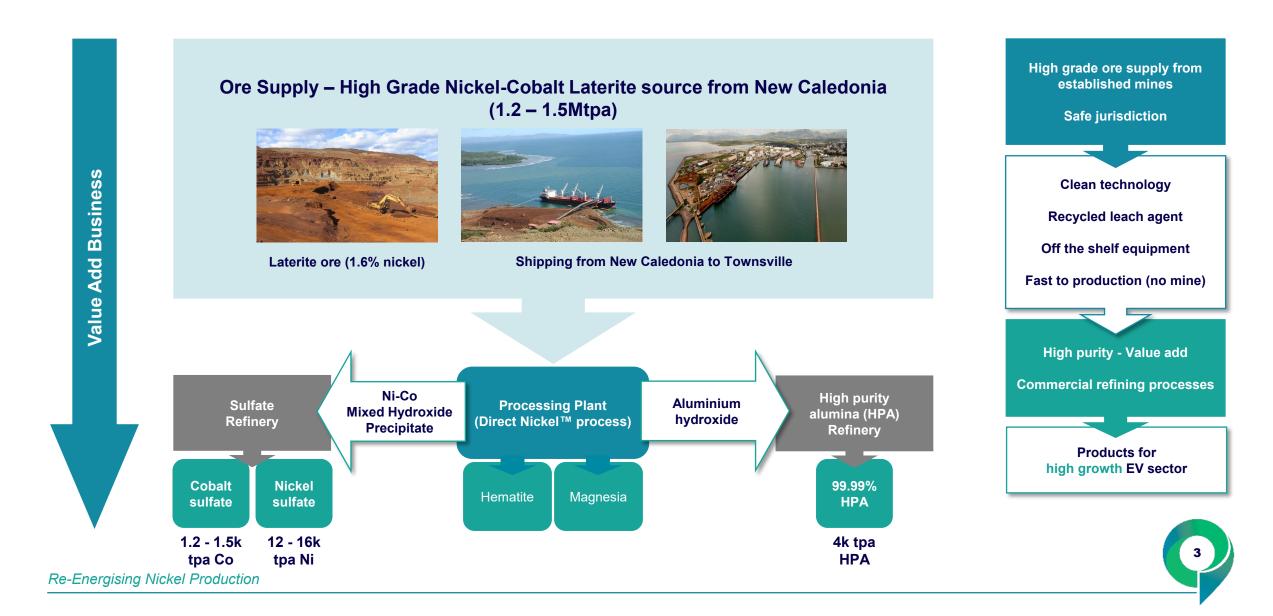
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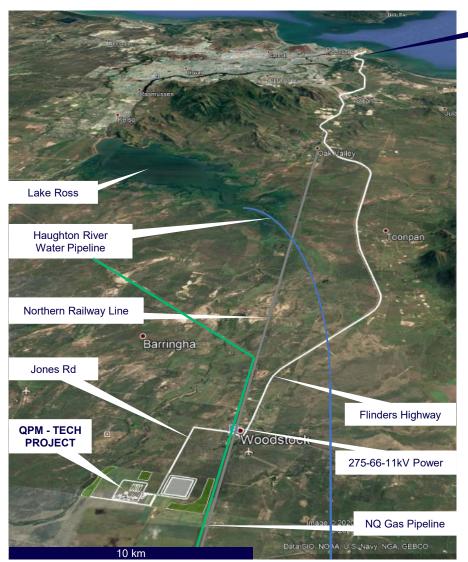
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Townsville Energy Chemicals Hub – "TECH Project"



Project Location: Lansdown





Ideal site (290 Ha) allocated to QPM in the Lansdown Eco-Industrial Precinct

- Zoned heavy industrial
- Water pipeline
- Gas pipeline (35 PJ/y capacity we need ~10 PJ/y)
- Electric transmission lines (275kV, 66kV and 11kV)
- Fibre optic communications
- Existing Ross River (140 MW) and Edify (400MW) solar arrays
- Road train access to Townsville Port (Flinders Highway)
- Rail line
- Environment gently undulating grazing land, sparsely wooded

Sources of Nickel

Nickel Sulfides

- Reserves depleting (and only < 30% of world nickel reserves)
- Sulfide ore usually processed through to concentrate
- Next processing steps are usually big, complex and long lead-time
 - Concentrate typically smelted to nickel sulfide matte
 - Matte then refined to nickel metal or sulfate
- New exploration finds slow to market vs QPM TECH Project



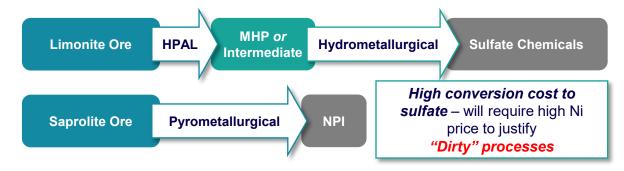
 Other processes to convert concentrate direct to sulfate chemicals are in the early stages of development (high risk)

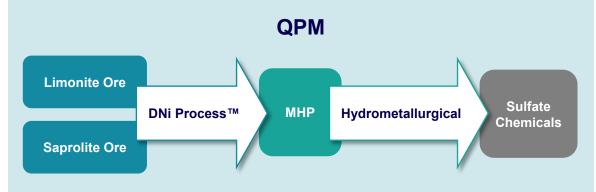
Nickel Laterites

- Limonite ore (high iron)
 - Typically processed through to MHP, which can then go straight to sulfate chemicals

- Saprolite ore (low iron, high magnesium)
 - Typically processed into nickel pig iron or ferronickel for stainless steel

Traditional







Where will the nickel sulfate come from – the cupboard is nearly empty?

Nickel pig iron	 Conversion to nickel sulfate is chemically possible but not economically attractive Needs high nickel price Very "ugly" environmental footprint
Ferronickel	• Ditto
Nickel sulfides or MSP	 Sustainability – tailings, acid mine drainage, etc Going from a sulfide concentrate to nickel sulfate is usually complex, difficult and expensive Going directly from sulfide direct to nickel sulfate is mostly at lab/pilot scale or challenging anyway, there's not enough sulfide resource to meet global demand
Nickel metal	 Common practice - temporarily filling the gap (at an incentive cost of ~US\$0.50 – 1.00/lb) But the world still needs some Class I nickel metal for stainless steel and alloys – so is this only a stop-gap measure? Class I metal deficit by 2024 – 2026?
High pressure acid Leach (HPAL)	 10 – 11 of 12 existing HPAL operations have failed to meet investor objectives In most geographies, sustainability challenges – ocean effluent, 1.2 – 1.4t tailings/t ore - dams or filtration (e.g. Goro - high capital) Indonesia? Barriers include sustainability (tailings, effluent), coal electricity, destined for China and jurisdiction High capital intensity US\$60 - \$120k/annual tonne nickel-equiv (including ESG capital) Low availability (averages << 80%) Long ramp up (averages >5 years) Slow development (minimum 5 yrs, typically >10 yrs) Complex technology (can be done but you have to be "good" to develop, build and operate)
MHP refinery	 But where will the MHP come from – HPAL (see above !) Brownfields refinery (with HPAL) is attractive but adds to capital



Direct Nickel Process™ - Advantages

Nitric acid leaching: most efficient acid

- Low temperature, atmospheric pressure
- Treats entire orebody
- Simple alloys/construction
- 97% metal extraction
- Licensed from Altilium Group

Recycle/re-use > 98% of the leaching agent

- Reduces operating costs
- Greatly reduced environmental impact

Product options:

 Mixed Hydroxide Product MHP (>40% nickel) or refined, battery-grade products

Co-product revenues: hematite, magnesia, High-Purity Alumina

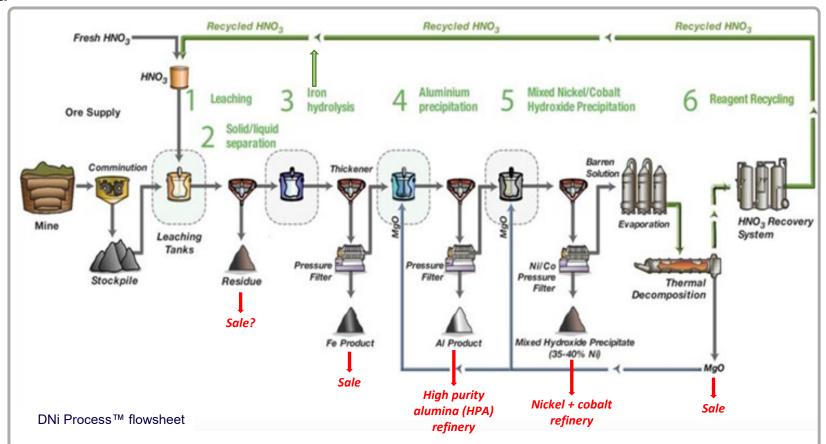
Little or no residues

Scalable:

Stirred tanks – just make them bigger

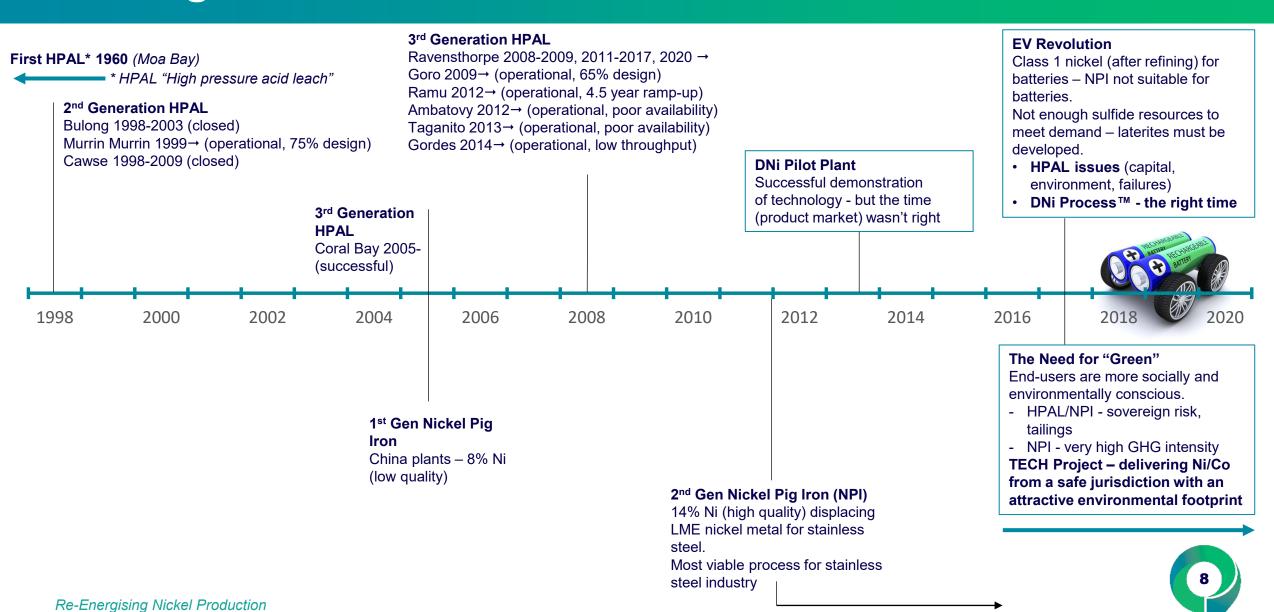
Speed to market:

- Approvals no mine, no effluent, no tailings
- Construction simple stainless steel alloys and vessels





The Right Time for the Direct Nickel Process



MOUs for Offtake – LG Chem and Samsung



QPM and LG Chem agree to negotiate a binding offtake agreement for:

- 3-5 year term
- 10,000tpa contained nickel
- 1,000tpa contained cobalt
- Consideration of prepayment by LG Chem

Refer to ASX Announcement 15 October 2020

SAMSUNG SDI



QPM and Samsung SDI agree to negotiate a binding offtake agreement for:

- 3-5 year term
- 6,000tpa contained nickel

Refer to ASX Announcement 26 November 2020

Implications for the TECH Project

- Attracting the attention of world class, bankable offtake partners
- QPM is being recognised as a potential supplier to address the growing concerns in the industry with respect to nickel supply
- Provides confidence that demand is there for larger scale TECH
 Project
- Competitive tension for offtake negotiations
- Vote of confidence from two world-class battery manufacturers



Sustainable Nickel Production

Global leader in lowest CO₂ emissions for nickel sulfate production

- Industry average (Nickel Institute) is 24.2kg CO₂/kg nickel (NB: excludes China)
- QPM TECH is one third lower than industry average
 - 15.4kg CO₂ per kg nickel-equivalent (in nickel sulfate)
- Emissions can be further reduced by using vented/flared gas from existing coal mines (CO₂ credit received)
- Nickel matte derived from nickel pig iron or ferronickel, is not a clean source of nickel for nickel sulfate
- Refining nickel matte is complex and capital intensive it only takes place at a few places in the world

	1 kg nickel in										
	Class 1 Ni (>99.8% Ni)	Nickel Pig Iron	Nickel Sulfate (Nickel Institute)	Ni Sulfate (QPM TECH)							
CO _{2-eq} emissions (kg)	13	45	24.2	15.4							

No Tailings Dam

- All metals are leached into solution and nitric acid is recycled
- Residue is an inert silicate (dry stacked or re-purposed)
 - James Cook University investigating use in commercial opportunities such as engineered landfill



Pilot Plant Activities



QPM Pilot Plant located at ALS Global Hydrometallurgy Centre of Excellence, Perth, Western Australia

Project Schedule

	in-21	eb-21	lar-21	pr-21	lay-21	ın-21	ıl-21	ug-21	ep-21	ct-21	ov-21	ec-21	in-22	eb-22	lar-22	pr-22	lay-22	ın-22	ıl-22	ug-22	ep-22	Oct-22	22-00	n-23	ab-23	lar-23	pr-23	lay-23	ın-23	1-23	ug-23	ep-23	ct-23	ov-23	ec-23
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Base Case																																			
Pilot plant activities																																			
Project approvals																																			
Definitive Feasibility Study																																			
FEED (detailed design)																																			
Funding																																			
Construction																																			
Production																																			

Funding Considerations

Project Feasibility Stage (current)

- Piloting
- Feasibility studies
- Regulatory approvals
- Secure project partners/offtake
- Front-end engineering design (FEED) and capital conformation

Funding Options

- Traditional equity investors
- Strategic investment by partner(s)/offtaker(s)
- Government grants including manufacturing grant
- R&D tax incentive

Project Construction – Funding Options

QPM is advancing discussions with a number of parties regarding debt and equity funding for the TECH Project. Achieving success in the project feasibility stage will increase the value of the company and open doors to funding opportunities for project construction.

Debt

- Project Partners: Strategic opportunity for a 'Big Brother' to be involved in a project that would be a game changer for the nickel industry
- NAIF: TECH Project meets NAIF criteria being in Northern Australia, is a centralised processing plant and will deliver many social benefits to Townsville and surrounding region
- Export Finance Australia: EFA is targeting assistance to critical minerals projects, which the TECH Project will produce
- Offtake Finance: Offtake is in high demand given the lack of nickel supply end users understand the need for project participation or funding to secure offtake
- International Export Credit Agencies: Potential to obtain international ECA funding, particularly for plant and equipment being sourced from overseas

Equity

- Project Partners/Offtakers: Securing project or offtake participation by way of equity investment
- Institutional Investors: Traditional equity investors targeting critical minerals investment
- Green Funds: Many funds targeting green investments and the emerging EV sector



Corporate Overview

Capital Structure									
Shares on issue	1.21B								
Share Price	8.5c								
Market cap	A\$103M								
Top 20	38%								

Board and Key Management							
Eddie King	Non Exec Chair						
John Downie	Managing Director						
Cameron Mclean	Non Exec Director						
Stephen Grocott	CEO						



The QPM TECH Project

