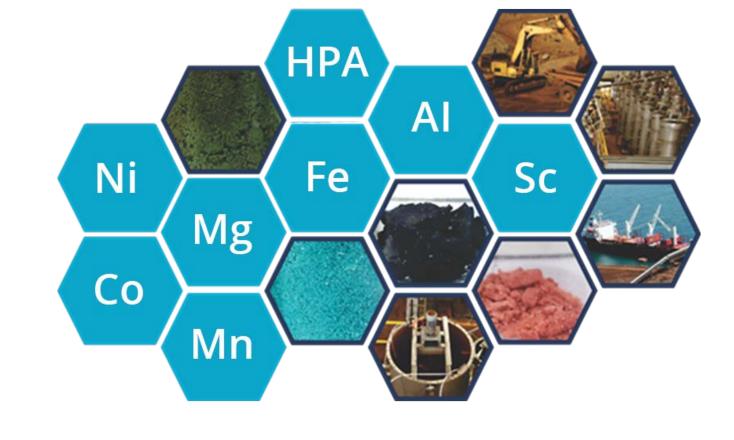


Investor Presentation

September 2020

ASX: PM1





Developing innovative processing technologies to produce nickel sulphate, cobalt sulphate and High Purity Alumina

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Company:

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Capital Raising



~\$4,400,000 Placement

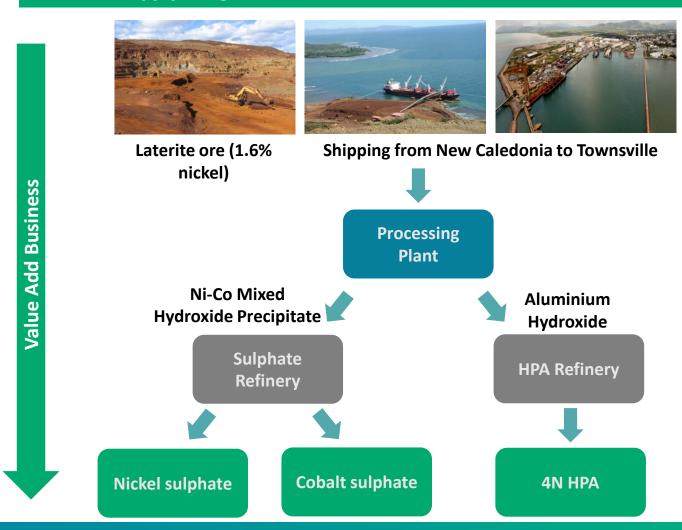
Two tranche placement to institutional and sophisticated investors

Use of Funds	
Piloting testwork including production of intermediate products and subsequent refining to battery grade chemicals	A\$3.0M
TECH Project advancement - approvals, feasibility work, infrastructure	A\$0.5M
Corporate & admin	A\$0.5M
Working Capital	A\$0.4M
Total	A\$4.4M

PM1 PROPOSITION - Townsville Energy Chemicals Hub (TECH)



Ore Supply – High Grade Nickel-Cobalt Laterite source from New Caledonia



High grade ore supply from established mines

History of delivering consistent grade to minimise variability

Safe jurisdiction



Clean technology
Recycled leach agent
Off the shelf equipment
Fast to production (no mine)



High purity - Value add commercial refining processes



Products for high growth EV sector

PM1 Proposition



High Grade Ore Supply

- ✓ Secured high grade 15 year ore supply agreement with two major New Caledonia mining companies highest quality ore bodies in the world.
- ✓ High grades ~1.6% Ni / ~0.17% Co to be supplied from existing mines
- ✓ Consistent quality and tonnage, supplied Queensland Nickel Refinery for 38 years, low mining/exploration risk

No Mining Required

- ✓ Reduced environmental footprint
- ✓ No flora/fauna/native title considerations
- ✓ Faster approvals process than a traditional mining project

Demonstrated Technology

- ✓ Although the DNi Process hasn't been commercialised, and therefore carries some risk, offsetting this are the facts that:
 - The technology has been extensively tested on a wide range of ores (Brazil, Australia, Indonesia, New Caledonia)
 - The individual unit operations within the flowsheet are commercial in other industries
 - Process equipment is simple and "off-the-shelf" no special alloys, no huge autoclaves, low pressure (atmospheric)
- ✓ Nitric acid is recycled cost advantage over HPAL
- ✓ Recovery of all valuable metals in the ore

Townsville site secured at Lansdown Park

- ✓ Extensive infrastructure network including Port, Rail and Road and multiuser opportunities
- ✓ Long term history of handling and processing imported ore from New Caledonia/Philippines/Indonesia
- ✓ Skilled labour and engineering support

Modest Environmental Footprint

- ✓ Residue is benign and only represents 20% of original ore feed no tailings dam required
- ✓ Potential to utilise residue as engineered landfill this would make the TECH Project have zero solids discharge
- ✓ "Green" appeals to ultimate end users of battery chemicals who are very socially and environmentally conscious

Experienced Management

- √ Combined 60+ years nickel laterite experience
- ✓ Experience in New Caledonia and with majors Rio Tinto, BHP and Alcoa
- ✓ Strong project development knowledge

FLOWSHEET - Process plant to produce feedstock for refinery



Nitric acid leaching advantages

Nitric acid leaching: most efficient acid

- Low temperature, atmospheric pressure
- Treats entire orebody
- Simple alloys/construction
- 95% metal extraction
- Licensed from Direct Nickel (DNi ProcessTM)

Recycled: recycle/re-use > 98% of the leaching agent

- Significantly reduce operating costs
- Greatly reduced environmental impact

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

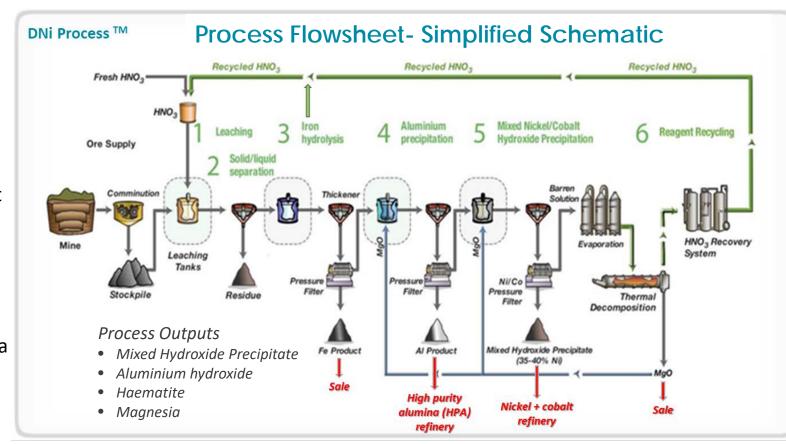
Co-product revenues: Haematite, Magnesia, Alumina

• Little or no residues

Scalable: Stirred tanks – just make them bigger

Speed to market:

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



DNi Process™ vs High Pressure Acid Leach (HPAL)



	DNi Process™	HPAL		
Ore Feed	Full lateritic ore profile	Limonitic ore (typically or low Mg saprolite ¹)		
Ore Preparation	Ore drying	No drying required		
Pressure	1 atmosphere	Up to 44-59 atmospheres		
Temperature	100°C	250-270℃		
Plant Materials	304-series stainless steel	Titanium-lined autoclaves and piping		
Acid Consumption	25-80 kg of nitric acid (68%) per tonne of dry ore processed² ≥98% of the nitric acid is recycled	250-500 kg of sulphuric acid (98%) per tonne of ore processed		
Waste Materials	Environmentally inert dry nitrogen-rich residue, contributing to mine rehabilitation as a fertiliser	Tailings about 3x the volume of the DNi Process requiring neutralisation, containment and indefinite monitoring		
Product	Mixed (Ni-Co) Hydroxide Product	Mixed (Ni-Co) Hydroxide Product		
By-Products	Haematite, Magnesia, Aluminium hydroxide, Manganese, Scandium	Ammonium sulphate, Scandium		
Technology	Easily scalable (stirred tanks, not complex pressure vessels) Yet to be proven at commercial scale	High capacity required to reach economic threshold Works, but with a majority of commercial failures ³		

^{1.} Mg content contributes to high acid consumption

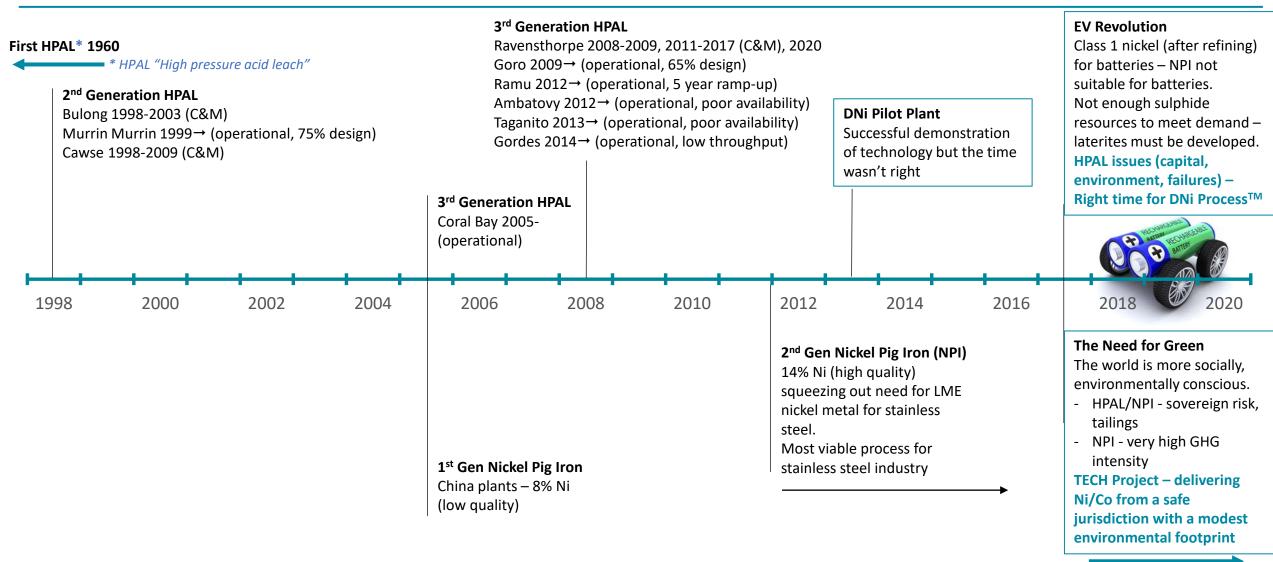
Source: Direct Nickel, Pure Minerals, Terra Studio

^{2.} While nitric acid is significantly more expensive than sulphuric acid, the DNi ProcessTM includes the ability to recycle >98% of the nitric acid

^{3.} Economic and/or technical failures: Bulong, Cawse, Ambatovy, Goro and Ravensthorpe

Projected EV Nickel Demand - The Right Time for DNi Process™





Piloting Activities



QPM's pilot plant activities will:

- Demonstrate flowsheet with representative ore
- Produce samples for potential customers
- Generate results to feed directly into a Bankable Feasibility Study
- Provide opportunities for investor visits (physical or virtual)
- Clear the path to start Definitive Feasibility study







Q1→ 2021
MHP will be further refined to produce battery chemicals Nickel sulphate and Cobalt sulphate at CSIRO.
Samples to be provided to potential offtakers



Completed ✓
Bulk Sample sourced from
New Caledonia partners
has been transported to
Perth

Representative Ore



Q3/Q4 2020
Direct Nickel pilot plant to be assembled and operated at ALS Global





Q1/Q2 → 2021 Aluminium Hydroxide will be further refined to produce 4N HPA. Samples to be provided to potential offtakes



High Grade Haematite

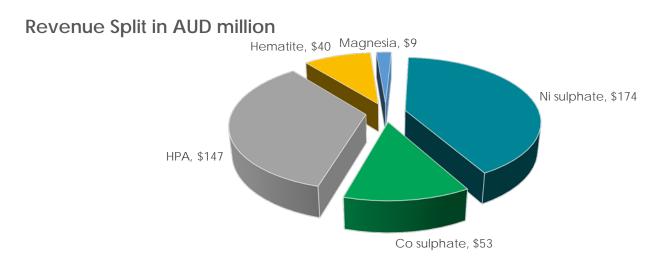


Q1/Q2 2021 Haematite will be used for iron collaboration with Sun Metals (wholly owned subsidiary of Korea Zinc)

ROBUST FINANCIALS: Base Case EBITDA of AUD 261m/a



Key Physical Outputs							
		Annual Production (t)					
Nickel Sulphate		26,400 t					
Cobalt Sulphate		3,100 t					
High Purity Alumina (4N) HP	PA .	4,000 t					
Haematite		327,700 t					
Magnesia		20,100 t					
Capital and Operating Costs							
Assumed 0.68 AUD:USD							
Capex (excluding contingency)		AUD 554m					
Contingency		AUD 96m					
Operating Expenditure		AUD 163m/a					
Key Metric	Units	Base Case	Spot Case				
Nickel Price	US\$/lb	7.00	5.70				
Nickel Sulphate Premium	US\$/lb	2.00 2.0					
Cobalt Price	US\$/Ib	25.00	14.15				



Incremental Annual EBITDA



US\$/t

AUD (m)

AUD (m)

Years

25,000

261

1,470

30.7

3.5

20,000

211

1,080

24.9

4.25

HPA Price

Post Tax NPV

Post Tax IRR

Capital Payback

Refer to ASX announcement 7th April 2020

EBITDA

Pathway to Funding



Project Feasibility Stage (current)

- Piloting
- Feasibility studies
- Regulatory approvals
- Secure project partners/offtake

Funding Options

- Traditional equity investors
- Strategic investment by partner/offtaker
- Government grants
- R&D tax incentive

The aim at this stage is to deliver strong shareholder returns by advancing and derisking the TECH Project

Project Construction - Funding Options

Achieving success in the project feasibility stage will increase the value of the company and open doors to funding opportunities for project construction

Debt

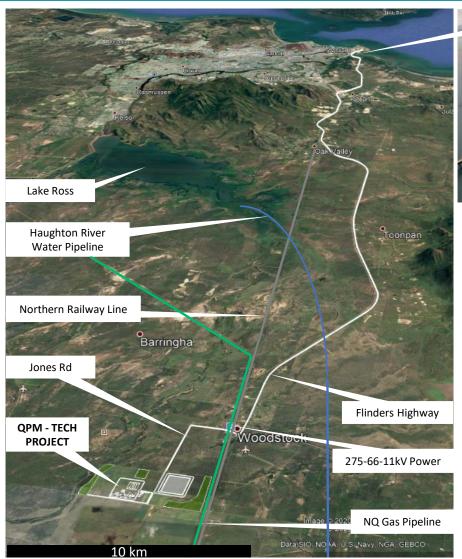
- Project Partners: Strategic opportunity for a 'Big Brother' to be involved in a project that would be a
 game changer for the nickel industry
- NAIF: TECH Project could be suitable for NAIF funding being in Northern Australia and will deliver many social benefits to Townsville and surrounding region
- 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

LOCATION: Ideal Infrastructure Setting







Ideal site (290 Ha) allocated to QPM in the Townsville Industrial Precinct.

- Water pipeline
- Gas pipeline (35 PJ/y capacity we need 4 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
- Zoned heavy industrial

SULPHATE REFINERY- Townsville Energy Chemicals Hub (TECH)

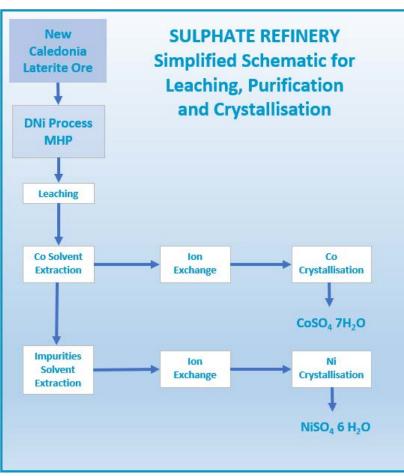




QPM Product Samples Mixed Hydroxide Precipitate MHP, Cobalt sulphate, Nickel sulphate and Manganese sulphate



CSIRO Waterford (Curtin University Western Australia) Pilot Plant Location



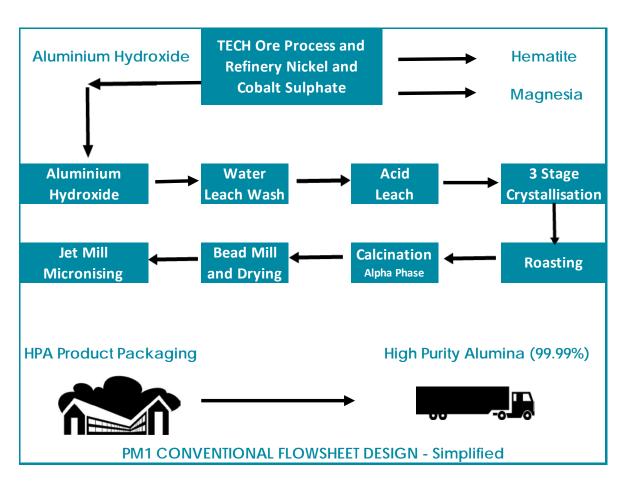
QPM Refinery flowsheet development by CSIRO Exclusive Licence to QPM

Nickel Sulphate Hexahydrate			Cobalt Sulphate Heptahydrate				
Impurity	Unit	Typical Specification Target	PM1 target	Impurity	Unit	Typical Specification Target	PM1 target
Al	ppm	<5	<5	Al	ppm	<5	<5
Ca	ppm	<10	<7	Ca	ppm	<25	<20
Cd	ppm	<3	<1	Cd	ppm	<5	<1
Cl	ppm	<25	<10	Cl	ppm	<50	<10
Со	ppm	<50	<30	Со	%	>21.0%	>21.0%
Cr	ppm	<3	<1	Cr	ppm	<3	<1
Cu	ppm	<5	<3	Cu	ppm	<5	<3
Fe	ppm	<5	<3	Fe	ppm	<5	<3
Mg	ppm	<20	<20	Mg	ppm	<10	<10
Mn	ppm	<5	<10	Mn	ppm	<5	<5
Na	ppm	<25	<20	Na	ppm	<25	<20
Ni	%	>22.0%	>22.0%	Ni	ppm	<50	<30
Pb	ppm	<5	<3	Pb	ppm	<5	<3
Si	ppm	<10	<10	Si	ppm	<10	<10
Zn	ppm	<5	<3	Zn	ppm	<5	<3
TOC	ppm	<50	<50	TOC	ppm	<50	<50
Water Insol	ppm	<100	<100	Water Insol	ppm	<100	<100
Magnetic Sub.	ppb	<50	<50	Magnetic Sub.	ppb	<50	<50

QPM Target elemental specifications (%) for battery grade nickel and cobalt sulphate

HPA REFINERY - Townsville Energy Chemicals Hub (TECH)





Company Comments

Alpha HPA - Most highly valued by the market, so this could assist with financing. Innovative front end involving no mining, with SX recovery. Secretive aspects make it harder to evaluate technical risk.

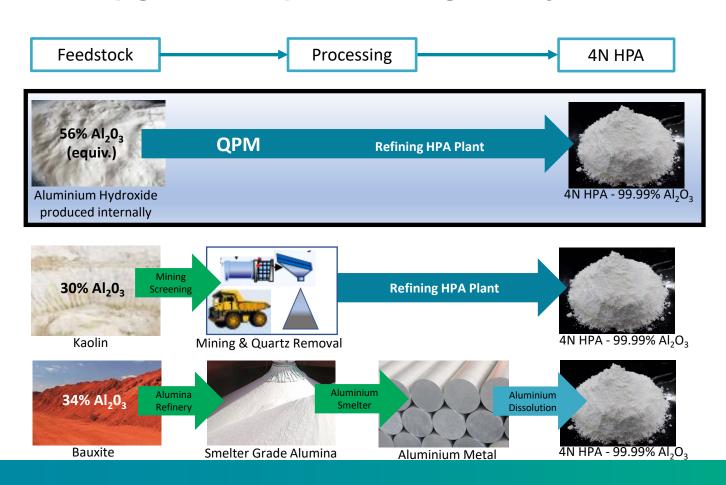
Altech Chemicals - Most commercially advanced with construction of site facilities, partially financed, but most expensive on capex and opex comparisons

Queensland Pacific Metals - No mining, off the shelf 3-stage crystallisation that is well-proven, lowest opex and capital, high grade aluminum hydroxide feedstock (by-product) from integrated ore processing plant. Boehmite product option instead of HPA.

OUR HPA ADVANTAGE: Best in the Business



Project Economics Boosted with Aluminum Hydroxide Co-Product Upgraded to produce High Purity Alumina HPA (4N) in lowest cost quartile



CRU¹ forecast 272,000 tpa of HPA demand by 2028 (i.e. 30% CAGR² demand growth by 2028)

- Future LED³ markets will require higher quality HPA
- LIB⁴'s separators demand 187,000 tpa by 2028
- LED's demand forecast 85,000 tpa by 2028
- Significant supply deficit forecast

¹ Commodity Research Unit (CRU) market analysts

² Compound Annual Growth Rate (CAGR)

³ Light Emitting Diode (LED)

⁴ Lithium-Ion Batteries (LIB)

FAST TRACK PROGRESS: Over the last twelve months





Target Milestones



Piloting and Feasibility

- Piloting of DNi process on New Caledonian ore to produce MHP, haematite and aluminium hydroxide
- Piloting of process to refine MHP to battery grade nickel sulphate and cobalt sulphate
- Piloting of process to refine aluminium hydroxide to 4N HPA
- Testwork on haematite with Sun Metals
- Firm up project size
- Commencement of Bankable Feasibility Study

Marketing and Offtake:

- Provide samples to potential customers
- Broaden marketing base (current focus has been on Asia)
- Secure project involvement by way of offtake, partnership, investment or funding with end users

Other Project Advancement

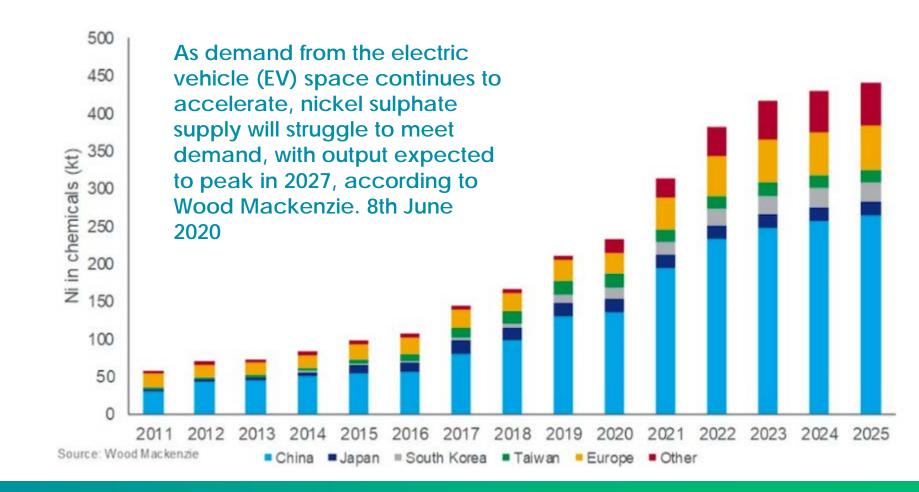
- Finalise reservation deed for Lansdown property in Townsville
- Finalise port access
- Arrange access to other supporting infrastructure
- Apply for project of state significance in Queensland
- Commence regulatory approvals
- Evaluate opportunity for commercial use of tailings as potential landfill

NICKEL SULPHATE OUTLOOK: Strong Battery Market Fundamentals



- Wood Mackenzie predicts production of nickel in chemicals could rise from 211,000 tpa in 2019 to a peak of 450,000 tpa nickel in 2027
- The EV sector could drive demand to reach 800,000 tpa nickel by 2035
- It is feasible that these premiums for nickel sulphate in the battery sector will be available in the years ahead
- The sector's requirements for higher-purity nickel sulphate will be a key consideration for premiums

Global nickel in chemicals production by country



Priscila Barrera - June 8th, 2020