# NICKEL INDUSTRIES

**Bell Potter** 

Emerging Leaders Conference
May 2024

A top 10 nickel producer strongly positioned to capture growing battery grade nickel demand

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## **Introduction to Nickel Industries Limited**



### Who are we?

- ASX listed (NIC)
- Low-cost, globally significant, diversified nickel producer currently producing NPI, nickel matte and MHP in partnership with Tsingshan
- Continuing to transition into class-1 nickel by scaling up MHP production in additional to adding nickel sulphate and nickel cathode to our production mix
- Fully funded for this next phase of growth (ENC HPAL Project) with significant interest in project offtake and investment from global EV and battery makers
- Leader in responsible and sustainable mining in Indonesia
- Significantly undervalued versus global nickel peer set and broader industrial peer set
- Consistent dividend payer
- Primed to re-rate as nickel sector sentiment improves

### What is our vision?

 Our vision is to become the world's pre-eminent global nickel company with an unrivalled platform of diversified, low-cost, sustainably produced nickel products, underpinned by global best practice mining standards

### How can we achieve this?

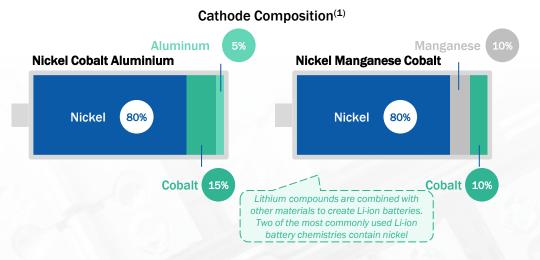
By advancing the sustainability of Indonesia's nickel industry by playing a leadership role in promoting and implementing industry best practices across our mining and downstream processing operations with the support of the local communities in which we operate



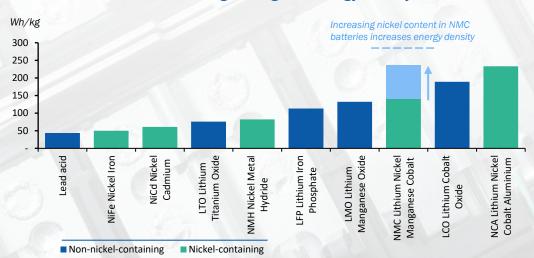
# Nickel has a critical role to play in global electrification and battery roll-out



### Nickel plays a crucial role in battery cathode chemistries...

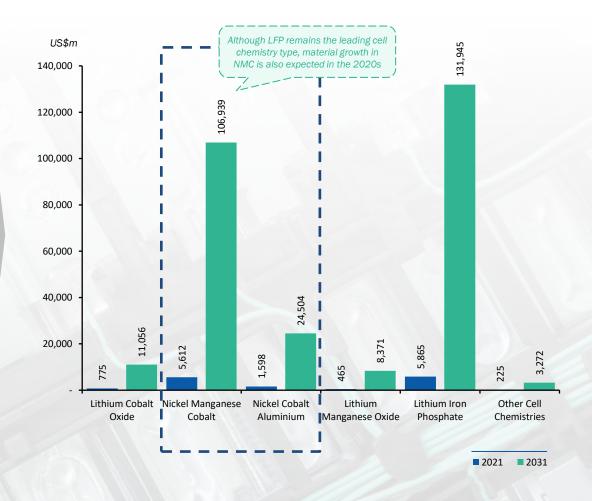


### ...with nickel batteries offering the highest energy density on the market<sup>(1)</sup>...



### ...driving the bifurcation towards high-nickel cathode chemistry choices

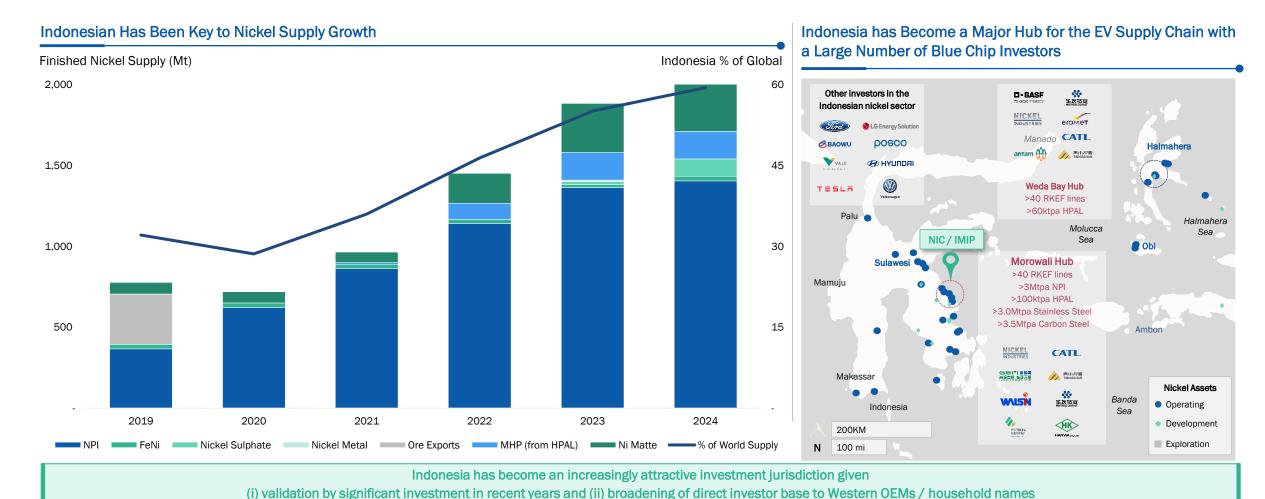
Lithium-ion battery metals market (by cell chemistry) from 2021 to 2031<sup>(2)</sup>



<sup>(1)</sup> Source: Nickel Institute, 2021 Review - Nickel Energizing Batteries.

# Indonesia is now the World's largest nickel producer

NIC has been a long time in-country investor and is well positioned in the epicentre of all new global nickel growth



Source: Broker Reports

# **Significant Foreign Investment in the Indonesian Nickel industry**

Indonesian nickel industry is attracting investment from global EV supply chain participants, focused on securing long term supply

Indonesian Government initiatives			have facilitated and encouraged significant influx of foreign investment and expertise into the onshore nickel supply chain			
	Jan-20: Bans exports of unprocessed nickel ore		Company	Description		
		Dec-20	□-BASF eramet	BASF and Eramet sign a joint agreement to assess the development of a nickel and cobalt hydrometallurgical refining complex		
		Dec-20	<b>6</b> LG Energy Solution	Investment Ministry signs an MoU with LG Energy Solution on integrated EV battery investment		
		Sep-21	♠ LG Energy Solution ♠ HYUNDAI	LG Energy and Hyundai Motor Group start construction of a US\$1.1bn battery cell plant, the first stage of an US\$9.8bn deal to develop integrated EV battery facilities		
	Mar-21: Establishes Indonesia Battery Corporation (IBC) to cooperate with foreign investors in developing an EV battery supply chain	Feb-22	AN田业	A joint venture between Zhejiang Huayou Cobalt, Tsingshan Holding Group and China Molybdenum Co makes the first shipment of nickel mixed hydroxide precipitate to China from Morowali		
		Mar-22	<b>Ø</b> НҮЦПДАІ	Hyundai launches a plant in Indonesia to produce battery-powered Evs		
V		Apr-22	∰antam <sup>©</sup> <b>CATL</b>	IBC and state mining company Aneka Tambang sign a framework agreement with CATL Group, through its subsidiary Ningbo CBL for partnership including nickel mining and EV battery manufacturing		
		Jun-22	<b>t</b> LG Energy Solution	LG Energy breaks ground on a US\$3.5bn nickel sulphate smelter in Batang, Central Java. It will also build a US\$2.4bn factory in the Batang park to produce precursor and cathode components		
	Jan-22: Investment Ministry signs an MoU with Foxconn, Gogoro Inc, IBC and Indika Energy for investment in EV battery development	Aug-22	general motors (SAIC)	Production of the Wuling Air EV is launched in Indonesia. It is being built by SGMW Motor Indonesia, part of a joint venture of SAIC Motor Corp Ltd, General Motors Co and Wuling Motors		
		Sep-22	VALE <b>华克钴业</b>	Vale Indonesia signs an agreement with Zhejiang Huayou to build a second nickel MHP plant		
V		Nov-22	EcoPro SK on 伝伝I▼I 植林美	SK On has signed a MOU with EcoPro, a Korean secondary battery material company, and GEM, a Chinese precursor producer, to build a MHP plant in IMIP, Indonesia		
		Jan-23	∰ anтam <sup>©</sup>	Aneka Tambang and Hong Kong CBL Limited, a subsidiary of CBL, sign a conditional share purchase agreement for partial CBL ownership on Antam's nickel mine in East Halmahera, North Maluku		
	electric cars, scooters and buses to boost EV adoption and help secure investment from global EV	Mar-23	Ford	Ford joins Vale Indonesia and Zhejiang Huayou Cobalt as the new partner in a US\$4.5bn nickel MHP plant with commercial operation expected to begin in 2026		
		Apr-23	Volkswagen 🛞	Volkswagen commences feasibility study into US\$5bn Indonesian battery factory in co-operation with Vale, Huayou Cobalt and Ford Motor		
		Jan-24	BYD	China's BYD to build US\$1.3bn EV manufacturing plant and facilities that will have a capacity of 150,000 EV units, expected to become operational in 2026		

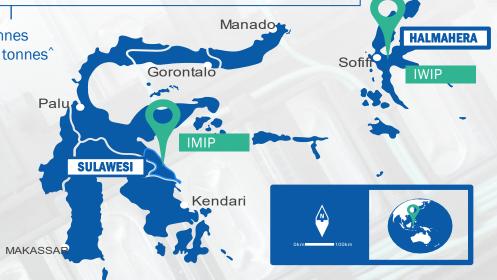
# **Overview of Nickel Industries processing operations**



	Hengjaya Nickel (HNI)	Ranger Nickel (RNI)	Angel Nickel (ANI)	Oracle Nickel (ONI)	Huayue Ni-Co (HNC)	Excelsior Ni-Co (ENC)
Location	IMIP	IMIP	IWIP	IMIP	IMIP	IMIP
Ownership	80%	80%	80%	80%	10%	27.5% (increasing to 55%)
Plant	RKEF (2 lines)	RKEF (2 lines)	RKEF (4 lines)	RKEF (4 lines)	HPAL	HPAL
Product capability	NPI/matte	NPI	NPI	NPI	MHP	MHP/sulphate/ cathode
Tax holiday granted	7 years (+ 2 @ 11%)	7 years (+ 2 @ 11%)	10 years (+ 2 @ 11%)	10 years (+ 2 @ 11%)	15 years (+ 2 @ 11%)	15 years (+ 2 @ 11%)
FY 2023 production (t)	20,539	19,550	49,058	39,112	2,868*	

FY 2023 production: 131,126 tonnes FY 2023 (NIC attributable): 103,364 tonnes^

Nickel Industries has established operating footprints in two of the world's largest nickel production centres



<sup>\*</sup> Represents 5 month's production of the Company's 10% attributable share of the Huayue Nickel Cobalt Project (HNC)

<sup>^</sup> Attributable production of 118kt on slide 6 is based on Q4 2023 production run rate

# **Safety and Sustainability**

### Ongoing commitment to safety and sustainability as evidenced by recent performance

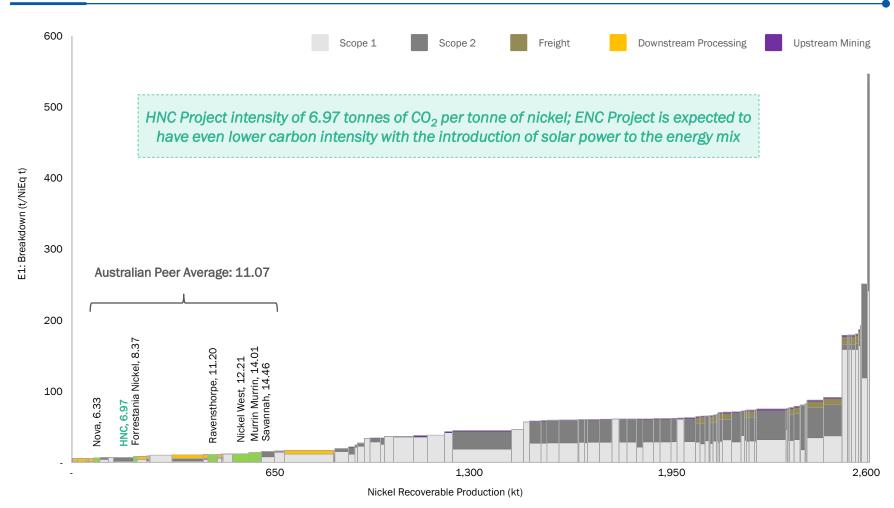
### Sustainability

- HNC is one of the lowest carbon emitting nickel processors globally
- ENC Project will strive to achieve a lower carbon intensity than HNC
- Hengjaya Mine awarded highest sustainability score for the nickel sector in Indonesia and fourth highest score for all mining companies as published in the Government PROPER book of 2023

### Safety

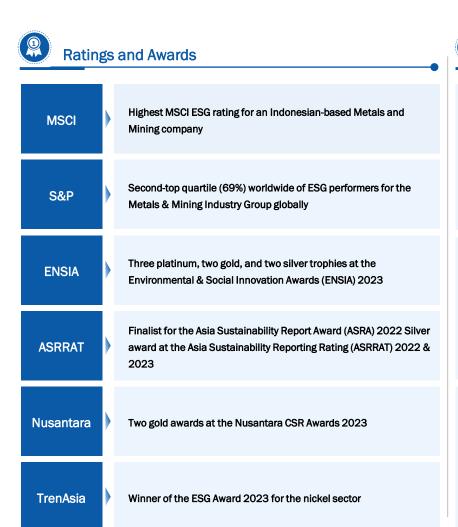
- Company-wide 12-month rolling lost time injury rate (LTIR) of 0.23 as at the end of March 2024 (0.65 is the world steel association average)
- recordable injury rate (TRIR) of 1.14 as at the end of March 2024 (3.66 is the world steel association average)





Source: Company Filings, Skarn Associates

# Nickel Industries playing a leadership role in responsible and sustainable mining in Indonesia







PROPER is an official environmental rating from the Indonesia Ministry of Environment and Forestry



Achieved the highest sustainability score in the nickel mining sector as published in the Indonesian Government's PROPER Book of 2023, and one of only 2 nickel mining companies in all of Indonesia to achieve a Green PROPER rating



Received the highest ranking in the nickel mining sector and striving to be the first nickel company to achieve Gold PROPER, the highest rating possible



### **Carbon Reduction Initiatives**



First mining company to successfully trial the use of EV haul trucks in Indonesia





Binding Operational Lease and Service Agreement (OLSA) to become the sole offtaker of Indonesia's largest solar project (200MWp + 20MWh BESS)



Invited to present at the COP28 United Nations Climate Change Conference in 2023 as a leader in responsible and sustainable mining in Indonesia (one of only 2 Indonesian mining companies invited to present)



Announced a targeted 50% reduction in carbon intensity by 2035 and net zero emissions by 2050 at COP28  $\,$ 

# Full year 2023 highlights





- Record Group EBITDA US\$403.3M
- Record Gross profit US\$338.0M
- Record Operating profit US\$280.7M
- Profit after tax US\$176.2M

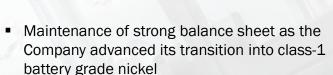


- Record Ni production 131,126 tonnes
- Record attributable Ni production 103,364 tonnes
- Record RKEF EBITDA from operations US\$337.2M





- Final dividend of A\$0.025 per share
- Full Year dividends of A\$0.045 per share
- Subsequent to year end, announcement of onmarket share buy-back of up to US\$100M over next 12 months



- US\$1.1B in new equity
- US\$400M senior unsecured notes issued
- established US\$400M of Indonesian bank funding lines
- Net debt US\$66.2M



- Record Mine production 13.4M wmt
- Record Mine EBITDA US\$87.9M
- Completion of Hengjaya Mine IMIP haul road
- Awarded second 'Green PROPER' rating



- Execution of Electric Vehicle Battery Supply Chain Strategic Framework Agreement
- Execution of binding agreement as off-taker to 200MWp solar project
- Completion of A\$943M placement to United Tractors for 19.99% of Company
- Positive FID taken for ENC HPAL Project
- Commitment to net zero carbon emissions by 2050

# **Strong EBITDA generated from operations in a challenging environment**



### Consistent production base and a demonstrated ability to operate profitability through the commodity cycle

Group nickel production		March Qtr	June Qtr	September Qtr	December Qtr	FY 2023
Nickel in NPI	tonnes	22,338	27,454	28,561	29,367	107,720
Nickel in matte	tonnes	5,060	5,104	5,291	5,083	20,538
Nickel in MHP	tonnes	-	-	1,045	1,823	2,868
Total nickel production	tonnes	27,398	32,558	34,897	36,273	131,126



<sup>^</sup> EBITDA from operations of US\$425M (as disclosed in the Quarterly reports) represents unaudited EBITDA from the RKEF, HPAL and mining operations, prior to corporate refinancing costs and FX gains/loss of \$21.8M. Audited Group EBITDA of US\$403.3M

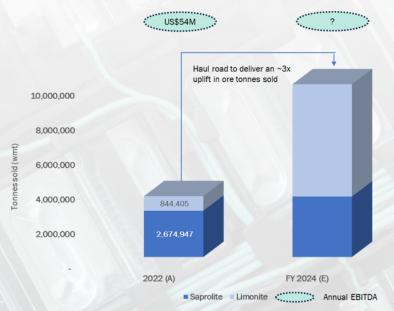
# **Another record year of production at Hengjaya Mine**



Production summary		Mar'23	Jun'23	Sep'23	Dec'23	2023
Saprolite mined	wmt	662,004	692,937	1,013,949	1,463,943	3,832,833
Limonite mined	wmt	1,822,636	2,029,624	2,616,041	3,100,155	9,568,456
Nickel ore mined	wmt	2,484,640	2,722,561	3,629,990	4,564,098	13,401,289
Overburden mined	BCM <sup>(1)</sup>	398,017	226,798	332,155	381,494	1,338,464
Strip ratio <sup>(2)</sup>	BCM/wmt	0.16	0.08	0.09	0.08	0.1



- Record annual production of 13,401,289 wmt
  - saprolite production: 3,832,833 wmt
  - limonite production: 9,568,456 wmt
- Ore sales set to rise materially in 2024 as production and trucking volumes continue to expand having completed the direct haul road from Hengjaya Mine to IMIP in August 2023
- Annual EBITDA of US\$87.9M (up 63.1% on FY 2022)
  - Q4'23 EBITDA of US\$42m
  - March'24 (single month) EBITDA of US\$15m
- Multiple sustainability awards received throughout the year in recognition of our ESG initiatives
- Achievement of 2<sup>nd</sup> 'Green PROPER' rating



Note: Figures reflect unaudited numbers from monthly operating entity financial reporting

- (1) BCM represents "bank cubic metres"
- (2) With limonite now being supplied to IMIP, the strip ratio is overburden mined divided by total nickel ore mined

# **Safety and Sustainability**

### Ongoing commitment to safety and sustainability as evidenced by recent performance

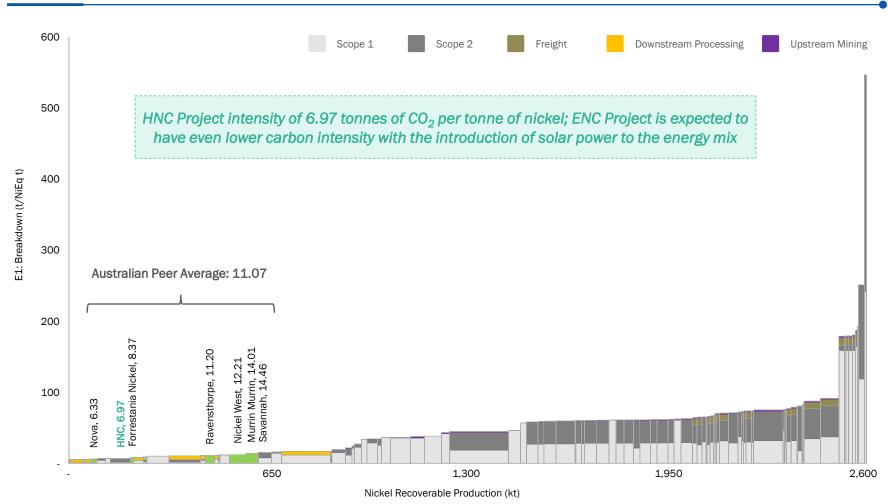
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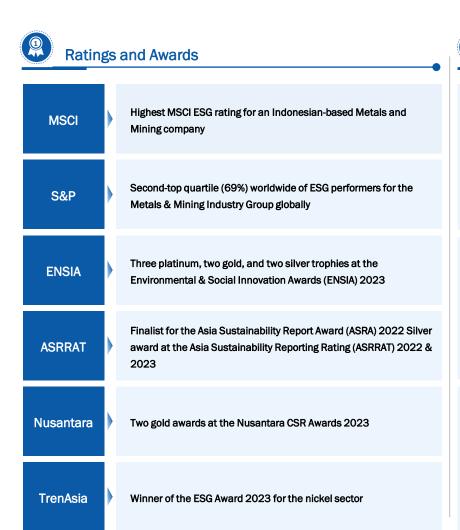
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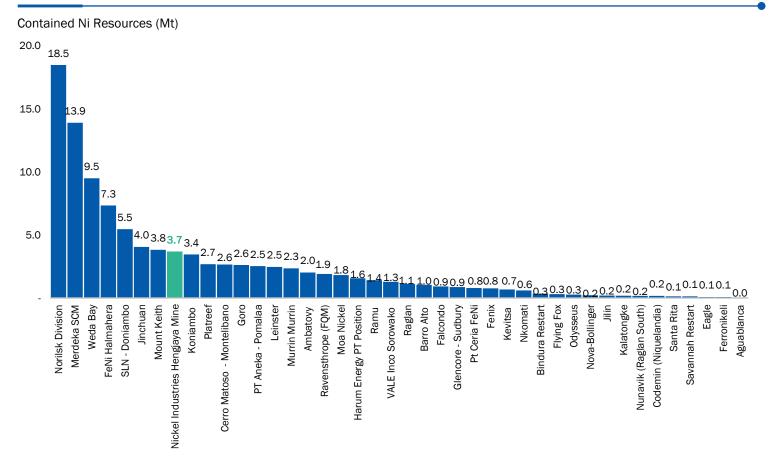


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# Hengjaya Mine is a world-class nickel resource

Ore supply for ENC is underpinned by the Hengjaya Mine, a world class nickel resource and a recognised ESG leader for responsible and sustainable mining

### **Global Contained Nickel Resources and Grade**



Hengjaya Mine - Aerial Site View





Source: Company Filings, Wood Mackenzie, Hengjaya Mine JORC Report (September 2022)



# HPAL: driving NIC's battery grade nickel growth

# **Excelsior Nickel Project (ENC) – the next generation of HPAL driving NIC's growth**



- Collaboration agreement with Shanghai Decent to build a "next generation" 72kt HPAL plant
  - the project will be capable of producing MHP, nickel sulphate and nickel cathode, differentiating from the current wave of Indonesian HPAL projects
- NIC to own 55% with Shanghai Decent to own 45%
  - NIC currently owns 27.5%
  - Shanghai Decent's interest may dilute upon the introduction of a strategic partner (Global offtake/investment process underway with strong interest from EV and battery manufacturers)
- Comprehensive "Construction Guarantee" secured
  - Acquisition cost capped at US\$2.3bn (100% basis) which includes tailings facility, sulfuric acid plant and other supporting infrastructure
  - Guarantee extends beyond EPC construction costs, and includes commissioning and ramp-up of the Project to nameplate capacity
  - "Timeframe guarantee" of not more than 2 years to construct
- 15-year corporate income tax holiday confirmed

### Positive Final Investment Decision taken in October 2023

- Project fully funded with NIC's 55% share (US\$1.265B) covered by:
  - existing cash on balance sheet
  - A\$943M (~US\$630M) placement to United Tractors
  - US\$400M loan facilities from BNI
  - strong cash flow from existing operations



ENC will be a replica of the HNC HPAL Project which is currently operating ~20% above nameplate capacity

# Significant Class 1 Nickel offtake from the only current western majority-owned HPAL project

There are only four producing HPAL projects in Indonesia, and three in construction (one of which is ENC). NIC is the only non-Indonesian / Chinese majority owner of HPAL projects. Several previously announced HPAL development projects have been halted or postponed

Project Name	Owners	Annual Capacity (tpa Ni)	Status	Available Offtake (tpa Ni)
Nickel Industries' Projects				
Huayue Nickel Cobalt (HNC)	NICKEL	60,000	Operating	6,000 - 8,500 <sup>(1)</sup> (NIC's 10% interest)
Excelsior Nickel Cobalt (ENC)	NICKEL INDUSTRIES TSINGSHAN	67,000	4Q 2025 - 1Q 2026	Up to 67,000
Other Indonesian HPAL Projects				
Halmahera Persada Lygend (HPL)	力勤资源 LYGEND RESOURCES HARITA	55,000	Operating	
QMB New Materials (PT QMB)	G∈I▼I 格林美 / TSINGSHAN	50,000	Operating	
PT Huafei	TSINGSHAN <b>华友钴业</b> HUAYOU COBALT  EVE 仅纬锂能	120,000	Operating	
Obi Nickel Cobalt (ONC)	力勤资源 Lygend resources	65,000	1Q 2024	
Blue Sparkling Energy (BSE)	TSINGSHAN HARUM O energy	67,000	2026	

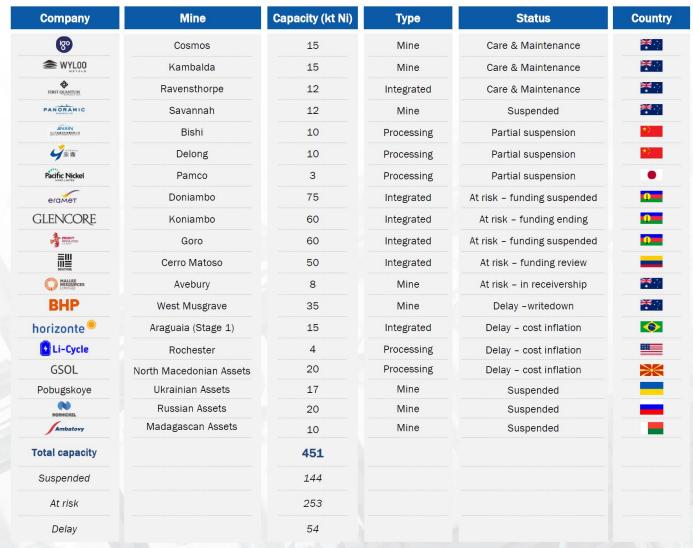
Source: Broker Research

<sup>1)</sup> HNC is currently operating at approximately 85,000tpa

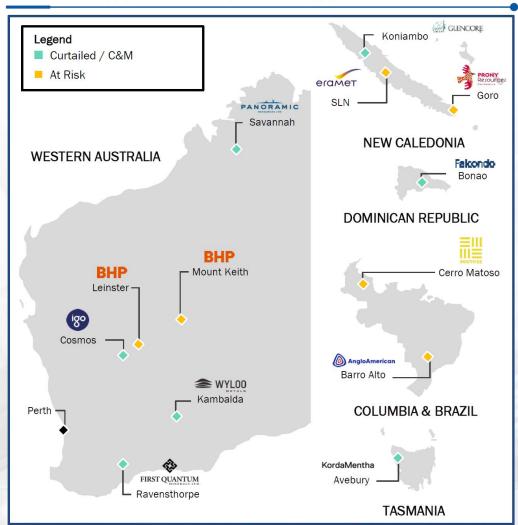
# **Significant Nickel Production Cuts Announced Outside of Indonesia**



144kt of mined nickel capacity has been suspended so far, including higher cost West Australian operations. Up to ~300ktpa volumes remaining at risk of delay or suspension. This represents ~15% of global refined nickel supply



### Announced Supply Curtailments / At Risk Supply



# **ENC construction update**





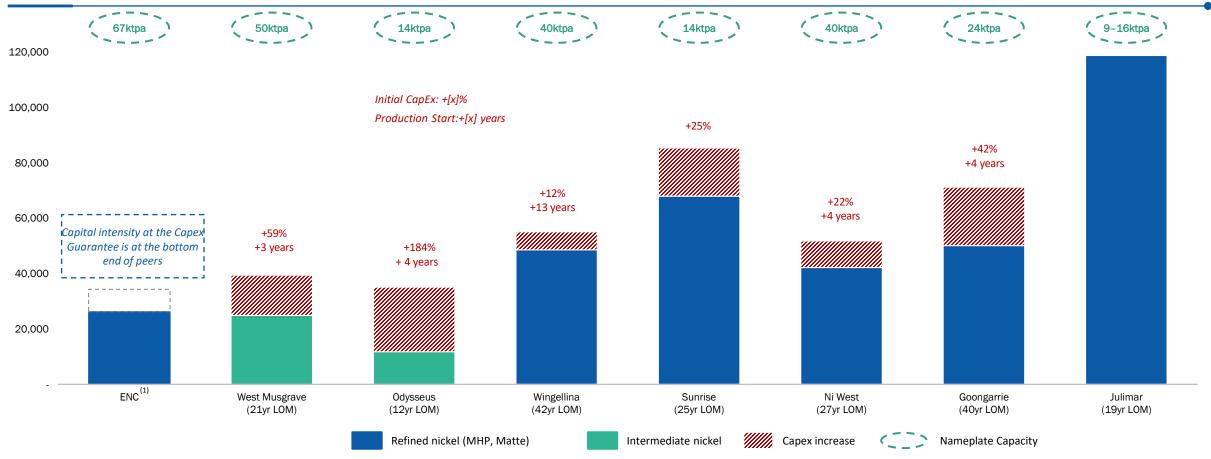


- On-site earthworks and footings work advancing
- Temporary staff accommodation and project administration offices now in place
- Key long lead items progressively being purchased and fabricated in China ahead of delivery to Morowali in the coming months

# The true value of a capex guarantee

No capex blowout risk given JV partner cost & timing guarantees, with additional upside from track record of sustainably operating materially above nameplate

### Capital Intensity Benchmarking – ENC vs. ASX-listed nickel development projects (US\$/t Ni)



Source: Company filings, Wood Mackenzie and Hatch Vendor Due Diligence Report

<sup>1)</sup> Project's capex intensity based on capex of US\$1.7bn (per Hatch VDD Report); dotted box reflects capex intensity at Capex Guarantee of US\$2.3bn

# NIC is a large, established top-10 global nickel producer

NIC is the world's largest Western listed diversified pure nickel producer with industry leading ESG credentials and first quartile operating costs

### Attributable Finished Nickel Production (kt, 2023) (1)



Source: AME Nickel Market Report 2024

<sup>1)</sup> Comparable production data reflects 2023 figures unless stated otherwise

<sup>2)</sup> NIC current production: 4Q'2023 production of 36,273 tonnes (34,450 RKEF + 1,823 HPAL), annualised. NIC's corresponding attributable production = ~117,532 tonnes

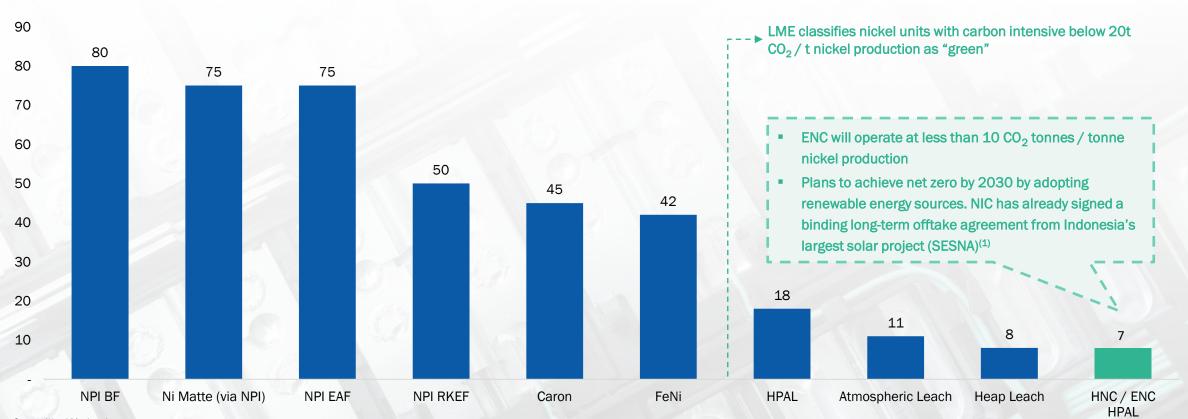
<sup>3)</sup> NIC future production = current production in (2) above, plus expected 55% share of 67,000 tonnes from the Project. NIC's corresponding attributable production = ~157,132 tonnes

# **HPAL** significantly reduces our carbon intensity



ENC will adopt the most advanced "third generation" HPAL process available, with energy consumption and carbon emissions at 25% and 20% respectively of similar pyrometallurgical products, and pathway to net zero supported by NIC's recent SESNA solar project (the largest solar project in Indonesia)<sup>(1)</sup>

### CO<sub>2</sub> e Emissions by Process (tCO<sub>2</sub>e / t Ni)



Source: Wood Mackenzie

<sup>1)</sup> Agreement with PT Sumber Energi Surya Nusantara (SESNA) announced in October 2023

# **Investment highlights**



Large, established top 10 global nickel producer – defined path to the Top-5

Low risk processing in integrated industrial parks partnering with the world's largest nickel and stainlesssteel producer



3 Diversified production by asset and product to support an expanding customer base

Significant commitment to ESG with strong, recognized environmental track record

Significant growth of low-cost nickel production, underpinned by capex guarantees, positioning Nickel Industries for strong expected future cash flows



# **FURTHER INFORMATION:**

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