METEORIC

ASX: MEI

CALDEIRA PROJECT

PRE-FEASIBILITY STUDY

A globally strategic, long-life rare earths project with significant growth potential

AGENDA

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Introduction

DISCLAIMER

These materials prepared by Meteoric Resources NL ("Meteoric" or the "Company") include forward looking statements. Forward looking statements can generally be identified by the use of forward looking words such as "may", "will", "expect", "intend", "plan", "estimate", "anticipate", "continue", and "guidance", or other similar words and may include, without limitation, statements regarding plans, strategies and objectives of management, anticipated production or construction commencement dates and expected costs or production outputs.

Forward looking statements inherently involve known and unknown risks, uncertainties and other factors that may cause the Company's actual results, performance and achievements to differ materially from any future results, performance or achievements. Relevant factors may include, but are not limited to, changes in commodity prices, foreign exchange fluctuations and general economic conditions, increased costs and demand for production inputs, the speculative nature of exploration and project development, including the risks of obtaining necessary licenses and permits and diminishing quantities or grades of reserves, political and social risks, changes to the regulatory framework within which the Company operates or may in the future operate, environmental conditions including extreme weather conditions, recruitment and retention of personnel, industrial relations issues and litigation.

Forward looking statements are based on the Company and its management's good faith assumptions relating to the financial, market, regulatory and other relevant environments that will exist and affect the Company's business and operations in the future. The Company does not give any assurance that the assumptions on which forward looking statements are based will prove to be correct, or that the Company's business or operations will not be affected in any material manner by these or other factors not foreseen or foreseeable by the Company or management or beyond the Company's control.

Although the Company attempts and has attempted to identify factors that would cause actual actions, events or results to differ materially from those disclosed in forward looking statements, there may be other factors that could cause actual results, performance, achievements or events not to be as anticipated, estimated or intended, and many events are beyond the reasonable control of the Company. Accordingly, readers are cautioned not to place undue reliance on forward looking statements. Forward looking statements in these materials speak only at the date of issue. Subject to any continuing obligations under applicable law or any relevant securities exchange listing rules, in providing this information the Company does not undertake any obligation to publicly update or revise any of the forward looking statements or to advise of any change in events, conditions or circumstances on which any such statement is based.

The information in this announcement that relates to Mineral Resource Estimates at the Cupim Vermelho Norte and the Dona Maria 1 & 2 prospects was prepared by BNA Mining Solutions and released on the ASX platform on 12 March 2025. The information in this release that relates to Mineral Resource Estimates at the Soberbo and Capão del Mel deposits was prepared by BNA Mining Solutions and released on the ASX platform on 14 May and 13 June 2024 respectively. The information in this release that relates to Mineral Resource Estimates at the Figueira deposit was prepared by BNA Mining Solutions and released on the ASX platform on 5 August 2024. The information in this release that relates to Mineral Resource Estimates at the Bara do Pacu deposit was prepared by BNA Mining Solutions and released on the ASX platform on 15 April 2025. The Company confirms that it is not aware of any new information or data that materially affects the Mineral Resources in this publication. The Company confirms that all material assumptions and technical parameters underpinning the estimates continue to apply and have not materially changed. The Company confirms that the form and context in which the BNA Mining Solutions findings are presented have not been materially modified.

This presentation includes exploration results, estimates of Mineral Resources and scoping study results. The Company has previously reported these results and estimates in ASX announcements dated 16 December 2022, 1 May 2023, 27 June 2023, 24 July 2023, 31 August 2023, 27 September 2023, 8 December 2023, 14 December 2023, 30 January 2024, 29 February 2024, 14 May 2024 and 13 June 2024, 8 July 2024, 5 August 2024, 22 October 2024, 12 December 2024 and 5 February 2025. The Company confirms that it is not aware of any new information or data that materially affects the information included in previous announcements (as may be cross referenced in the body of this announcement) and that all material assumptions and technical parameters underpinning the exploration results and Mineral Resource estimates continue to apply and have not materially changed.

All references to the pre-feasibility study and its outcomes in this release relate to the ASX announcement dated 21 July 2025. Please refer to the ASX announcement for full details and supporting information. The Company confirms that all material assumptions underpinning the production target and forecast financial information continue to apply and have not materially changed.

COMPANY OVERVIEW

MEI SNAPSHOT

ASX Code	**MEI**
Share Price (18/07/25)	**A$0.155**
Shares on Issue	**2,337M**
Market Capitalisation	**A$362M**

BOARD AND MANAGEMENT

Executive Chairman	**Dr Andrew Tunks**
Executive Director	**Dr Marcelo de Carvalho**
Managing Director	**Mr Stuart Gale**
Non-Executive Director	**Dr Paul Kitto**
Non-Executive Director	**Mr Peter Gundy**
Non-Executive Director	**Dr Nomi Prins**
Chief Financial Officer	**Mr Andy Thomson**

INVESTMENT HIGHLIGHTS

Caldeira is set to deliver lower cost MREC than hard rock peers

01

Largest ionic clay resource globally at 1.5Bt @ 2,359ppm TREO including 526ppm MREO and a high-grade >4,000ppm TREO starter pit

02

Low average operating costs (US$21.80/kg NdPr)[1] provide robust margins and profitability through the cycle

03

Low capital intensity project that benefits from a simple and environmentally friendly flowsheet, 1-30m depth and no tailings dam requirement

04

Compelling post-tax NPV[2] of US$1.3bn, with potential to further extend mine life and processing capacity

05

Accelerated path to permitting and production with priority status awarded from the Minas Gerais State Government to deliver first production in 2028

06

Connected by high quality road and rail infrastructure to major shipping ports at Sao Paulo (270km) and Rio de Janeiro (470km)

Source: Meteoric Company Filings & Caldeira Project Draft PFS (1) Net of by-product credits. (2) Post-tax NPV8 (real discount rate) at forecast pricing (midpoint of Adamas and Project Blue pricing forecasts)

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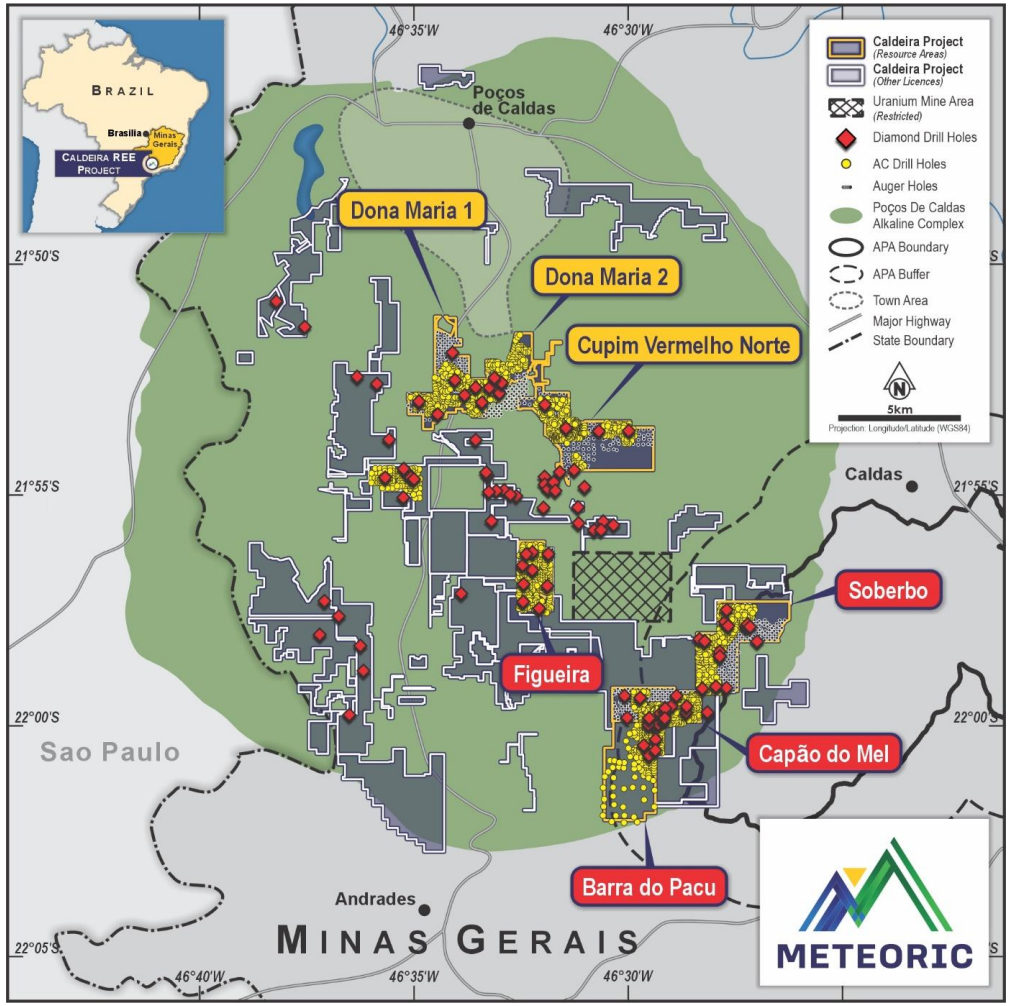
Caldeira overview

THE CALDEIRA RARE EARTHS PROJECT

The world's premiere undeveloped rare earths project

- The most significant and advanced rare earths ionic absorption clay project outside of China
- Favourably located in Minas Gerais, the largest mining state in Brazil
- Pre-Feasibility Study completed on southern licences only with scope for northern expansion to support a multi-decade operation
- Strong state and federal government support with a clearly defined approvals process
- Delivering an alternative and scalable supply of critical magnetic rare earths for use in Western magnet making production facilities



A WORLD-CLASS DEPOSIT…

Scale, grade, recovery and significant exploration upside

- High-grade ionic clay hosted rare earths mineralisation
- Multi-decade scale resource defined
- High metallurgical recoveries from a simple flowsheet
- Starting from surface
- Soft, free dig material with low strip ratio

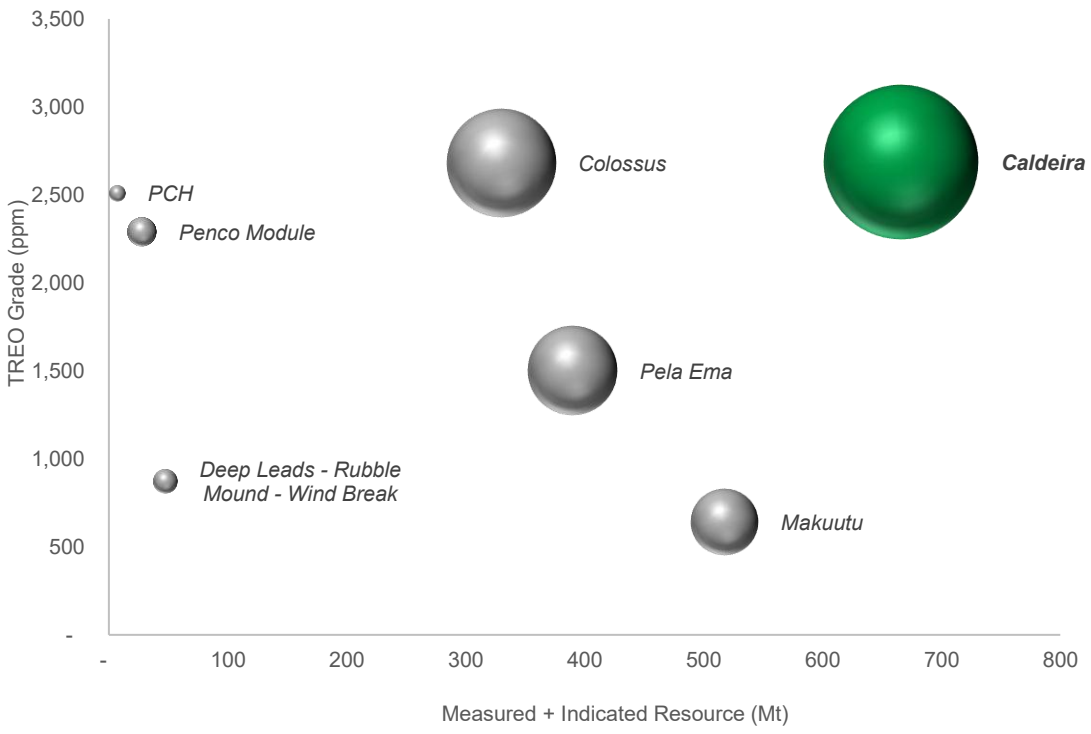
1.5Bt
Mineral Resource

Drilling limited to
~15%
of the total licence area

20 year
PFS initial mine life

M & I Resource
666Mt @ 2,685ppm

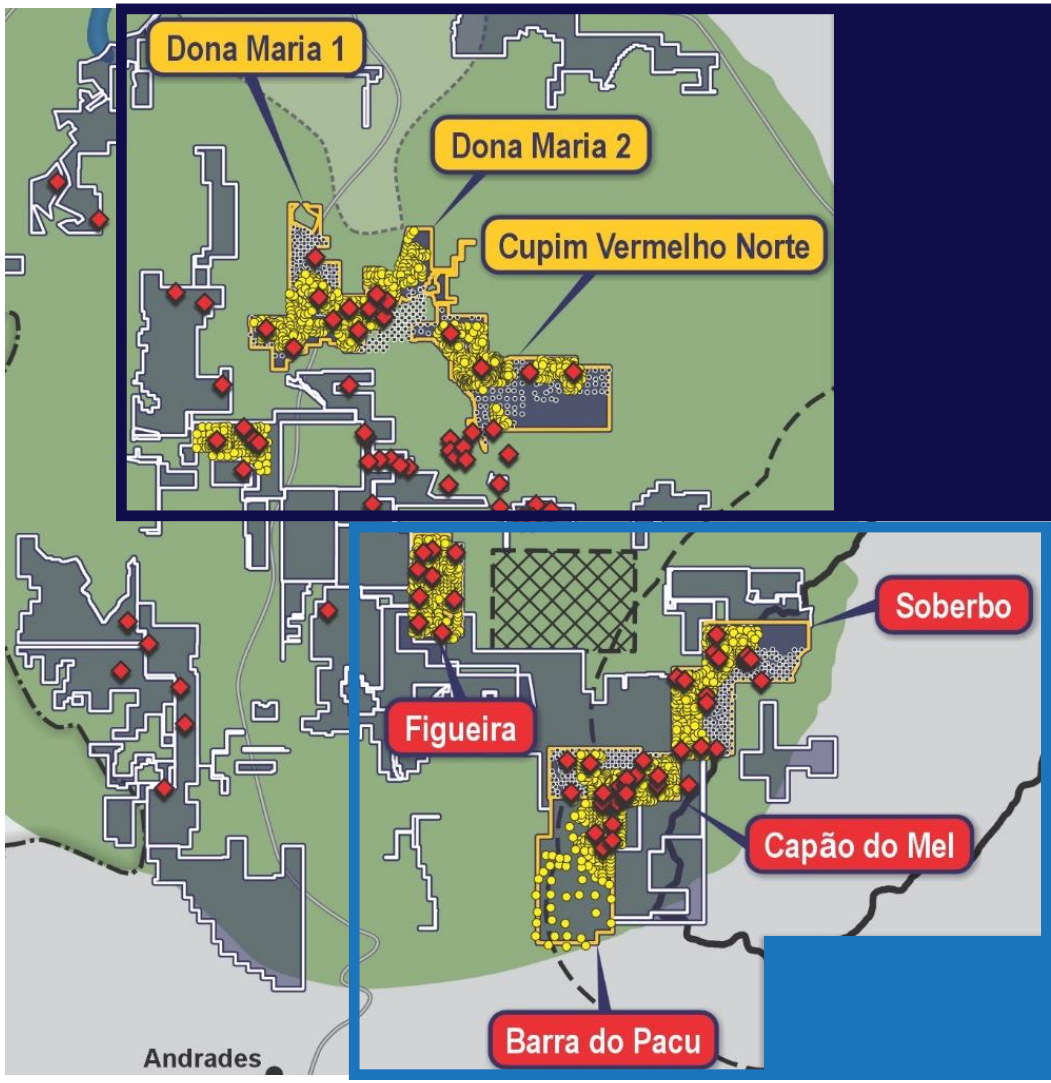
Measured and Indicated Mineral Resources of Rare Earth Ionic Absorption Clay Rare Earth deposits[1]



1. Graph of tonnage v TREO grade for reported M&I MREs of IAC deposits. The size of the sphere relates to contained metal. References in the appendices.

…WITH PROVINCIAL-SCALE UPSIDE

Scope for a Northern operating hub to materially increase both mine life and production potential



Stage 2: Northern processing facility

- Dona Maria 1 and 2, Cupim Vermelho Norte
- Total Resources of 567Mt at 2,203ppm TREO
- Measured + Indicated of 281Mt at 2,426ppm TREO
- Expansion opportunities readily available, utilising operational cash flows

Stage 1: 6Mtpa processing facility (PFS)

- Capao do Mel, Barra do Pacu, Soberbo, and Figueira
- Measured + Indicated of 385Mt at 2,875ppm TREO
- Probable Reserves of 103Mt at 4,091ppm TREO (corresponds to only 27% of M+I)
- High-grade ore with strong metallurgical performance
- LOM production of ~13,500tpa TREO

ESTABLISHED REGIONAL INFRASTRUCTURE

Project located near low-cost renewable energy infrastructure and transport and utilities corridors

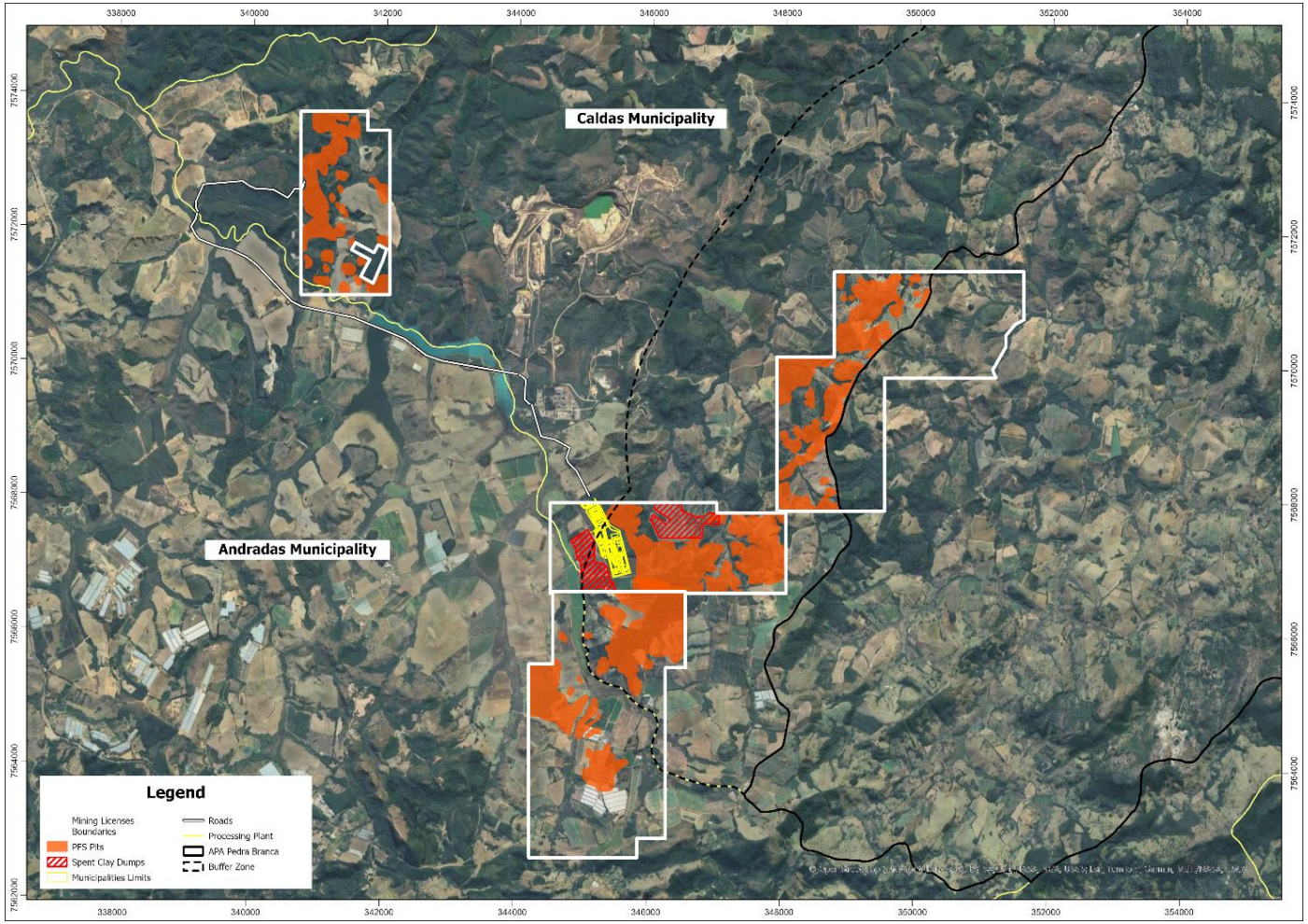
Water: supplied to the plant facilities by an existing dam, ~400m from the plant site

Power: 100% sourced from renewable energy (hydro, solar and wind) and connected to site via 2.5km overhead power line.

Road Access: connected to established main road infrastructure via construction of a ~3km unsealed road

Port: product from Caldeira to be shipped to customers via the port of Santos near the city of Sao Paulo, 254km from the project site.

Telecommunications: fibre optic connection via grid connected power supply OHL for operations



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PFS summary

CALDEIRA PFS | KEY HIGHLIGHTS

Study parameters substantially refined following extensive testwork and vendor-based cost estimates

Plant throughput	**6Mtpa**	↑ **20%**[1]	Optimised to deliver greater return on capital
Average annual Total Rare Earth Oxide (TREO) production	**13,584t**	↑ **40%**[1]	Representing ~8% of the global REO market[2]
Average annual NdPr Oxide production	**4,228t**	↑ **32%**[1]	Representing ~7% of the global NdPr market[2]
Maiden Probable Ore Reserve	**103Mt**	**@ 4,091ppm TREO**	Based on a minimum 100m x 100m drilling

1. Compared to the Updated Scoping Study released to the ASX on 22 October 2024 2. Source: Project Blue. Based on market demand (as at 2024) for Rare Earth Oxides (~172ktpa) and NdPr (~60ktpa) and forecast average annual production per the Caldeira Draft PFS.

CALDEIRA | SUMMARY FINANCIALS

Industry leading project of scale and simplicity with expansion potential

- Optimised plant design with 6.0Mtpa of capacity; 10% increase in capital costs, resulting in a **20% increase in capacity**
- **Development capex of US$443M** (inclusive of contingency) with substantial expansion upside
- **Post-tax NPV_8 of US$1.3bn**[2] and highly attractive **IRR of 39%** represents highly compelling return profile over LOM
- **Robust financials delivered** under forward pricing scenarios
- **Consensus pricing** derived from research analyst forecasts
- **Forecast pricing** utilises an average of Project Blue and Adamas price assumptions,
- **MP and DoD US$110/kg** NdPr supporting higher pricing environment near term

Key financial & cash flow metrics	Unit	Spot pricing	Consensus pricing	US$110/kg NdPr	Forecast pricing[1]
Annual Revenue	US$M	245	315	385	485
Annual EBITDA	US$M	86	150	213	305
Operating Cashflow	US$M	58	100	143	203
Annual operating costs (ex-royalties)	US$M	133			
Annual operating costs (ex-royalties)	US$/kg TREO	9.78			
Annual AISC (inc. royalties)	US$/kg TREO	12.62	13.07	13.53	14.18
Basket price TREO	US$/kg	26	33	41	51
NdPr average pricing	US$/kg NdPr	67	86	110	135
Cumulative post tax cashflow	US$M	1,165	1,994	2,842	4,058
Pre-tax NPV_8	**US$M**	**251**	**821**	**1,347**	**1,985**
Post-tax NPV_8	**US$M**	**109**	**488**	**835**	**1,256**
Pre-tax IRR	**%**	**15**	**28**	**36**	**39**
Post-tax IRR	**%**	**11**	**21**	**28**	**31**
Payback Period	**Years**	**6.1**	**2.9**	**2.5**	**2.8**

All inclusive of royalties

1. *Refer to Caldeira Project Pre-Feasibility Study cover announcement*
2. *NPV of forecast cash flows from construction assuming an 8% Real Discount Rate and mid-point of Adamas and Project Blue consulting price forecasts.*

CALDEIRA PFS | LOM PHYSICALS

Meteoric has high confidence in physical estimates that have undergone further refinement since the Updated Scoping Study was released in October 2024

- Together with industry-leading partners in *Ausenco*, *ANSTO* and *Fremantle Metallurgy*, Meteoric has conducted a bottom-up analysis of the physical inputs that underpin the draft PFS
- There has been limited overall variance, providing confidence in the robustness of key estimates, with key updates including:
  - Higher annual production driving increased return on capital and economies of scale
  - Strip ratio remains very low
  - High-grade (>4,000ppm) feed prioritised in mining schedule
  - Process flowsheet and recoveries validated with industry-leading testwork program
  - Potential for further optimisation and improvement via DFS

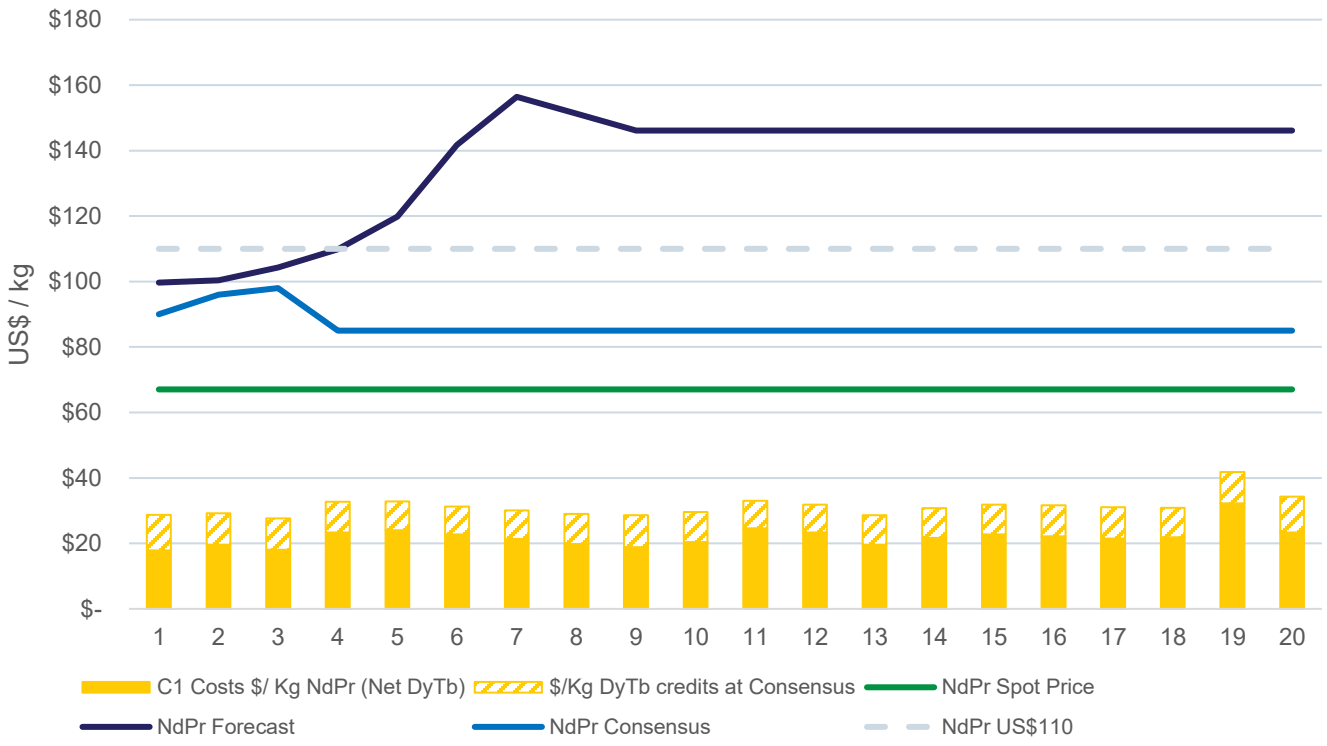
Key Production Outcomes	Unit	Updated Scoping Study		Pre-Feasibility Study	
		Years 1-5	LOM	Years 1-5	LOM
Ore Mined	kt	23,004	98,000	**26,523**	**128,989**
Strip Ratio	waste:ore	0.08	0.21	**0.52**	**0.38**
Average TREO Feed Grade	ppm	4,591	3,724	**4,500**	**3,750**
TREO Recovery	%	53	53	**54**	**55**
MREO Recovery	%	73	73	**73**	**71**
Average annual production (REO)	t	11,453	9,685	**12,382**	**13,584**
Production (REO)	t	57,258	193,584	**61,912**	**271,687**
NdPr production	t	18,110	63,899	**18,185**	**84,572**
DyTb production	t	510	1,923	**532**	**2,600**

CALDEIRA PFS | LOM OPERATING MARGINS

Attractive operating margins above NdPr and DyTb operating costs under all pricing scenarios

- PFS delivers robust financial outcomes at a higher degree of accuracy (+/- 25%) from the Scoping Study (+/- 40%)
- More accurately reflects economic conditions and current estimates for labour and utilities costs
- Costs of reagents and consumables derived from first principles using the consumption rates with prices quoted by suppliers for reagents delivered to site.
- Incorporates refined processes for mining and processing of Caldeira Project material:
  - No drilling or blasting
  - No equipment fleet costs (included in capital and sustaining capital)
  - No re-handling of materials (i.e. wet season stockpiles or spent clay)

Operating Costs (Real LOM)	Annual Cost (US$M) Year 1-5	Unit Cost (US$/kg TREO) Year 1-5	Annual Cost (US$M)	Unit Cost (US$/kg TREO)
Mining	31	2.54	39	3.04
Processing	79	6.37	88	7.24
Total operating costs	**110**	**8.91**	**127**	**9.78**



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Operational summary

SIMPLE, LOW COST MINING METHOD

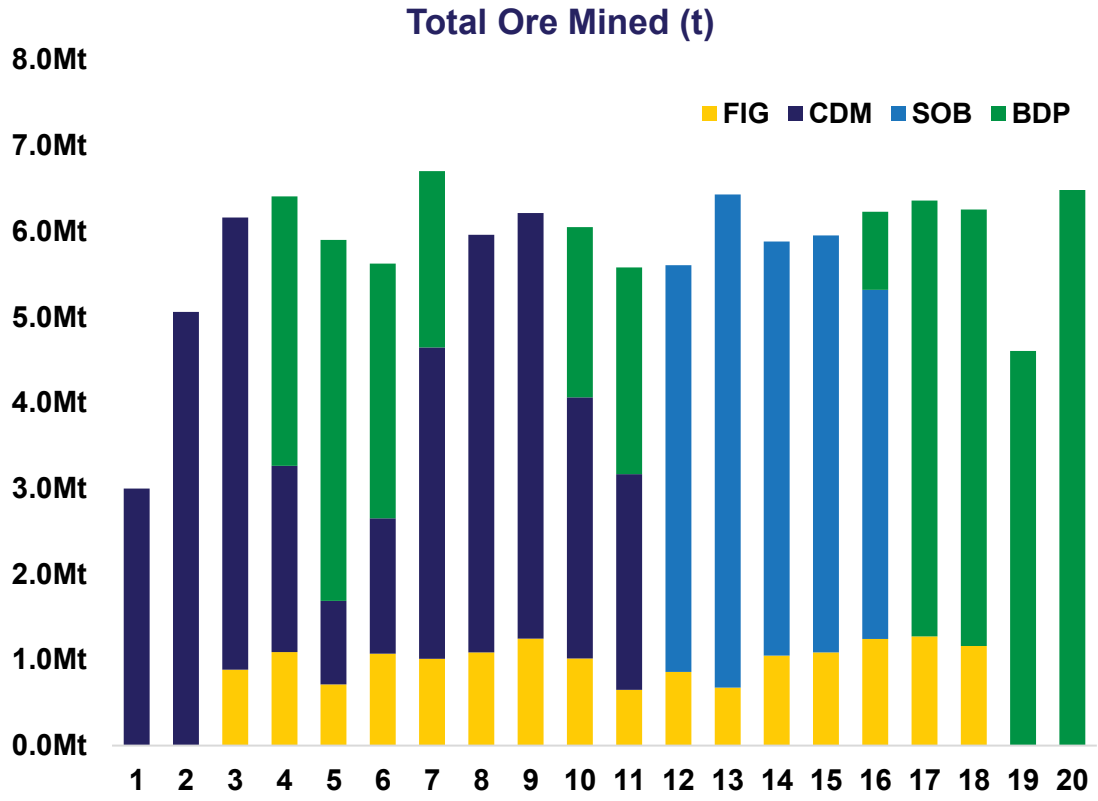
Mine schedule preferences higher grade ore to drive high returns and rapid payback

- Mine plan ~90% backed by existing Reserves
- No requirements for drill and blast
- Excavators and Trucks utilising conventional load and haul
- Planned owner-mining fleet
- Low LOM strip ratio of 0.38 (waste:ore)
- Spent Ore and Waste material backfilled into in-pit voids
- No requirement for tailings dam storage

Average mining costs

US$2.54/kg
TREO (first five years)

US$2.89/kg
TREO (LOM)



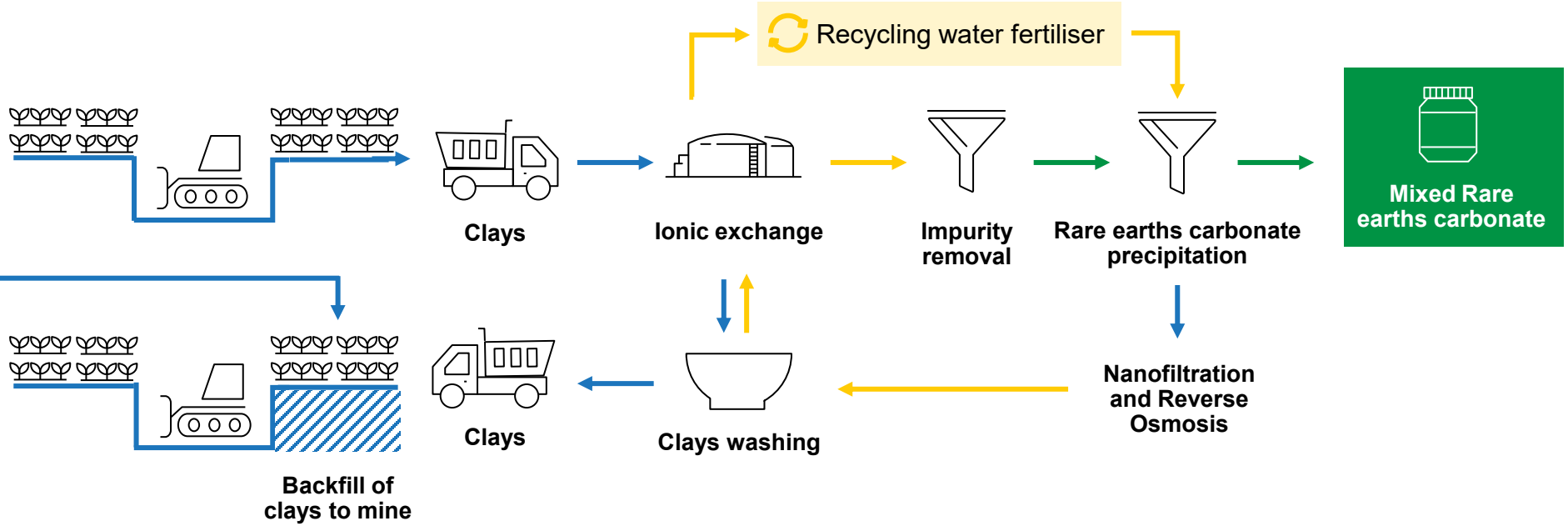
The PFS life of mine ore feed contains approximately 89% Measured & Indicated Resources and 11% Inferred Mineral Resources. An Inferred Mineral Resource has a lower level of geological confidence than an Ore Reserve or a Measured or Indicated Mineral Resource and there is no certainty that further exploration work will result in the conversion of the Inferred mineralisation into an Ore Reserve or that the production target itself will be realised.

METALLURGY UNLOCKS VALUE

ANSTO testwork programs provide confidence and optimization of flowsheet and processing costs

- Rare earth minerals extracted using a low acidity (pH 4.5 – 5) ammonium sulphate solution within a short cycle time (<30 minutes) at ambient temperature
- Continuous pilot program undertaken by ANSTO on a 2.5t sample representative of the CDM starter pit
- Demonstrates process flowsheet with MREO **recoveries of 70%** achieved with a **high quality MREC with <2% impurities**
- Further piloting to be undertaken in Brazil in the December quarter 2025 including commissioning of a pilot plant

Simple process flowsheet with low technical risk and high environmental credentials



Clays | Water | Rare earths

Average process costs **US$6.89/kg** **TREO (LOM)**

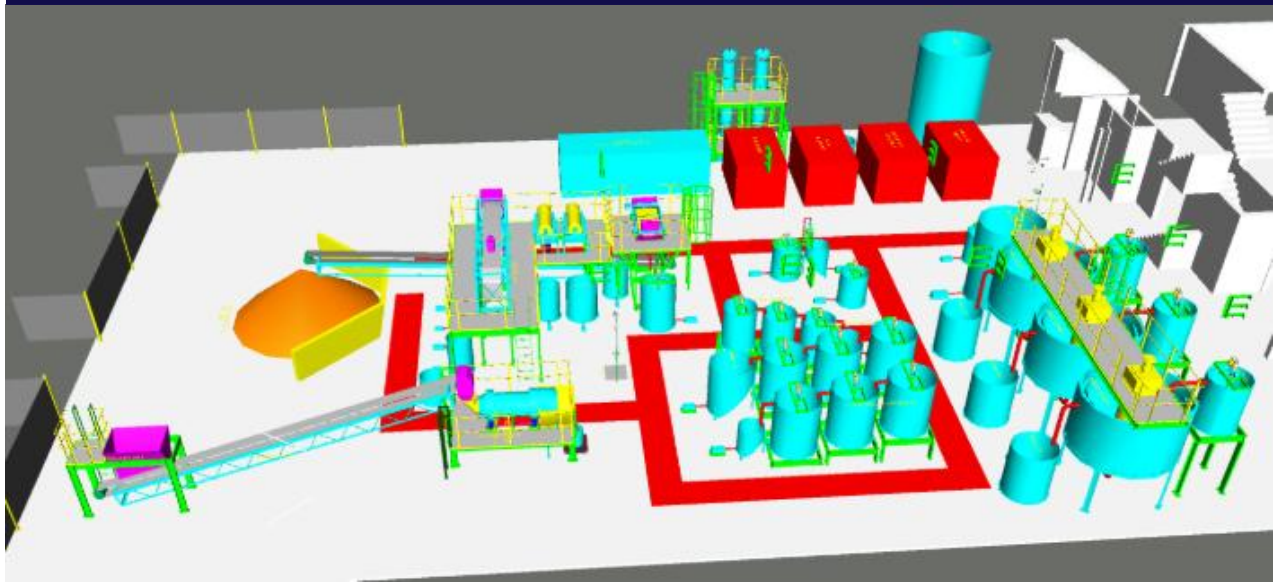
FORWARD WORK PROGRAM

Pilot plant being established at the Caldeira Project to support future studies and a development decision

~A$2.2M
Capital cost

25 – 30kg/hr
Process capacity

1kg TREO within 1.8kg MREC
Output per day



- Pilot plant to produce MREC planned to be established in Poços de Caldas
- Operational in the December quarter 2025
- Objective to further validate and optimise the flowsheet and test different ore types from the Caldeira Project
- MREC produced will be sent to potential offtake partners for testing
- Enables assessment of downstream separation processes including MTM's FJH technology

ASSESSING DOWNSTREAM OPTIONS

Potential to fast-track the production of separated rare earths oxides and/or magnets outside of China

- Several MOUs signed with credible counterparties:
  - MTM Critical Metals (**MTM**) provides framework to expand downstream processing and separation capabilities
  - Neo Performance Materials offtake MOU supports the production of permanent magnets in Estonia
  - Ucore Rare Metals offtake MOU supports rare earth separation at a new facility in Louisiana, USA
- Successful recent MTM unoptimised proof-of-concept use of its Flash Joule Heating (**FJH**) separation technology to recover high value magnetic elements from MREC
- MREO content increases from ~30% to 72% by removing of low-value rare earths – 83% La and 88% Ce
- Development of Pilot Plant in Poços de Caldas in September 2025 hosts potential to incorporate FJH demonstration facility

MTM CRITICAL METALS

PROCESS MOU

MREC separation test work

neo Performance Materials

OFFTAKE MOU

3ktpa TREO inc. 900t NdPr

ucore

OFFTAKE MOU

3ktpa TREO inc. 900t NdPr

Initial unoptimised Flash Joule Heating REE recoveries from MREC

Element	Recovered	Interpretation
Praseodymium (Pr)	76 %	Strong volatilisation in single flash
Neodymium (Nd)	65 %	Major portion transferred to vapour
Dysprosium (Dy)	75 %	High heavy REE recovery
Terbium (Tb)	81 %	Near-total recovery in vapour phase
Gadolinium (Gd)	89 %	Confirmed strong heavy REE separation
Samarium (Sm)	51 %	Moderate recovery; to be improved by further flash runs

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Permitting and funding

OVERVIEW OF THE PERMITTING PROCESS

Meteoric continues to successfully progress through Brazil's 3-stage permitting regime

1 Submission of the Caldeira EIS — Complete

May 2024

- Comprehensive research and community consultation from mid-2023
- Includes favourable feedback from a Social Diagnosis and Stakeholder Survey of the Caldeira Project conducted by EcoDue Ambiental in December 2023

2 Preliminary License Approval (LP)

November 2025

- Initial license designed to evaluate social and environmental feasibility
- The principal document supporting the LP was the EIS and Meteoric has strong confidence in receiving approval with the majority of key milestones already being achieved to date

3 Installation License Approval (LI)

June 2026

- Key license to commence detailed construction of the project
- The principal document supporting the LI application is the Environmental Control Plan (PCA) which is **being drafted in parallel with the analysis by EPA of the LP application**
- ANM approvals to add REEs (PAE and RRR) and CDM approval to convert to ML

Key requirement for FID and commencement of construction

4 Operating License Approval (LO)

2028

- Short, audit style process during which the regulatory authorities (SEMAD) confirm that the project is in compliance with the conditions set out in the Installation License

DETAILED PERMITTING PROCESS ADVANCING

Targeting mid-2026 for issuance of Construction Licence

September 2023
Start of Environmental Studies

February 2024
Conclusion of the EIS fields survey

May 2024
EIS submission to the EPA

July 2024
Start of Construction License studies (PCA)

November 2024
Public Hearing in Caldas

March 2025
EPA site visit and **CODEMA approval**[1]

August 2025
Deliver Complementary Info (IC) to the EPA

November 2025
Preliminary License (LP) Issuance

November 2025
CONGEAPA[2] **approval**

January 2026
Construction License (LI) submitted to EPA

May 2026
Deliver Complementary Info (IC) to the EPA

June 2026
Construction License (LI) Issuance

2026 – 2028
Caldeira Project Construction

2028
Expected Operating License (LO) Issuance

2028
Operations Commence

Meteoric is confident of receiving all necessary approvals with strong government support at all levels – BIP, Federal Ministers, the Mayor and councillor officials have all expressed support in favour of the project and the company has executed an MOU with the State Government

1) *CODEMA is the Municipal Environmental Council which was responsible to issue the Certificate of Regularity for Land Use and Occupation to Caldeira Project.*
2) *CONGEAPA is the Management Council of the Pedra Branca's Environmental Protection Area (APA). As Caldeira Project is located within the APA's buffer zone, CONGEAPA should be consulted about the project.*

CALDEIRA MINE PLAN COMPLIES WITH THE APA

There are two environmental protection areas within the municipality of Caldas

1 Law relating to mining in the environmental areas

- The key environmental areas relevant to the Caldeira Project are the Environmental Protection Area ("**APA**"), and a 3km strip surrounding the APA ("**Buffer Zone**")
- Article 51 of Law of Caldas/MG nº 1.973/2006 stipulates that mining activity is currently not permitted within the APA (other than for existing activity with operating licenses)
- Mining within the Buffer Zone **is permitted** and may be undertaken **upon completion of an Environmental Impact Assessment (EIA)** which Meteoric submitted in May 2024

2 Treatment within the proposed mining plan

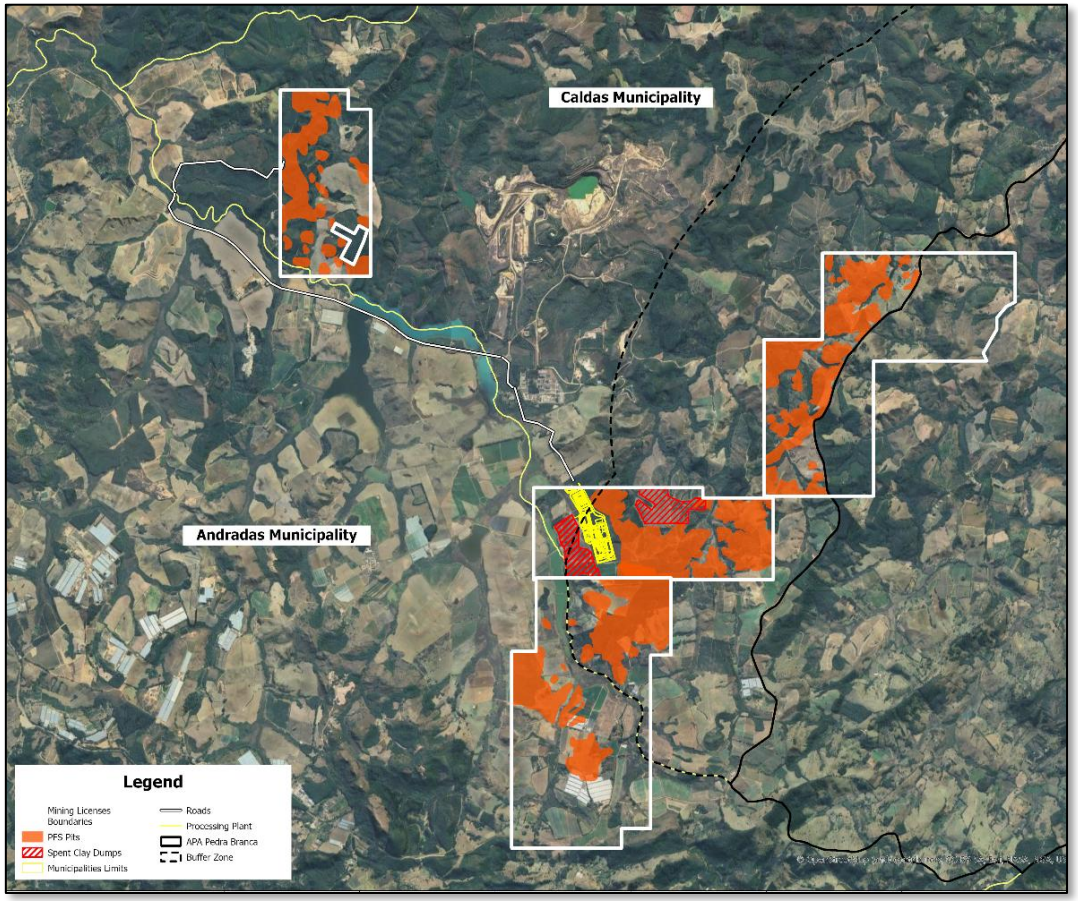
- **No part of the Caldeira mine plan is within the APA;** Production from Capoa Do Mel starter pit (CDM), Barra do Pacu (BDP) and Soberbo (SOB) licenses **includes areas within the Buffer Zone.** Meteoric has sought approval to mine within these areas.

3 Meteoric has engaged extensively with key decision makers

- The **Caldas Council**, together with the **Mayor of Caldas,** are responsible for decisions relating to the management of the APA and buffer zone.
- Meteoric has a **strong relationship with the Mayor** who has publicly been supportive of the project
- **The Governor of Minas Gerais** continues to **strongly support Caldeira** and maintains a longstanding relationship with the Meteoric team
- **The Minister of Mines and Energy**, has publicly spoken about Caldeira and its **importance is for Brazil**.

Image (L-R): Marcelo De Carvalho (Executive Director, Meteoric) with Alexandre Silveira (Minister of Mines and Energy) and Ailton Goula (Mayor of Caldas)

Map of the Caldeira Project



CAPITAL COSTS AND FUNDING

The development will be funded by a combination of ECA debt, strategic equity and listed equity

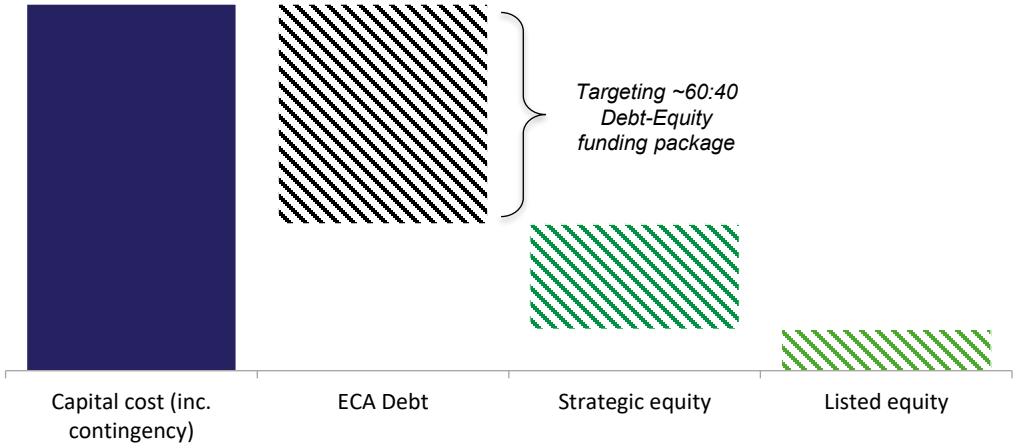
Project development costs

- **US$357m** of capital for base case **6.0Mtpa development**
- Includes all direct and indirect costs, taxes and owner's costs
- **Class 4 estimate** (nominal accuracy of +/- 25%)
- **US$443m** of total capital cost including **~25% contingency**

Approach to funding

- Meteoric continues to assess potential funding options for Caldeira and intends to utilise a combination of **Government / ECA debt**, **strategic equity** and **listed equity**
- To date, there has been **strong engagement with EXIM, BNDES, FINEP, DFC and other government funding agencies.** Meteoric remains confident in the ability to securing government funding for Caldeira
- Following inbound interest from strategic parties, Meteoric has also engaged Macquarie to assess potential strategic equity funding options

Indicative funding waterfall (US$m)



Figures in US$m	Total cost	Contingency	Total incl. contingency
Mining	24.7	3.3	28.0
Plant Direct	258.8	64.7	323.5
Plant Indirect	73.5	18.4	91.9
Total	**357.0**	**86.4**	**443.4**

CONCLUDING REMARKS

Caldeira stands out as the world's premiere undeveloped rare earths project

1. The largest ionic clay resource globally with ~1.5Bt @ 2,359ppm TREO; including a high-grade maiden Ore Reserve of 103Mt @ 4,091ppm TREO
2. Low operating costs underpinned by high grades, low strip ratios and simple processing flowsheet with no radioactive tailings
3. Ex-China supply of rare earths with a high proportion of valuable heavy rare earth oxides supporting >35% EBITDA margin across the LOM
4. Favourable mining jurisdiction, shortlisted by BNDES and FINEP for government funding / subsidies as part of R$5 billion Critical Minerals Fund
5. Significant life expansion potential with less than 10% of total Resource included in the current Mine Plan, and only ~15% of licences explored

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Appendix

RARE EARTHS SUPPLY UNCERTAINTY

Critical minerals with strategic geopolitical importance and a market controlled by China

- On 4 April 2025, China's Ministry of Commerce and General Administration announced new restrictions on the export of medium and heavy rare earths and alloys
- These rare earths are critical feedstock components in the EV automobile, IT and military defence industries
- Increasing uncertainties in global trade flows following US tariff proposals
- China maintains a strong foothold on global REE production and processing with virtual control over the rare earths supply chain
- Further highlights the strategic importance of a steady, sustainable supply of rare earths to western markets
- Caldeira represents a highly economic alternative global rare earths source

Caldeira Mineral Resource by deposit (export restricted rare earths in yellow)

Element	Oxide	CDM	FIG	SOB	DM1	DM2	CVN	BDP	Totals
Yttrium	Y_2O_3	16,605	31,415	30,168	28,383	13,217	35,393	40,263	195,443
Lanthanum	La_2O_3	128,823	156,135	216,180	138,223	75,465	194,169	328,354	1,237,350
Cerium	CeO_2	123,735	165,985	172,629	140,064	71,399	185,858	287,836	1,147,508
Praseodymium	Pr_6O_{11}	19,144	23,961	36,600	24,152	12,600	34,737	43,833	195,027
Neodymium	Nd_2O_3	52,145	66,764	104,866	72,225	37,499	104,807	116,054	554,360
Samarium	Sm_2O_3	5,968	7,854	12,046	8,851	4,371	12,749	13,178	65,018
Europium	Eu_2O_3	1,513	2,082	3,045	2,289	1,096	3,195	3,388	16,608
Gadolinium	Gd_2O_3	4,042	5,567	8,048	5,997	2,887	8,572	8,983	44,096
Terbium	Tb_4O_7	554	847	1,058	840	399	1,124	1,295	6,117
Dysprosium	Dy_2O_3	2,803	4,677	5,268	4,494	2,114	5,908	6,793	32,057
Holmium	Ho_2O_3	498	892	921	850	391	1,068	1,225	5,844
Erbium	Er_2O_3	1,316	2,546	2,426	2,358	1,087	2,977	3,232	15,942
Thulium	Tm_2O_3	170	349	313	317	143	388	422	2,101
Ytterbium	Yb_2O_3	1,020	2,185	1,836	1,935	874	2,387	2,576	12,814
Lutetium	Lu_2O_3	142	307	207	272	124	328	365	1,746
Total Tonnes		**358,478**	**471,564**	**595,614**	**431,250**	**223,666**	**593,660**	**857,798**	**3,532,028**

MREC PRODUCT SPECIFICATIONS

High MREO grades with low levels of impurities

- **Low U_3O_8 and ThO_2 levels** - five batches of MREC produced by ANSTO piloting and tested
- Based on this testwork MREC produced at the Caldeira Project would **not be classified as radioactive** for transportation under International Atomic Energy Agency guidelines

12,382t
Average **TREO production** per year (first five years)

13,584t
Average **TREO production** per year (LOM)

4,022t
Average **NdPr production** per year (80,442t LOM)

124t
Average **DyTb production** per year (2,473t LOM)

TREO composition

REO	Concentration (%)
La_2O_3	31.4
CeO_2	0.67
Pr_6O_{11}	**4.29**
Nd_2O_3	**11.06**
Sm_2O_3	1.08
Eu_2O_3	0.27
Gd_2O_3	0.81
Tb_4O_7	**0.091**
Dy_2O_3	**0.37**
Ho_2O_3	0.059
Er_2O_3	0.13
Tm_2O_3	0.011
Yb_2O_3	0.062
Lu_2O_3	0.0073
Y_2O_3	2.37
TREO	**52.7**

Impurity composition

Oxide	Concentration	Units
Al_2O_3	0.21	%
CaO	0.56	%
K_2O	0.017	%
MnO	0.013	%
SiO_2	0.095	%
SO_4	1.03	%
SrO	0.11	%
ZnO	0.086	%
CdO	<2	ppm
CoO	<3	ppm
Cr_2O_3	<6	ppm
CuO	<5	ppm
Fe_2O_3	31	ppm
HgO	<2	ppm
MgO	<30	ppm
NiO	<5	ppm
P_2O_5	92	ppm
ThO_2	<2	ppm
TiO_2	<3	ppm
U_3O_8	8	ppm
V_2O_5	<4	ppm
ZrO_2	3	ppm
Cl	<50	ppm
F	710	ppm
Loss on Ignition	45.2	%

MAIDEN ORE RESERVE

Selectively targeting the highest-grade mineralisation to drive high returns and rapid payback

Classification	Tonnes (Mt)	TREO ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Cont. REO kt
Capão do Mel (CDM)					
Proved	-	-	-	-	-
Probable	37.1	3,925	243	667	146
Total	**37.1**	**3,925**	**243**	**667**	**146**
Figueira					
Proved	-	-	-	-	-
Probable	16.1	4,951	450	938	75
Total	**16.1**	**4,951**	**450**	**938**	**75**
Soberbo					
Proved	-	-	-	-	-
Probable	24.3	3,735	256	736	91
Total	**24.3**	**3,735**	**256**	**736**	**91**
Barra do Pacu (BDP)					
Proved	-	-	-	-	-
Probable	25.5	4,130	234	621	105
Total	**25.5**	**4,130**	**234**	**621**	**105**
Total Caldeira Project					
Proved	-	-	-	-	-
Probable	103.0	4,091	276	714	416
Total	**103.0**	**4,091**	**276**	**714**	**416**

- Ore Reserves based solely on higher-grade material from the CDM, Figueira, Soberbo and BDP deposits
- Ore Reserve average grade >70% higher than the average Mineral Resource grade to drive returns
- Drill density for Ore Reserves at a minimum 100m x 100m spacing
- Significant scope for future growth

1. *All Ore Reserve figures reported in the table above represent estimates as at 21 July 2025. Ore Reserve estimates are not precise calculations, being dependent on the underlying Mineral Resource and based on limited information in respect to modifying factors. The totals contained in the above table have been rounded to reflect the relative uncertainty of the estimate.*
2. *Only material that is CLAY and has a resource classification of Measured or Indicated have been included.*
3. *Measured and Indicated have been converted to Probable only.*
4. *Ore Reserves are reported in accordance with the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (The Joint Ore Reserves Committee Code – JORC 2012 Edition).*

CALDEIRA MINERAL RESOURCE ESTIMATE (APRIL 2025)

Licence	JORC Category	Material Type	Tonnes Mt	TREO ppm	Pr_6O_{11} ppm	Nd_2O_3 ppm	Tb_4O_7 ppm	Dy_2O_3 ppm	MREO ppm	MREO/TREO
Capão do Mel	Measured	Clay	11	3,888	222	586	6	28	842	21.7%
Cupim Vermelho Norte	Measured	Clay	26	2,607	156	477	5	25	663	25.4%
Total	**Measured**		**37**	**2,983**	**176**	**509**	**5**	**26**	**715**	**24.0%**
Capão do Mel	Indicated	Clay	74	2,908	163	449	5	23	640	22.0%
Barra do Pacu	Indicated	Clay	77	2,917	143	376	4	21	545	18.7%
Soberbo	Indicated	Clay	86	2,730	165	476	5	23	669	24.5%
Figueira	Indicated	Clay	138	2,844	145	403	5	28	582	20.5%
Cupim Vermelho Norte	Indicated	Clay	90	2,658	163	489	5	26	683	25.7%
Dona Maria 1	Indicated	Clay	111	2,253	128	376	4	23	531	23.6%
Dona Maria 2	Indicated	Clay	53	2,303	132	390	4	22	548	23.8%
Total	**Indicated**		**629**	**2,668**	**148**	**422**	**5**	**24**	**599**	**22.4%**
Total	**Measured + Indicated**		**666**	**2,685**	**150**	**427**	**5**	**25**	**605**	**22.5%**
Capão do Mel	Inferred	Clay	32	1,791	79	207	2	13	302	16.9%
Barra do Pacu	Inferred	Clay	190	2,153	112	296	3	18	429	19.9%
Soberbo	Inferred	Clay	89	2,713	167	478	5	24	675	24.9%
Figueira	Inferred	Clay	9	3,105	139	379	5	28	551	17.7%
Cupim Vermelho Norte	Inferred	Clay	78	2,237	126	377	4	23	530	23.8%
Dona Maria 1	Inferred	Clay	49	2,225	121	383	5	25	534	24.0%
Dona Maria 2	Inferred	Clay	29	2,324	130	397	4	21	552	23.8%
Capão do Mel	Inferred	Transition	25	1,752	86	239	3	14	341	19.5%
Barra do Pacu	Inferred	Transition	122	1,837	95	253	3	15	355	19.9%
Soberbo	Inferred	Transition	54	2,207	138	395	4	20	558	25.3%
Figueira	Inferred	Transition	24	2,174	115	328	4	21	468	21.5%
Cupim Vermelho Norte	Inferred	Transition	67	1,665	92	281	3	17	393	23.6%
Dona Maria 1	Inferred	Transition	42	1,703	95	275	3	17	390	22.9%
Dona Maria 2	Inferred	Transition	21	1,615	86	251	3	15	355	22.0%
Total	**Inferred**		**832**	**2,097**	**115**	**325**	**4**	**19**	**462**	**22.0%**
Total	**Measured + Indicated + Inferred**		**1,497**	**2,359**	**130**	**370**	**4**	**21**	**526**	**22.3%**

Caldeira Project MRE by licence at 1,000ppm TREO cut-off. Differences may occur due to rounding.

PEER COMPARISON REFERENCE DATA

Source data for Bubble Plot, showing IAC Deposits with reported Measured + Indicated Resources (Mt) x TREO Grade (ppm).

Company	Project	Classification	Resource(Mt)	Grade (ppm)	Cut-Off (ppm)	MREO (ppm)	Bubble Size	Reference
Serra Verde	Pela Ema	Measured + Indicated	390	1,500	NSR	0	59	Minedocs August 2016
Appia	PCH	Indicated	7	2,513	NSR	562	2	Appia Rare Earths & Uranium Corp 1 March 2023
Viridis	Colossus	Measured + Indicated	330	2,680	1000	659	71	Viridis Mining & Minerals Ltd 22 January 2025
Ionic Rare Earths	Makuutu	Indicated	518	640	200	152	33	Ionic Rare Earths Limited 15 May 2024
Aclara	Penco Module	Measured + Indicated	28	2,292	NSR	523	6	Aclara Resources Inc. 12 December 2023
Meteoric Resources	**Caldeira (Global)**	**Measured + Indicated**	**666**	**2,655**	**1000**	**605**	**179**	***MEI ASX 15 April 2025***
Meteoric Resources	CDM	Measured + Indicated	85	3,035	1000	666	26	*MEI ASX 13 June 2024*
Meteoric Resources	BdP	Indicated	77	2,917	1000	545	22	*MEI ASX 15 April 2025*
Meteoric Resources	SOB	Indicated	86	2,730	1000	669	23	*MEI ASX 14 May 2024*
Meteoric Resources	FIG	Indicated	138	2,844	1000	582	39	*MEI ASX 5 August 2024*
Meteoric Resources	CVN	Measured + Indicated	116	2,647	1000	679	31	*MEI ASX 12 March 2025*
Meteoric Resources	DM1 + DM2	Indicated	164	2,269	1000	536	37	*MEI ASX 12 March 2025*