

Carina Module

Revitalizing the Supply of Heavy Rare Earths

January 2024



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Market and Industry Data

Market and industry data and forecasts contained in this presentation have been obtained from third party sources, industry publications and reports, websites and other publicly available information. The Company believes that the market and economic data presented throughout this presentation is accurate but the Company cannot offer any assurance as to the accuracy or completeness of the market and economic data presented throughout this presentation are not guaranteed and the Company does not make any representation as to the accuracy of such data. Actual outcomes may vary materially from those forecast in such reports or publications, and the prospect for material variation can be expected to increase as the length of the forecast period increases. Although the Company believes it to be reliable, the Company has not independently verified any of the data from third party sources referred to in this presentation, or analyzed or verified the underlying market, economic and other assumptions relied upon by such sources. Market and industry data are subject to variations and cannot be verified due to limits on the availability and reliability of data inputs, the voluntary nature of the data gathering process and other limitations and uncertainties inherent in any statistical survey.

Scientific and Technical Information

This presentation also contains references to estimates of Mineral Resources. The estimation of mineral resources is inherently uncertain and involves subjective judgments about many relevant factors. Mineral resources that are not mineral reserves do not have demonstrated economic viability. The accuracy of any such estimates is a function of the quantity and quality of available data, and of the assumptions made and judgments used in engineering and geological interpretation (including estimated future production from the Company's projects, the anticipated tonnages and grades that will be mined and the estimated level of recovery that will be realized), which may prove to be unreliable and depend, to a certain extent, upon the analysis of drilling results and statistical inferences that ultimately may prove to be inaccurate. Mineral resource estimates may have to be re estimated based on: (i) fluctuations in prices of rare earth elements; (ii) results of drilling; (iii) metallurgical testing and other studies; (v) proposed mining operations; (v) evaluation of mine plans subsequent to the date of any estimates and (vi) the possible failure to receive required permits, approvals and licenses.

Scientific and technical information (including financial forecasts and valuation calculations) relating to the Penco Module contained in this presentation has been derived from, and in some instances extracted from a technical report prepared in accordance with National Instrument "43-101 Standards" of Disclosure for Mineral Projects ("NI 43-101") entitled "Preliminary Economic Assessment – Carina Rare Earth Element Project – Nova Roma, Goiás, Brazil" with an effective date of November 3, 2023 ("Technical Report" or Aclara PEA") prepared by GE21 Consultoria Mineral and authored by Stuart J. Saich, Branca Horta de Almeida Abrantes, Porfirio Cabaleiro Rodriguez and Rooniel Hirose, each of whom and is a "qualified person" and " within the meanings of NI 43-101.

Portions of the scientific and technical information relating to the Carina Module contained in this presentation are based on assumptions, qualifications, procedures and other information which are not fully described herein but are set out in the Technical Report. Reference should be made to the full text of the Technical Report which has been filed with the Canadian securities' regulatory authorities in each of the provinces and territories of Canada (other than Québec) pursuant to NI 43-101 and is available for review on the Company's SEDAR+ profile at www.sedarplus.ca. The mineral resource estimates referred to in this presentation have been calculated using the Canadian Institute of Mining, Metallurgy and Petroleum ("CIM") "Standards on Mineral Resources and Reserves, Definitions and adopted by CIM."

Barry Murphy, the Chief Operating Officer of the Company, is a "qualified person" within the meaning of NI 43-101 and has reviewed and approved of the scientific and technical disclosure in this presentation. Mr. Murphy is not independent of the Company within the meaning of NI 43-101.

Aclara at a Glance

- 1 Multi-modular Heavy Rare Earth Company
 - ✓ 2 top class ionic clay deposits
 - ✓ Geopolitically diversified in Chile and Brazil
- 2 Significant production potential of critical elements Dy & Tb
 - ✓ Carina represents 13.7% and Penco 3.3% of Chinese official production*
- 3 Sustainable technology already demonstrated
 - ✓ Fully owned pilot plant offers a technical advantage
- 4 Solid financial position
 - ✓ Raised US\$100 million on the TSX in December 2021
 - ✓ US\$ 33M in cash as of December 2023, no debt
 - ✓ Backed by Hochschild Group
 - ✓ Market cap. of \$64m



ACLARA AIMS TO BE THE MARKET LEADER IN SUSTAINABLE HEAVY RARE EARTHS

aclara

Carina Module PEA: Economic Details



Life of Mine

17 years
With high potential for expansion

Post-tax NPV_{8%}

US\$1.2B (29% IRR) Effective tax rate of 36%

Initial Capex

US\$582M Includes 30% contingency

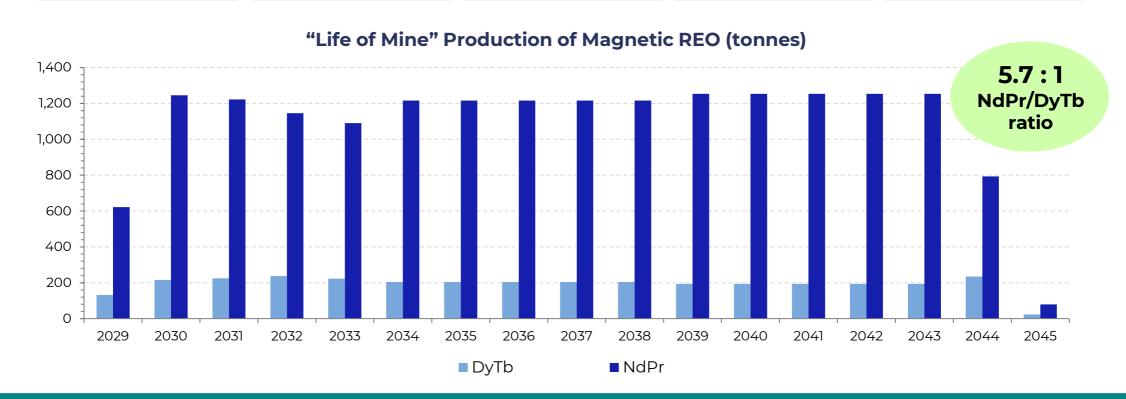
Avg. Cost

13.1 US\$/tNet Smelter Return at 49.1 US\$/t

Avg. Annual EBITDA*

US\$340M

~71% annual EBITDA margin



ROBUST ECONOMICS UNDERPINNED BY LOW PRODUCTION COSTS

^{*} Annual average does not consider the first year (ramp-up) and the last year (ramp-down)

Estimated 2023 World DyTb Supply vs. 2033 Demand



2023 Est	DyTb		
Chinese	1,519		
5	China – hard rock	399	
	China – Ionic Clays*	1,120	
In-situ L	1,392		
	Myanmar / Malaysia/ Laos/ Thailand and other ionic clays**	1,207	
	Serra Verde***	185	
China C	2,911		
	MP Materials	47	
ROW	Lynas Rare Earths	47	
	Others**	13	
Rest of t	107		
2033 Est	7,965		
Addition	4,947		

Carina's expected Avg.
Annual Production

DyTb

208t

Carina's DyTb
expected production
would represent
13.7% of Chinese
Official Production

SIGNIFICANT DyTb SUPPLY SHORTAGE EXPECTED

^{*}Source: The Chinese Ministry of Industry and Information Technology. Elements approximation based on mines grades

^{**} Source: Argus Media based on customs reports as of November 2023. (REO content of ionic clays carbonates of 40%). Others from USGS 2023 Rare Earths report (customs reports)

^{***} Source: Company presentation (08,2021): Serra Verde Geology, expected production slide. Press release (January 11, 2023) Serra Verde, a Denham Capital portfolio company, announces investment by Vision Blue Resources and The Energy & Minerals Group as well as appointment of new leadership team.

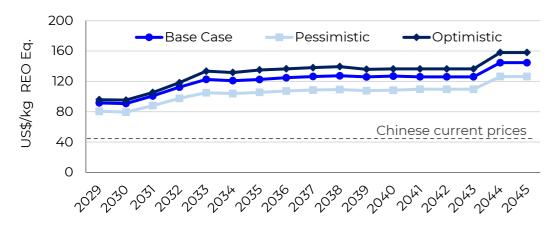


Prices and Sensitivities

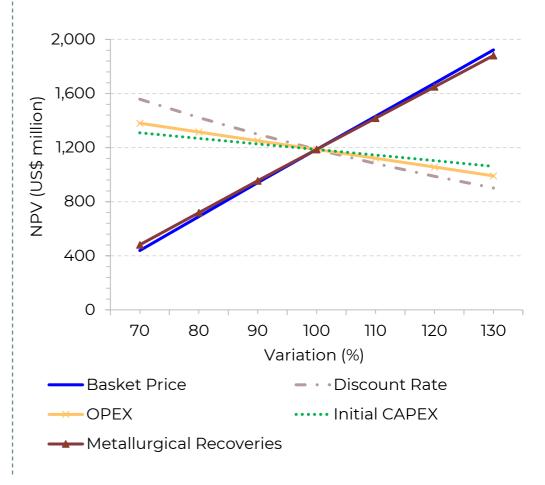
Dysprosium Chinese Price Forecast (Argus Media)

	2025	2028	2033
Total supply (kt REO)	3.1	3.8	4.0
Total demand (kt REO)	4.3	5.3	7.0
Surplus/deficit index (2018=100)	93	84	60
Price (US\$/kg) Base Case	415	510	945

Basket Price Scenarios Forecast*



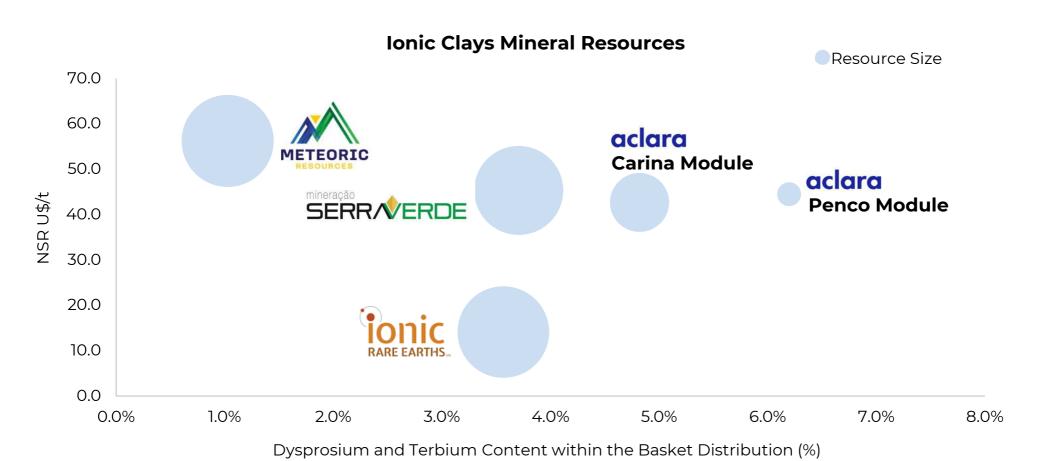
Sensitivities



LONG-TERM REE PRICES SUPPORTED BY COMPELLING DEMAND/SUPPLY FUNDAMENTALS

Peer Group: Resource Comparison





STRONG DyTb CONTENT POSITIONS CARINA AS THE POTENTIAL WORLD'S LARGEST PRODUCER OUTSIDE OF CHINA

Notes:

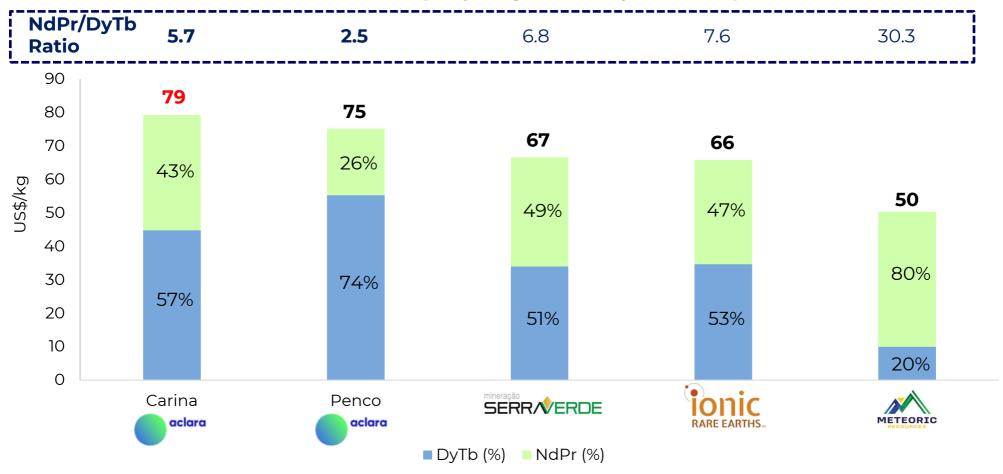
Mineral Resources Categories: Serra Verde (Measured and Indicated), Ionic Rare Earths (Measured and Indicated), Penco Module (Measured and Indicated), Carina Module (Inferred), Meteoric (Inferred)

Prices for rare earth oxides: The price estimates in US\$/kg used for NSR calculation La₂O₃ = 0.83, CeO₂ = 0.87, Pr₆O₁₁ = 134.13, Nd₂O₃ = 127.28, Sm₂O₃ = 2.09, Eu₂O₃ = 23.28, Gd₂O₃ = 92.93, Tb₄O₇ = 2,146.88, Dy₂O₃ = 718.63, Ho₂O₃ = 149.91, Er₂O₃ = 67.75, Tm₂O₃ = 0.0, Yb₂O₃ = 14.36, Lu₂O₃ = 92.93, Tb₄O₇ = 8.21. Discount used was US\$ 7 per kg REO.

Peer Group: Basket Price Comparison



Basket Price (Only Magnetics – DyTb & NdPr)



CARINA'S BALANCED DyTb & NdPr VALUE RESULTS IN THE HIGHEST BASKET PRICE AMONG PEERS

Low Environmental Impact





NO USE OF EXPLOSIVES

Simple extraction methos requires only loading and hauling



LOW CARBON FOOTPRINT

No crushing or milling results in minimal energy requirements



NO TAILING DAMS

No liquid residues; washed clays dry stacked or placed back on site



RECYCLING

95% of water used and 99% of reagents (common fertilizer)



REVEGETATION

Closure costs include revegetation of impacted areas









Carina Module Targetted Development Timeline



		2024		2025		2026		2027		2028		2030
Milestone	н	H2	FY	FY								
Technical Development					ı	ı	ı		ı		•	
Inferred Mineral Resource Drilling												
Semi-Industrial Scale Piloting												
Updated Mineral Resources and PEA												
Prefeasibility Study												
M&I Mineral Resource Drilling												
Feasibility Study												
Permitting												
Environmental Baseline												
EIA Evaluation Process												
Construction and Operation					'		'					
Construction												
Ramp-up and Operation												

EXPEDITED PATH TO EARLY PRODUCTION

Upside Potential

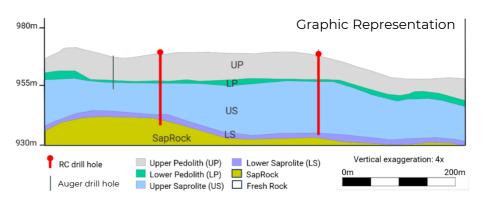


Mineral Resource Increase potential

- Current maiden resource supported by an average drill hole depth of 8.1 meters
- 9,090-meter reverse circulation drilling campaign in progress. 1,374 meters within 52 drill holes already executed with an average depth saprolite mineralization of 22 meters

Flow Sheet and Metallurgical Improvements

- Current recoveries based on Penco Module flowsheet configuration
- Piloting program in progress is expected to result in initiatives to improve metallurgical recoveries and to reduce capex and opex



New drill holes: RC campaign underway



Aclara's pilot plant facility

ALREADY PURSUING SIZE AND VALUE GROWTH POTENTIAL

Short-term Catalysts



Q1 2024

 Piloting results: processing 25 tonnes of Carina's ionic clays at Aclara's pilot plant in Chile underway

Q2 2024

Potential mineral resource increase: drilling already underway

Q3 2024

Update PEA: with potential new inferred mineral resources

2025

- Complete environmental baselines studies: already underway, to be used in the EIA study
- Complete Prefeasibility: bidding process in progress



Looking to Provide a Reliable Long Term Supply for a Successful Energy Transition



POSITIONED TO SUPPLY THE EV MARKET AT A TIME WHEN DEMAND IS EXPECTED TO SIGNIFICANTLY OUTPACE SUPPLY



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