

Yangibana Project – Begin the Future

Investor Presentation August 2020

All currency amounts are in A\$ unless stated otherwise.

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Exploration Targets

The terms "Target" or "Exploration Target" where used in this presentation should not be misunderstood or misconstrued as an estimate of a Mineral Resource as defined in this context. Exploration Targets are conceptual in nature, there has been insufficient exploration to define a Mineral Resource and it is uncertain further exploration will result in the determination of a Mineral Resource.

Competent Persons' Statement

The information in this announcement that relates to Mineral Resources is based on information compiled by David Princep and Lynn Widenbar. Both Mr Princep and Mr Widenbar are independent consultants to the Company and members of the Australasian Institute of Mining and Metallurgy (AusIMM). Mr Princep and Mr Widenbar have sufficient experience relevant to the styles of mineralisation and types of deposits which are covered in this announcement and to the activity which they are undertaking to qualify as a Competent Person as defined in the 2012 edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves' ("JORC Code"). Consent by Mr Widenbar to include statements in this announcement have been provided in previous announcements entitled "Increase in Measured and Indicated Resources at Yangibana Project" dated 28 November 2018. Consents to include statements in this announcement have been provided in previous announcements entitled "Increase in Measured and Indicated Resources at Yangibana Project" dated 28 November 2018. Consents to include statements in this announcement have been provided in previous announcements of the activity and Auer North Results" dated 22nd November 2017; "Yangibana Project Resources Now Exceed 20.5 Million Tonnes" dated 12th October 2017; "Another Major Increase In JORC Resources From Current Yangibana Drilling" dated 24th July 2017 and "Increase in Measured and Indicated Resources at Yangibana Project" dated 22nd November 2018

The information in this presentation that relates to the Fraser's and Bald Hill Ore Reserve is based on information reviewed or work undertaken by Mr Steve O'Grady, AusIMM, a Director of Intermin Engineering Consultants. Mr O'Grady has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the preparation of mining studies to qualify as a Competent Person as defined by the JORC Code 2012. Mr O'Grady consents to the inclusion in this announcement and of the matters based on his information in the form and context in which it appears.

The scientific and technical information in this presentation that relates to process metallurgy is based on information reviewed by Ms. Narelle Marriott (Principal Engineer – Beneficiation and Mr. Zhaobing (Robin) Zhang (Process Engineering Manager) of Hastings Technology Metals Limited. Both Ms. Marriott and Mr Zhang are members of the AusIMM. Each has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined by the JORC Code 2012. Ms. Marriott and Mr Zhang consent to the inclusion in this announcement of the matters based on their information and in the form and context in which it appears

US Disclosure

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Everyday Use of Permanent Magnets











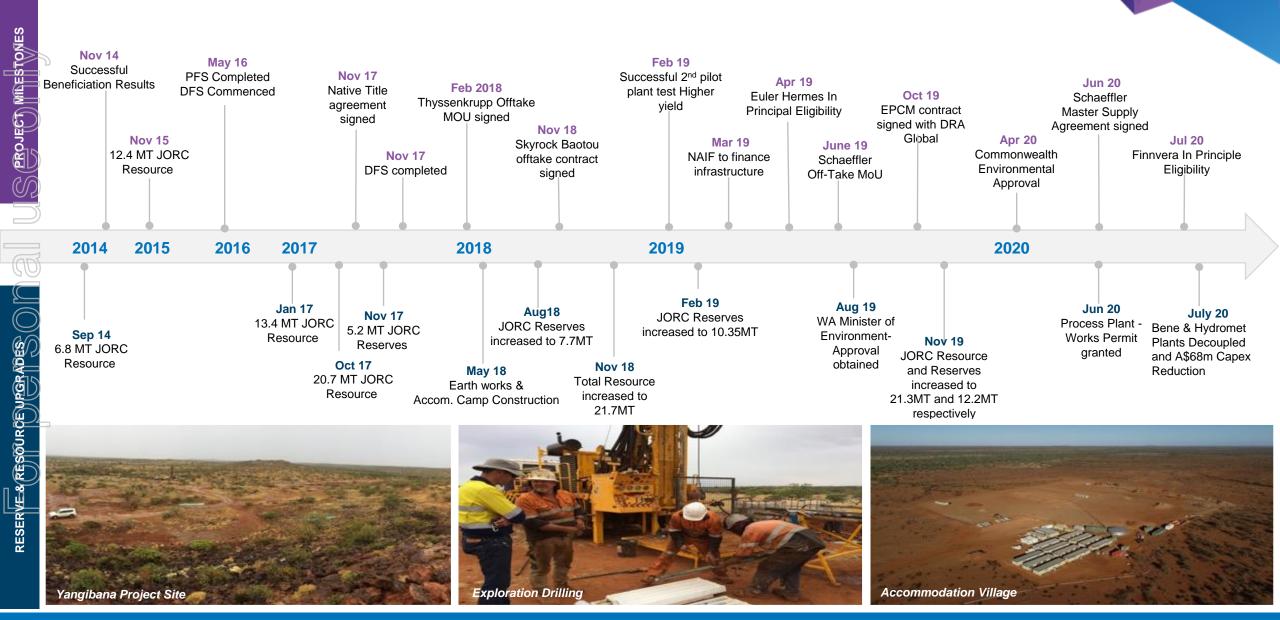








Yangibana Project – Milestones Achieved



HASTINGS

Investment Attraction

Why Hastings?

- Electric Vehicle (EV) growth = Demand for NdPr magnets
 - ✓ Every EV powertrain requires ~1.5 2.0kg of NdPr
 - ✓ CAGR of 9% for NdPr magnets 2020 2025
 - ✓ NdPr supply shortage expected >2022

Only major light Rare Earths mining company coming to production by 2023

Highest NdPr:TREO up to 48% = Unrivalled Basket Price

Tier 1 Yangibana Project the next Rare Earths Producer

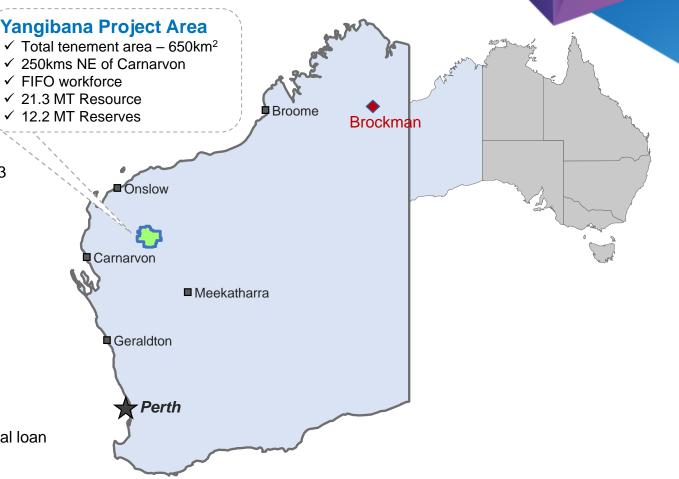
Highest basket price compared to all peers

- Capex (excl contingencies) A\$449m;
- Fast ramp up to construction 24 months to production

Low Risk Development

UFK and KFW > A\$250m loan for process plant / construction + commercial loan

- North Australia Infrastructure Fund (NAIF) to fund infrastructure A\$80m
- Finnvera Export Credit Guarantee A\$63m loan
- Offtakes Schaeffler, Thyssenkrupp, Sky Rock Baotou and other European and US customers
- Native Title Agreement signed, Commonwealth & WA Environmental Permit approvals granted



Capital Structure and Share Price

	Capital Structure	\$/Shares
2	Cash Balance (at 30 June 2020)	A\$9.5M
	Shares in Issue	1,034.4M
)	Share Price (29 July 2020)	A\$0.135
)	Market Capitalisation (29 July 2020)	A\$140
)	Performance Rights	20.2M
1	Options (Ex price 25c - HASO April 2022 Expiry)	120.1M

Major Shareholders	%
Foon Keong (Charles) Lew	11.60%
Mun Kee Chang	8.70%

Register Breakdown	
Shareholders	>2,040
% of Register Institutions/HNW Investors	~70%

Share Price Performance



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Board Of Directors	
Charles Lew	Executive Chairman
Jean Claude Steinmetz	Non Executive Director
Mal Randall	Non Executive Director
Neil Hackett	Non Executive Director
Guy Robertson	Finance Director

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Meetings have been held with all 3 Shires to date, covering the new access road north

- Conditional approval already received from Gascoyne and Carnarvon Shires
- Ashburton Shire President indicated approval should be forthcoming.

Next Steps:

- Complete geotechnical assessment on the road
- Analysis of the data will form backbone of tripartite road user agreement.



STINGS

Exploration – 2020 Drilling Program

Commenced 17 June 2020 with Grade Control Drilling

As of 30 June completed 3,454m of 5,000m GC program

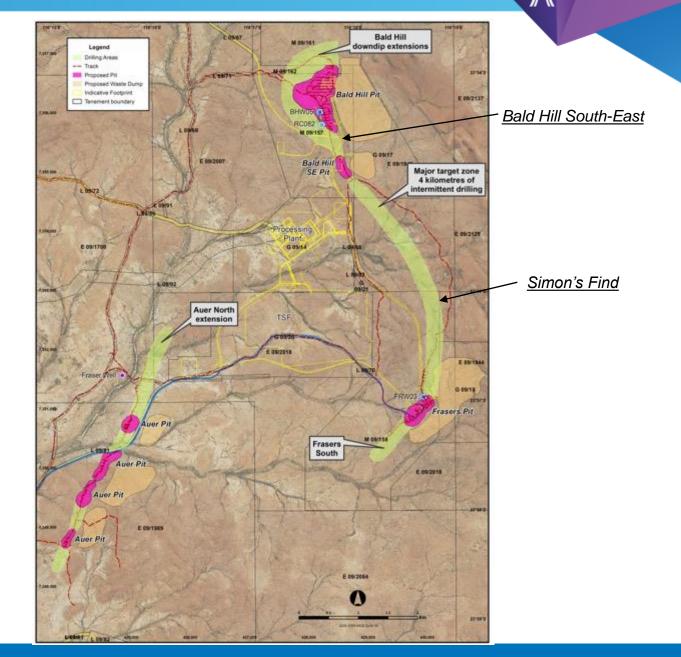
- Further 20,000m of Resource Definition Drilling commenced July 2020
- As of 31 July 7,201m completed
- Assays have been submitted to laboratory; results expected mid-August
- Bald Hill South-East
- Mineralisation thin and narrow in places
- Geologically structurally complex

<u>Simon's Find</u>

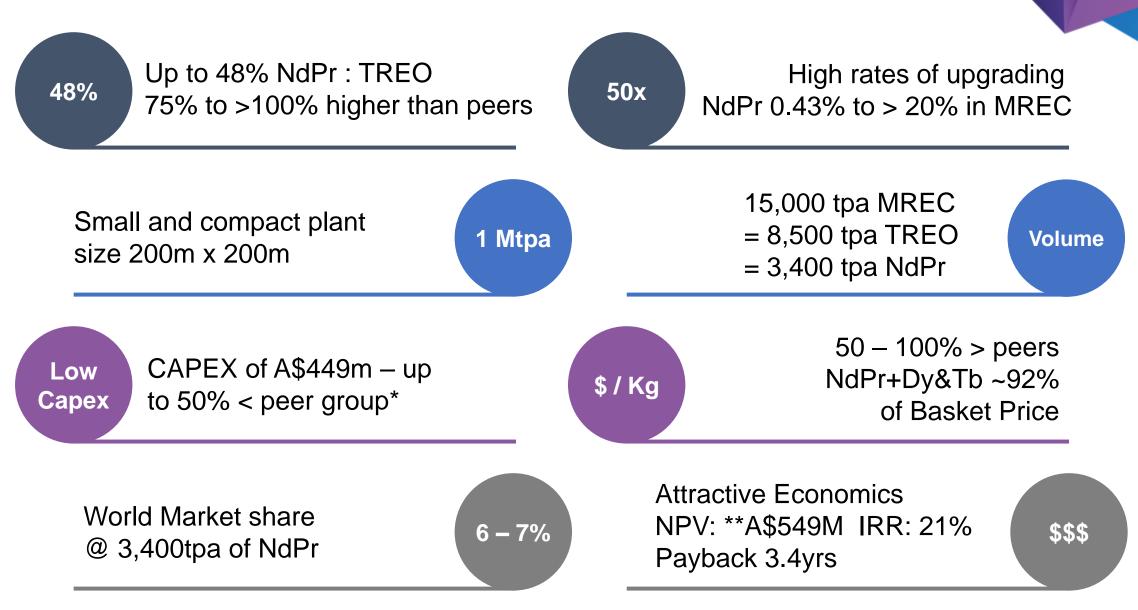
Mineralisation good, thick intercepts in places, extensions to existing resources probable.

Frasers South

• Geological logging confirms extensions, awaiting assays



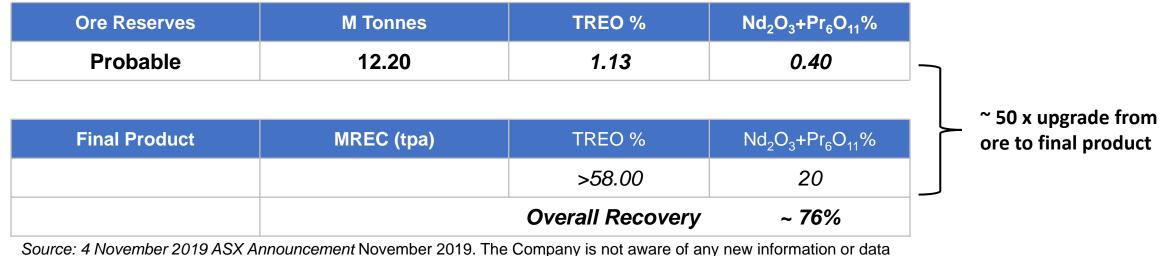
World Leading NdPr : TREO



*excluding Peak Resources in Tanzania. ** NPV/IRR based on previous CAPEX/OPEX

Dersonal

Mineral Resources	M Tonnes	TREO %	Nd ₂ O ₃ +Pr ₆ O ₁₁ %
Measured	4.15	1.15	0.43
Indicated	10.92	1.13	0.38
Inferred	6.18	1.09	0.35
TOTAL	21.25	1.12	0.38



Source: 4 November 2019 ASX Announcement November 2019. The Company is not aware of any new information or data that materially affects the information included in this announcement and all material assumptions and technical parameters that underpin the Mineral Resource estimates and Ore Reserves in this announcement continues to apply and has not materially changed.

Hastings Technology Metals Limited (HAS.ASX)

Yangibana Project Summary

Key Facts	
Capital cost (excl Contingencies)	A\$449m
Mining Production	1.0 Mtpa
Mine Life	13 years
Process Recovery	76%
Annual (MREC) production	~15,000 tpa
Annual (TREO) production	~8,500 tpa
Average (NdPr) production*	3,400 tpa
Commissioning Date	2023





*First 5 years of Production.

Phase One Enabling Infrastructure

- > 340 camp rooms on site
- Airstrip design completion
- Continuing design of the site access roads
- Progressing FEED design work



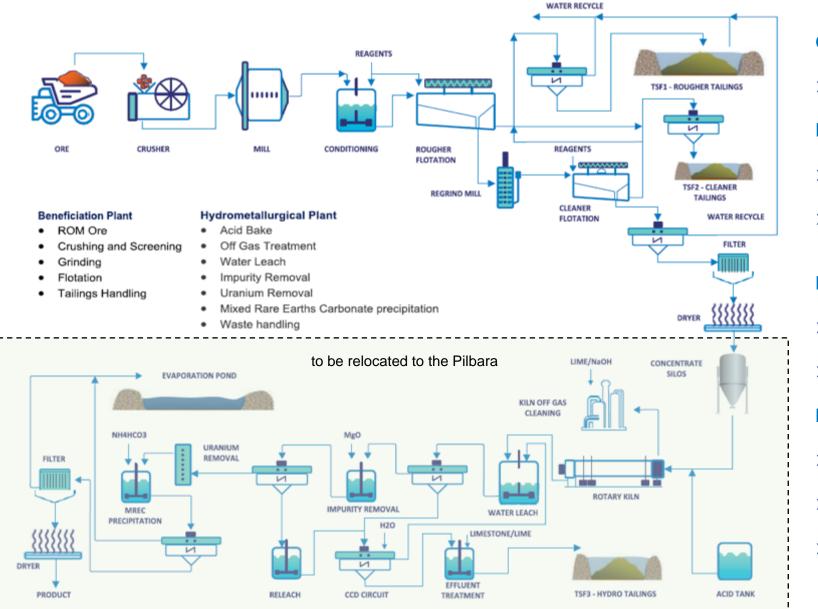
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- Ordering of long lead equipment
- Offsite fabrication of plant
- Commonwealth & WA Environmental Permits

HASTINGS

Final Process Flowsheet





Ore Sorting

Included in new CAPEX

Beneficiation

> Tier 1 Metso Outotec equipment

HASTINGS

2nd pilot test achieved 80% TREO recovery vs 70% at DFS

Hydromet

- Relocated to the Pilbara Region
- Rotary kiln from FLSchmidth

Mixed Rare Earth Carbonate (MREC)

- Annual production of 15Ktpa
- Unrivalled REO basket price
- Separation into TREO oxides by third party

Yangibana Advantage – Highest NdPr : TREO ratio



One of the Highest NdPr:TREO rare earth deposits in the world

RE Oxide/TREO	Unit	N //	С	hina	Outsic	le of China		
	Unit	HASTINGS Technology Metals Limited	Baotou	Sichuan	Mt Weld	Mountain Pass		
Lanthanum	%	9.99	25.94	36.50	25.16	33.22		
Gerium	%	39.59	50.69	47.90	46.36	49.10		
Praseodymium	%	8.01	5.15	4.10	5.38	4.30	×	41% NdPr:TRE
Neodymium	%	33.80	15.90	10.00	18.79	12.00	✓	50-100% higher
Samarium	%	3.88	1.21	0.70	2.27	0.80		than peers
Europium	%	0.84	0.22	0.08	0.47	0.12		
Gadolinium	%	1.80	0.39	0.23	0.85	0.17		
Terbium	%	0.15	0.05	0.04	0.06	0.04	×	
Dysprosium	%	0.50	0.11	0.06	0.16	0.07		accounts for 92% of revenue
Yttrium	%	1.14	0.25	0.31	0.45	0.10		02,000,000,000
Other	%	0.29	0.10	0.08	0.05	0.09		
Basket Price US\$/k	g	20.45	10.91	7.75	12.56	8.69		Unrivalled Basket Price

Source: Computation based on Asian Metal market price of RE oxides as at 22 Jul 2020



China F.o.B. Export prices 2	2-7-2020 (USD/kg)	& 90-day change	
Lanthanum oxide	La2O3	\$1.60	- 3.8%
Cerium oxide	CeO2	\$1.65	- 2.4%
Praseodymium oxide	Pr6O11	\$40.80	- 0.4%
Neodymium oxide	Nd2O3	\$43.80	+ 6.8%
Dysprosium oxide	Dy2O3	\$260.50	- 1.9%
Terbium oxide	Tb4O7	\$652.50	+ 8.6%
Samarium oxide	Sm2O3	\$1.72	- 1.8%
Europium oxide	Eu2O3	\$29.50	+ 0.7%
Erbium oxide	Er2O3	\$22.00	+ 2.2%
Holmium oxide	Ho2O3	\$58.20	+ 5.1%
Lutetium oxide	Lu2O3	\$601.44	- 2.8%
Yttrium oxide	Y2O3	\$2.85	- 0.8%

Source: ASIAN METAL, 22 July 2020



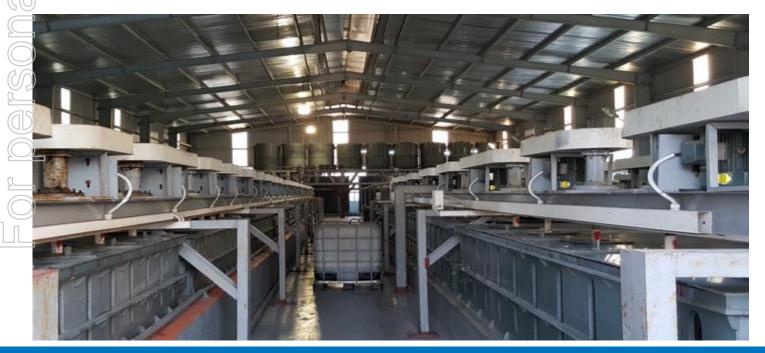
Pr Oxide Prices, FOB China USD/mt



High NdPr content allows for lower separation cost vs China

>_								
		MREC (t)	TREO%	NdPr:TREO	% of NdPr per tonne	REO (t)	NdPr (t)	Seperation Cost US\$M
<u></u>	China	27,750	59%	20%	12%	16,373	3,275	\$83
)	China	37,000	59%	15%	9%	21,830	3,275	\$111
)) २	China	55,500	59%	10%	6%	32,745	3,275	\$167
)	Hastings	15,000	59%	37%	22%	8,850	3,275	\$45

Seperation Cost assumes fixed US\$3/kg seperation charge



Hastings' MREC

 almost 2 times cheaper to separate than (20% NdPr:TREO) Chinese reference MREC

or

- almost 4 times cheaper to separate than actual (10% NdPr:TREO) Chinese actual MREC
- Hastings' MREC contains 59% TREO or 22% NdPr in every tonne of MREC
- 37% NdPr:TREO average from 5 different open pits based on 13 years mine life.
- > 40% NdPr:TREO first 8 years from Bald Hill and Frasers pits

Hastings Technology Metals Limited (HAS.ASX)

Yangibana Project Timeline

Hastings remains on track to achieve key milestones for the Yangibana Project

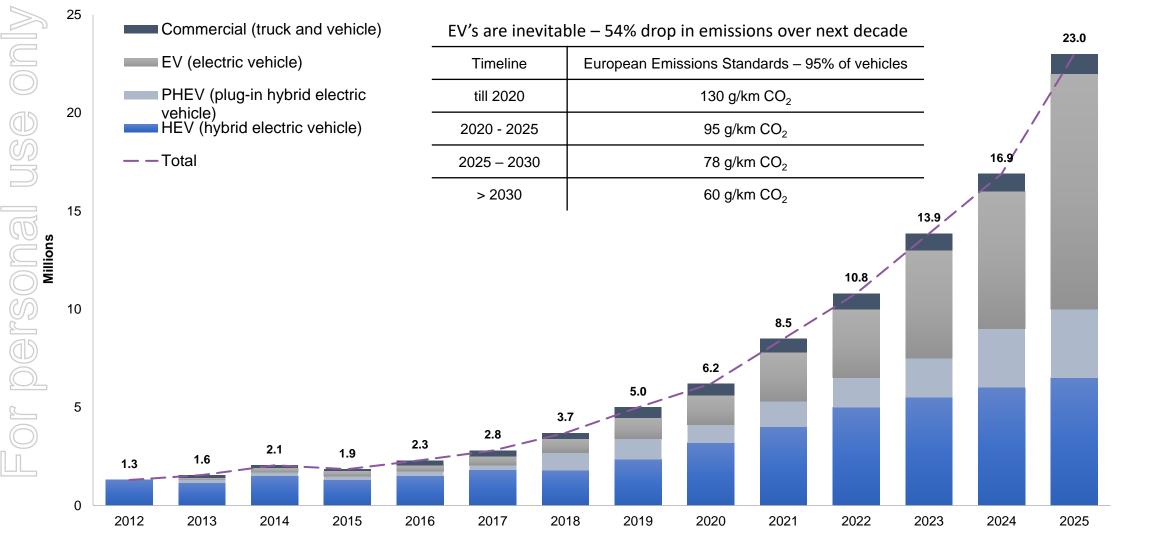
Construction targeted to commence immediately post debt finance conclusion

Hastings' Yangibana Project is well positioned to be the next ASX-listed Rare Earths producer

	2019		20)20			20	21			2022	
9 ⊐ 	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
Milestones												
Project Finance												
Approvals												
Detailed Enginee	ering Design					1			1	1		
Procurement & C	Contracts											
Construction												

Electric Vehicles – Catalyst for NdPr Demand





Source: Roskill & UBS Estimates

Electric-vehicle (EV) penetration rate, % 04 2019 01 2020 60 20Finland Portugal France Norway Sweden German China Hong Kong Netherlands Switzerland Iceland Denmark South Korea US EV sales, Q1 2020, thousand units Norway Sweder Finland Portugal France Germany China Italy Hong Kong Netherlands Switzerland South Korea US Iceland Denmark

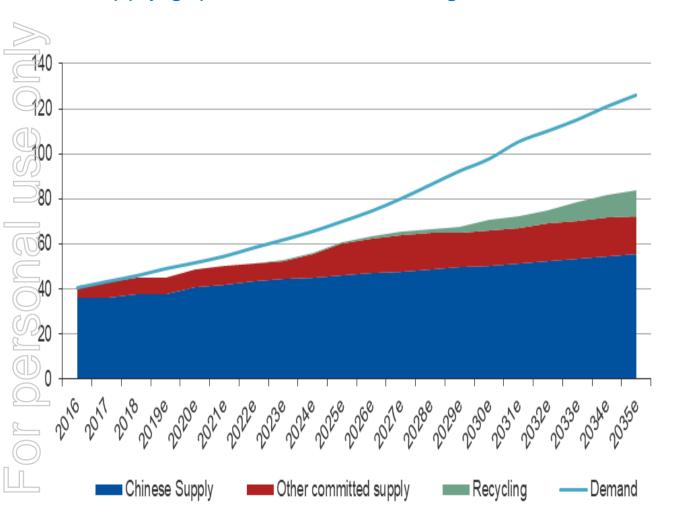
Nine of the top ten markets for electric-vehicle penetration rate were European.

- Europe saw significant EV growth of 44% in 2019, highest since 2016
- Automakers are relying on EVs to achieve Europe's 2020/21 carbon-dioxide emissions limits of 95 gm of CO2 per km for passenger cars
- EV markets in Europe will increase substantially due to customer incentives in places like Germany, France and Sweden
- Automakers launched 143 new EVs 105 BEV and 38 PHEV in 2019. By 2022/23 ~450 new EV models expected
- Germany with an expected volume of 856,000 EVs, could overtake Chinese players in 2020.
- China due to the pandemic, the government extended its EV subsidies to end 2022 including RMB 10 billion (US\$1.4 billion) in expanding the charging network.
- In first-quarter 2020, due to Covid 19, EV sales dropped 57 percent from 4Q 2019.

Source: Ev-volume.com; Light Vehicle Sales Forecast, May 2020, IHS Markit

Global NdPr Demand & Supply

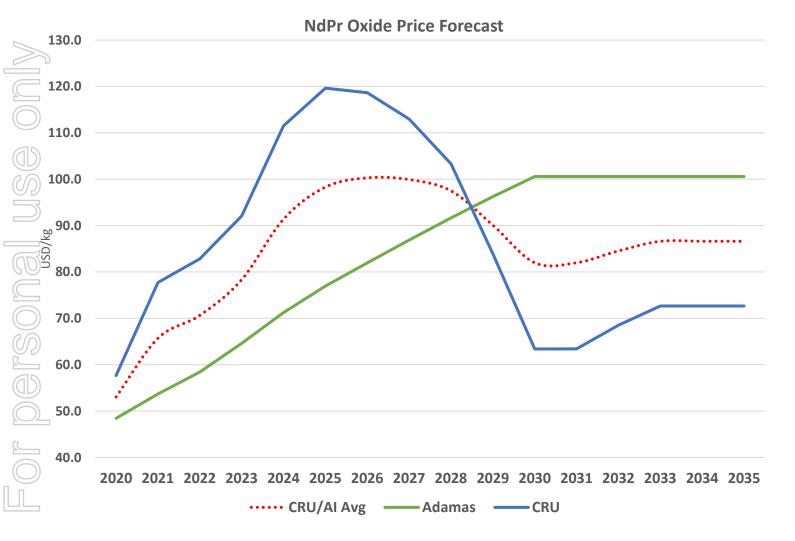




Source: CRU Market Outlook Report to KFW-Ipex Bank

- China consumption 2017 46KT of NdPr oxide 2022 - forecast 60KT.
- > China net importer in 2018 41KT of REO
- China supply tightening due to stricter environmental enforcement and Made in China 2025 policy
- EV battery for passenger cars worldwide grew by 17% to 117 GW hours in 2019, enough to power 2.4 million standard BEVs. By 2025 projected to increase to ~1,000 GW hours.
- CATL (China) in 2019 has 28% of global battery market. Plant capacity grew by 39 percent. Is adding new factory in Germany.
- US SK Innovation investing 2nd Gigafactory battery plant in Georgia; a total of \$2.5bn; and LG Chem + General Motors JV invested \$2.3bn in Ohia state
- Hastings : next major RE producer by 2023 adding ~ 7% of NdPr supply to world market
- Adamas Intelligence: Global NdPr oxides market is US\$3.9bn in 2018; projected to be US\$12.7bn in 2030

NdPr Price Forecast 2020 – 2035



Source: Adamas Intelligence 2018 and CRU Market Analysis Report commissioned by KFW * Adroit Market Research July 15, 2019

- *CAGR of 8.5% for NdPr magnets from 2019 – 2025 is the key factor pushing NdPr price up
- Automotive OEMs to launch multiple new EV models from 2021 onwards
- No major rare earth mine coming into production in the near term that complies with Equator Principles
- Sustainable mining requires procurement managers to source NdPr from high-scoring ESG locations

Offtake Customers



- German T1 Schaeffler : Master Agreement signed
 - 10 years supply of significant volume
 - Long term price and discount structure, payment terms, floor price, delivery timeline, etc

German T1 (MOU) – 1KT pa. for 5 + 5 years

Sky Rock Baotou – 2.5KT p.a. for 5 years (contract signed)

Thyssenkrupp (MOU) – marketing agent

US, Japanese & Chinese - ongoing discussions for offtake or spot sales for MREC

Reference Price: Asian Metals oxides average 90 days FOB China















Concessionary financing by Government agencies from Germany, Finland and Australia for Senior Debt of 7 - 10 years tenure

Loan to be underpinned by long term offtake contracts with Germans (Schaeffler), Chinese and customers from Japan and US

Concessionary Senior Debt

~ A\$200M (USD140M) UFK loan for mining/process plant construction

- Euler Hermes Aktiengesellschaft (the state agency responsible for administering the UFK scheme) confirmed eligibility for the UFK scheme
- ~ A\$80M NAIF (Infrastructure related)
 - North Australia Infrastructure Facility opportunity for concessionary terms where public benefits exist
- ~ A\$63m Finnvera Export Credit Financing
 - Process plant equipment supplied by Outotec of Finland qualifies for ECA support

Commercial terms

- US\$35M (~A\$50M) KFW commercial loan
 - KfW-IPEX Bank an additional loan of USD\$35M (~A\$50M) on commercial terms

KFW IPEX-Bank







Global Tier 1 suppliers of mining equipment and services

Capital Expenditure	Previous (A\$M)	Update (A\$M)	Changes (A\$M)	
Mine	13	10	-3	ΤΔΡΟ
Process plant	167	181	14	
Tailings facility	18	18	0	
Infrastructure	77	69	-8	FL <mark>Smidth</mark>
Services	130	50	-80	
Other items	8	9	1	Outotec
Indirects	104	112	8	FLEETWOOD
Contingency	76	67	-9	AUSTRALIA
Total Capex	593	516	-77	A DRA
Total (without Contingency)	517	449	-68	

Key Contracts Awarded

- Design and Supply of Rotary Kiln Off Gas Scrubbing Plant awarded to Total Air Pollution Control Pty Ltd (TAPC)
- Gas Scrubbing Plant award allows significant additional engineering progress to be made to the Rotary Kiln package
- Flotation plant and Supply of SAG Mill
 - Purchase, transport and installation of the accommodation village
 - EPCM contract for overall mine and process plant construction

Source: ASX Announcement 4 November 2019 & 29 July 2020

Indicative Debt/Equity Capital Structure

\geq	D	A\$M	A\$M	%
	Project Capex – Mine & Process Plant	449		
\bigcirc	Contingency @ 15% (EH requirement) **	67		
	Total Project Capex***		516	80%
5	Sunk cost up to DFS		33	5%
	Working capital (i.e. Short Term Facilities)		27	4%
(D)	Lenders fees, DSRA, IDC, EH cover premium, etc**		66	11%
	Total funding for the Project		642	100%
$\tilde{\mathbb{N}}$	Equity/cash raised since 2014 - capitalised		112	17%
	UFK & KFW senior debt facility		250	39%
Õ	NAIF / Finnvera senior debt facility		135	21%
	Balance of equity to raise*		145	23%
	Total sources of fund		642	100%

* Assuming A\$27M working capital funded by ST Facilities, balance equity required is ~A\$120M

** Lenders requirements that these be funded entirely out of equity raised

*** New capex updated - 29 July 2020



Board of Directors







Charles Lew

Executive Chairman

Corporate Finance Director HG Asia Securities 1990 -1997

MD of ABN Amro Investment Bank Singapore 1997 - 2000

- Independent Director of RHB Banking Group 2004 - 2016
- 30+ years experience in investment banking in London (HSBC & Robert Fleming) and in Singapore
- Private investor and entrepreneur in F&B, real estate, financial services etc.



Jean Claude Steinmetz

Non Executive Director

- Previously Chief Operating
 Officer for Lynas Corporation
- 25+ years Involved in the chemical industry with Rhodia and General Electric
- Chairman of the Auto Plastic and Innovative Materials Committee of Sino-EU Chemical Manufacturers Association



Mal Randall

Non Executive Director

- Bachelor of Applied Chemistry & Fellow AICD.
- 45+ years extensive experience in corporate, management and marketing in the resources sector including 25+ years with the Rio Tinto group of companies.
- Experience as Chairman or NED level in a diverse range of commodities including Lithium, Base Metals, Potash, Iron Ore, Uranium and Mineral Sands



Neil Hackett

Non Executive Director

- Corporate Finance and Regulatory Experience ASIC 1990-1999
- 10 years investment and funds management experience
- 15+ years ASX Director, Company Secretary and Senior Executive mining and industrial experience
- Independent Corporate Governance Advisor and AICD Facilitator



Guy Robertson

Finance Director

- 30+ years CFO experience
- CFO for various ASX listed junior mining companies
- Senior finance executive in Jardine Matheson Group in Hong Kong and Australia including Jardine Lloyd Thompson, Colliers Jardine, and Franklins Limited

Experienced Senior Management Team







Andrew Reid Chief Operating Officer

- 25 years of expertise in mine management, geology and mining engineering concentrating on open pit and narrow vein mining
- Developed and managed mining projects in West Africa and Finland
- Previously COO of Finders Resources, GM of Kevitsa Mine, First Quantum Minerals, etc



Pit Wah Chung Chief Financial Officer

- 20 years experience in financial reporting and tax
- Regional Financial Controller of Lifestyle Investment Group
- CFO of Muddy Murphy Holdings and Breadtalk Group Ltd
- Chartered Accountant of Singapore & fellow member of The Association of Chartered Certified Accountants (ACCA)



Nick Holthouse

General Manager – Engineering & Operation Readiness

- 30+ years experience in surface & underground mining operations, engineering & surveying in commodities – gold uranium, coal and base metals
- Managed, Commissioned / Operated mines & process plants in remote regions
- Merdeka Mining, Finders Resources, CSA Global



Valerie Quay Legal Counsel

- Barrister at Law, Middle Temple UK and Herbert Smith LLP London
- Focused experience in corporate commercial law ; 3P sector partnership
- Management & Strategy consulting at McKinsey & Co, London
- Deputy Director Strategy & Corporate Governance, National Philanthropic Centre, Singapore



Robin Zhang

Process Engineering Manager

- 20+ years experience in R&D, project engineering, plant commissioning & operations
- 8 years Lynas Senior Technical Services & Project Development Manager
- 11 years at Gansu Rare Earth Group China -Deputy Director Technical Centre

Independent Consultants and Advisors





Competent Persons and Qualifying Persons Statement

The information in this announcement that relates to Exploration Results in relation to the Yangibana Project is based on information compiled by Mr. Benjamin Nicolson BSc (Hons), a Competent Person, who is a Member of the Australian Institute of Geoscientists. Mr. Nicolson is a fulltime employee of the company and has sufficient experience that is relevant to the activity being undertaken to qualify as a Competent Person as defined in the 2012 edition of the Australasian Code for Reporting of Exploration Results, Minerals Resources and Ore Reserves. The Qualified Person has verified the data disclosed in this release, including sampling, analytical and test data underlying the information contained in this release. Mr. Nicolson consents to the inclusion in the announcement of the matters based on his information in the form and context in which it appears

In compliance with the JORC Code (2012), Hasting's cautions investors and notes that regional geology drilling and comments pertained in this presentation should not be considered a proxy or substitute for laboratory analyses which are still pending.

This document authorised for release by the Board.

Thank You / Questions?



