Critical metals for a low-carbon future



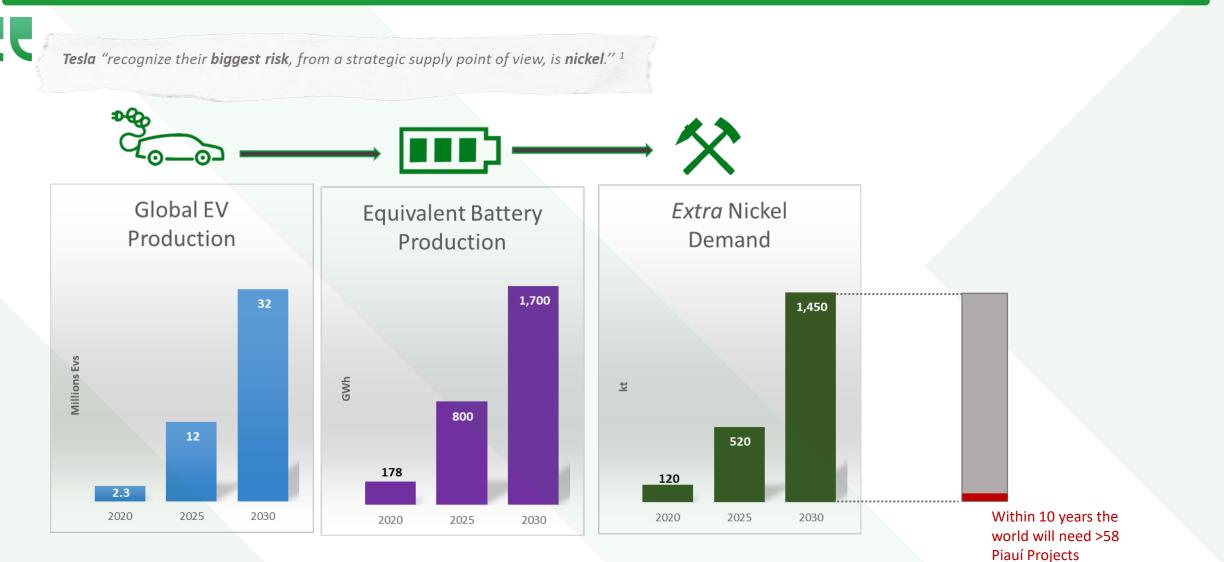


Nickel and The Low Carbon Economy

19-21 JANUARY 2021

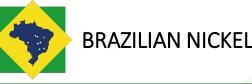
The Nickel Crunch

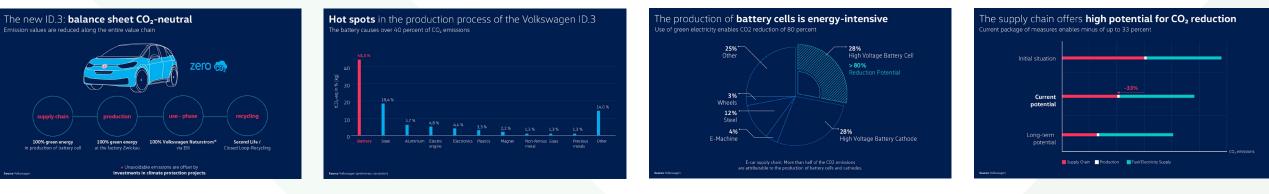




¹ Bloomberg, 2020

OEMs aiming for Carbon Neutrality



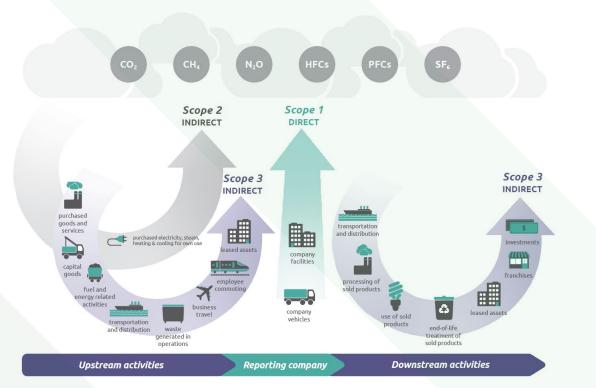


>40% CO₂ emissions from battery

- Zero carbon is currently only possible from cell manufacture and beyond
- Even then only with use of renewable energy in all stages of manufacture
- There are therefore huge opportunities for carbon reduction in the raw material supply chain

CO₂ Emissions of Nickel Production





Scope 1 & 2 (Cradle to Gate) Emissions Kg CO2/Kg Ni produced **PNP** Class 1 NiSO4 FeNi NPI

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Source : GHG Protocol, Chart Class1, FeNi & Sulphate Nickel Institute, NPI Oct 2020 Article in Energies



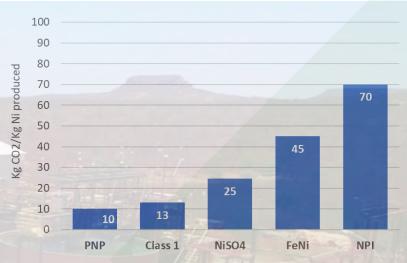
Further CO₂ Reduction Possible

Already inherently low for HL, but

How to further reduce our carbon footprint?

- BRN is working on a more detailed independent LCA
- Current situation has lower CO₂ emissions than other nickel production
 - 80% of Class I; 42% of NiSO₄; 23% of FeNi; 15% of NPI
- BRN is working on innovations to lower or remove any CO₂ emission
 - CO₂ capture in the impurity removal circuit with high MgSO₄ process solutions
 - C sequestration in both mine bedrock and waste products.
- Electrification of transport fleet.

On site renewable energy with ESS for any back-up power if/when required
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Not just CO₂ that is important but ESG



Nickel & Cobalt Production must also have:

- Strong Sustainability & ESG credentials
- Environmental Sensitivity
- Responsible Sourcing
- Efficient Logistics
- Shared benefits
- Transparency (EITI)
- Effective Closure Planning

Tesla will give you a giant contract for a long period of time, if you mine nickel efficiently and in an environmentally sensitive way...¹

Nickel investing comes with a heavy price The metal is in short supply and hard to source ethically ²

> ¹ Elon Musk, CEO Tesla, 2020 ² Financial times, 2020

Environmental Sensitivity - Heap Leaching at Piauí

- Simple flexible technology at *ambient* conditions:
 - Reduces energy intensity
 PNP has negative energy sells 12-15KW power back to the grid.
 HPAL of equal size would require approx. 3x energy
 - Increased resource utilisation, less mine waste & longer operational life all ore above cut-off is processed, no blending or separation of ore types required. Leaches saprolite, limonite and transition material
- Optimized Process

Minimizes water use and acid consumption

Only solid residues –

no tailings dams required no deep sea disposal

 Nickel Hydroxide intermediates as final product ~50 % Ni (dry basis)

better for transport to customer

- Power for the operation from on site H₂SO₄ plant, Carbon Free with excess sold to national grid
- Local Community Engagement & Support
- Legacy Plan closure with local communities to give a lasting positive legacy

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Brazilian Nickel: Our ESG & Sustainability approach



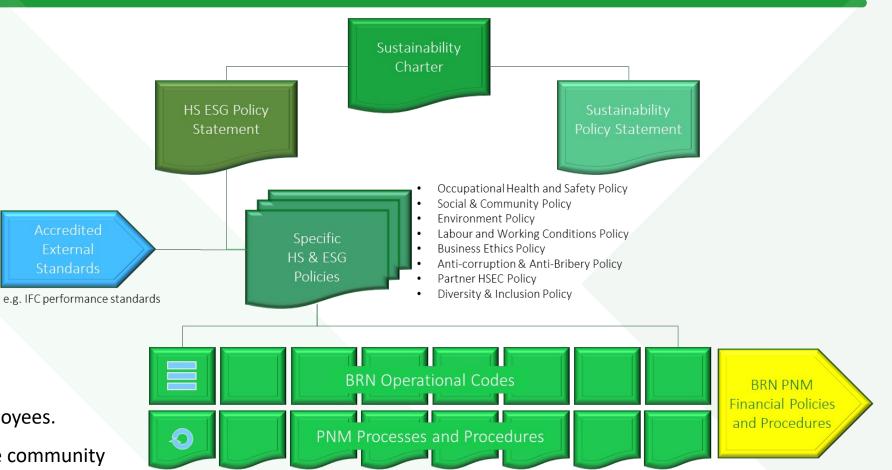
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BRN's Sustainability Charter

... provide long-term benefits through continuous improvements in health, safety and environmental performance ... sharing the benefits of our activities with the communities within which we operate.

We will achieve this by:

- Targeting Zero Harm to our employees.
- Leaving a **positive legacy** in the community
- **Conserving** and where possible enhancing the natural environment.
- Respecting and protecting the rights of employees and host communities.
- Doing Business Responsibly and Transparently
- Ensuring adequate return for shareholders.



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Brazilian Nickel and the Piauí Nickel Project - Status Jan 2021

Dec 2020 finalised a US\$ 27.57 million equity investment Currently completing a further US\$ 15 m debt facility

Use of Funds:

- Early production ("The PNP1000")
- Completion of a Bankable Feasibility Study ("BFS") for the full-scale Piaul Nickel Project

All Environmental Permits awarded

Full Scale Project

25,000 tpa Ni contained in NHP

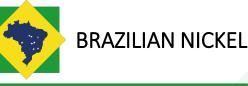
USD 465M Max exposure (approx. 1/3rd of competing technologies) NPV 10% USD 1.14 billion 900tpa contained in CHP

C1 Opex USD 6,130 (lowest quartiles)

IRR 53%

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The PNP 1000 – Fast Track to Producer Status





Description

- Converts existing Demo Plant (DP) into small production unit
 - -1,400 tpa nickel and 35 tpa cobalt
- Uses existing mining rights
- US\$ 23 million capex/working capital/contingency

Benefits

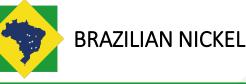
- Further develops customer portfolio
- Provides cash flow e.g. in full-scale construction period
- Enhances industrial partnership opportunities
- Continues work force development and training

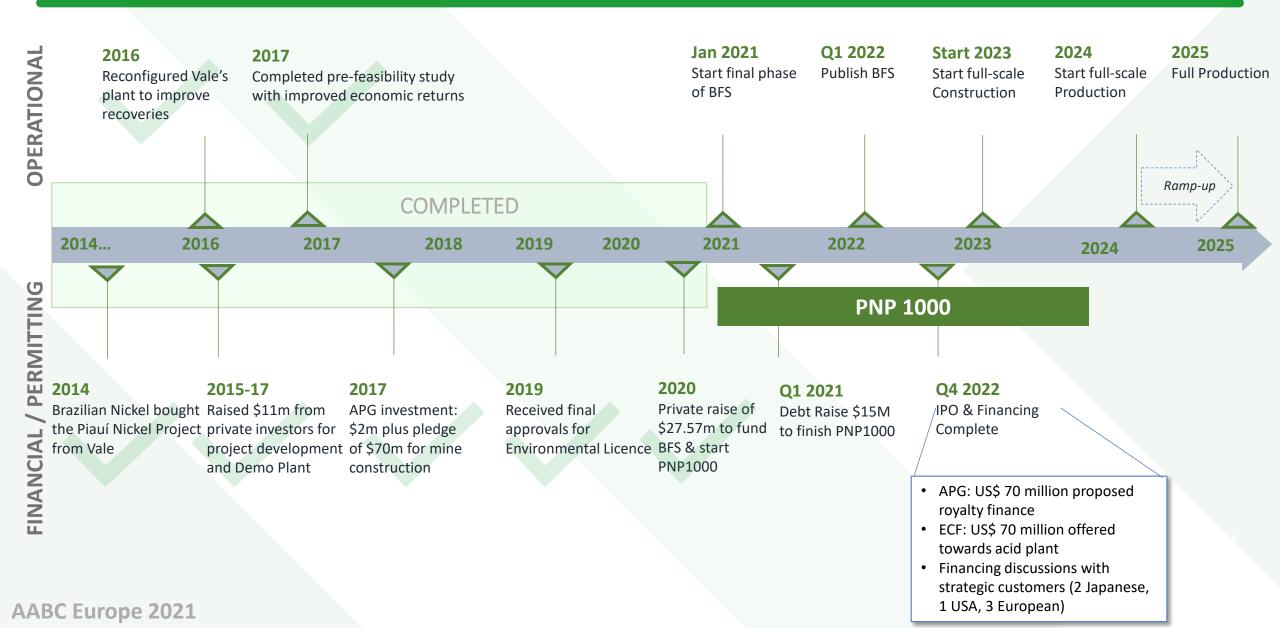
Schedule

- Jan-21 Kick-off
- May-21 Mining begins
- Nov-21 Plant Construction complete
- Mar-22 "First Nickel"

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The PNP Development Schedule





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Nickel and Cobalt

Made Easy

Global Policy Statements for Decarbonization

Paris Agreement leads

Decarbonization is very metal intensive

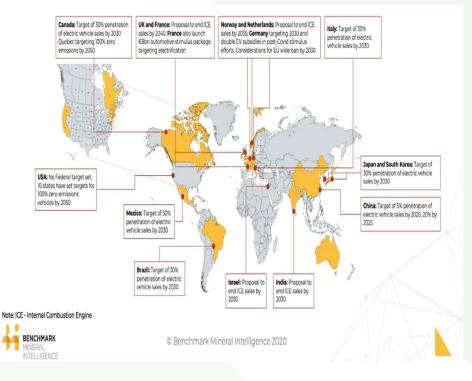
Increasing Regulation & Policy

Policies include: Zero Emission Goals by 2050 or earlier ICE reduction or bans EV Growth incentives

EU Green Deal Electric Vehicles Inititiative EVI – 15 member countries EV30@30 – 10 of the EVI countries signed up

Air pollution – not carbon is a driver for some

UK is now 2030



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