



# A global multi-mine Uranium producer

Positioned to benefit from a rising Uranium market

Annual General Meeting 2024

20 November 2024

ASX: BOE | OTCQX: BQSSF



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The information in this document relating to the Enhanced Feasibility Study ("EFS") is extracted from the announcement entitled 'Updated Feasibility Study identifies lower costs and increased financial returns' dated 21 June 2021. Boss Energy confirms that all the material assumptions underpinning the production targets, and forecast financial information derived from the production targets, continue to apply and have not materially changed.

As the EFS utilises a portion of Inferred Mineral Resources, the ASX Listing Rules require a cautionary statement to be included in this presentation. The EFS is based on a Mineral Resources Estimate in accordance with JORC guidelines 2012 (ASX:149% Increase in Measured and Indicated Resources at Honeymoon dated 25 February 2019).

The Company advises that the EFS uses a portion of Inferred Resources in the first 3 years (less than 1%), in the first 5 years (5%) and over the 11-year life of mine (19%). The Company confirms that the use of Inferred Resources is not a determining factor to the Honeymoon Project's economic viability. There is a low level of geological confidence associated with Inferred Resources and there is no certainty that further exploration or evaluation work will result in the determination of Indicated Resources or that the production targets reported in this announcement will be realised.

## REFERENCE TO PREVIOUS ASX ANNOUNCEMENTS

The mineral resource estimate and exploration target in this announcement were reported by the Company in accordance with listing rules 5.8 and 5.7 (respectively) on 25 February 2019 and 25 March 2019, respectively. The Company confirms it is not aware of any new information or data that materially affects the information included in the previous announcement and that all material assumptions and technical parameters underpinning the estimates in the previous announcement continue to apply and have not materially changed.

In relation to the exploration target, this does not include areas of the existing mineral resource and the potential quantity and grade reported are conceptual only in nature. Insufficient exploration has been conducted to estimate a mineral resource and it is uncertain whether future exploration will lead to the estimation of a mineral resource in the defined areas.

## EFFECT OF ROUNDING

A number of figures, amounts, percentages, estimates, calculations of value and fractions in this Presentation are subject to the effect of rounding. Accordingly, the actual calculation of these figures may differ from the figures set out in this Presentation.

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Past performance information, including past share price performance of Boss Energy and pro forma financial information, given in this Presentation is given for illustrative purposes only and should not be relied upon as (and is not) an indication of Boss Energy's (or anyone else's) views on Boss Energy's future financial performance or condition. Past performance of Boss Energy cannot be relied upon as an indicator of (and provides no guidance as to) the future performance of Boss Energy. Nothing contained in this Presentation nor any information made available to you is, or shall be relied upon as a promise, representation, warranty or guarantee, whether as to the past, present or future.

## JORC CODE

It is a requirement of the Listing Rules that the reporting of ore reserves and mineral resources in Australia comply with the Joint Ore Reserves Committee's Australasian Code for Reporting of Mineral Resources and Ore Reserves ("JORC Code"). Investors outside Australia should note that while ore reserve and mineral resource estimates of the Company in this Presentation comply with the JORC Code (such JORC Code-compliant ore reserves and mineral resources being "Ore Reserves" and "Mineral Resources" respectively), they may not comply with the relevant guidelines in other countries and, in particular, do not comply with (i) National Instrument 43-101 (Standards of Disclosure for Mineral Projects) of the Canadian Securities Administrators (the "Canadian NI 43-101 Standards"); or (ii) Item 1300 of Regulation S-K, which governs disclosures of mineral reserves in registration statements filed with the SEC. Information contained in this document describing mineral deposits may not be comparable to similar information made public by companies subject to the reporting and disclosure requirements of Canadian or US securities laws.

## FOREIGN RESOURCE ESTIMATE

Please refer to Boss Energy's announcement to the ASX market announcements platform dated 6 December 2023 for additional technical information relating to the foreign resource estimate for the Alta Mesa Project. Boss Energy confirms it is not in possession of any new information or data relating to the foreign resource estimate that materially impacts on the reliability of the estimate or Boss Energy's ability to verify the foreign estimate as a mineral resource in accordance with the JORC Code. Boss Energy confirms that the supporting information provided in Boss Energy's announcement to the ASX market announcements platform on 6 December 2023 continues to apply and has not materially changed.

This ASX announcement was approved and authorised by the CEO on behalf of the Board of Boss Energy.



# Honeymoon and Alta Mesa Resource Tables

## HONEYMOON JORC EXPLORATION TARGETS AND MINERAL RESOURCE

The information in this Presentation relating to the Enhanced Feasibility Study (EFS) is extracted from the announcement entitled 'Updated Feasibility Study identifies lower costs and increased financial returns' dated 21st June 2021. Boss Energy confirms that all the material assumptions underpinning the production targets, and forecast financial information derived from the production targets, continue to apply and have not materially changed. As the EFS utilises a portion of Inferred Mineral Resources, the ASX Listing Rules (**Listing Rules**) require a cautionary statement to be included in this Presentation. The EFS is based on a Mineral Resources Estimate in accordance with the JORC 2012 guidelines (ASX: 149% Increase in Measured and Indicated Resources at Honeymoon date 25 February 2019). The Company advises that the EFS uses a portion of Inferred Resources; in the first 3 years (less than 1%), in the first 5 years (5%) and over the 11-year life of mine (19%). The Company confirms that the use of Inferred Resources is not a determining factor to the Honeymoon Project's economic viability. There is a low level of geological confidence associated with Inferred Resources and there is no certainty that further exploration or evaluation work will result in the determination of Indicated Resources or that the production targets reported in this announcement will be realised.

The mineral resource estimate and exploration target in this Presentation were reported by the Company in accordance with Listing Rules 5.8 and 5.7 (respectively) on 25 February 2019 and 25 March 2019, respectively. The Company confirms it is not aware of any new information or data that materially affects the information included in the previous announcement and that all material assumptions and technical parameters underpinning the estimates in the previous announcement continue to apply and have not materially changed. In relation to the exploration target, this does not include areas of the existing mineral resource and the potential quantity and grade reported are conceptual only in nature. Insufficient exploration has been conducted to estimate a mineral resource and it is uncertain whether future exploration will lead to the estimation of a mineral resource in the defined areas.

	Tonnes (Mt)	Grade (%U <sub>3</sub> O <sub>8</sub> )	Contained U <sub>3</sub> O <sub>8</sub> (Mlbs)
Measured	3.1	0.110	7.6
Indicated	18.4	0.063	25.5
Inferred	30.9	0.057	38.5
<b>Total</b>	<b>52.4</b>	<b>0.062</b>	<b>71.6</b>

## ALTA MESA NI 43-101 MINERAL RESOURCE ESTIMATE (2023)

For the purposes of Listing Rule 5.12, Boss Energy cautions that the mineral resources for the Alta Mesa Project are not reported in accordance with the JORC Code. The mineral resource estimate at Alta Mesa is a foreign estimate prepared in accordance with Canadian National Instrument 43-101. A competent person has not done sufficient work to classify the foreign estimate as a mineral resource in accordance with the JORC Code, and it is uncertain whether further evaluation and exploration will result in an estimate reportable under the JORC Code.

### Foreign Resource Estimate

Please refer to Boss Energy's announcement to the ASX market announcements platform dated 6 December 2023 for additional technical information relating to the foreign resource estimate for the Alta Mesa Project. Boss Energy confirms it is not in possession of any new information or data relating to the foreign resource estimate that materially impacts on the reliability of the estimate or Boss Energy's ability to verify the foreign estimate as a mineral resource in accordance with the JORC Code. Boss Energy confirms that the supporting information provided in Boss Energy's announcement to the ASX market announcements platform on 6 December 2023 continues to apply and has not materially changed.

The information in this Presentation that relates to the foreign estimate for the Alta Mesa Project is based on information compiled by Mr Jason Cherry, and is an accurate representation of the available data and studies for the Alta Mesa Project.

Mr Cherry is a member of the Australian Institute of Geoscientists (**AIG**) and has sufficient experience that is 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 in the JORC 2012 edition of the "Australasian Code for Reporting of Mineral Resources and Ore Reserves". Mr Cherry has 17 years' experience and is a full-time employee as Geology Manager for Boss Energy Ltd. Mr Cherry consents to the inclusion in this Presentation of the matters based on this information in the form and context in which they appear.

	Resource Category	Tonnes ('000)	Grade (%U <sub>3</sub> O <sub>8</sub> )	Contained U <sub>3</sub> O <sub>8</sub> ('000 lbs)
Within existing wellfields	Measured	54	0.152	164
Alta Mesa	Indicated	1,397	0.106	2,959
Mesteña Grande	Indicated	119	0.120	287
<b>Total Measured &amp; Indicated Mineral Resources</b>		<b>1,570</b>	<b>0.109</b>	<b>3,410</b>
Alta Mesa	Inferred	1,263	0.126	3,192
Mesteña Grande	Inferred	5,733	0.119	13,601
<b>Total Inferred Mineral Resource</b>		<b>6,996</b>	<b>0.120</b>	<b>16,793<sup>1</sup></b>

Notes:

1 Reported on a 100% basis



It's all about timing.

# Strategic Horizons

Boss has delivered two producing mines and has a market capital growth of \$1.3B and zero debt

## Vision & Strategy

- Be Australia's Next Uranium Producer
- 10 year mine life +
- **2.5Mlb U<sub>3</sub>O<sub>8</sub> per annum production**
- 100Mlb exploration target
- Superior Total Shareholder Return, campaign style, fiscal discipline
- Solid relationships with key stakeholders, government, industry, investors, employees, traditional owners

## Foundation & Development

- **Proven Board & Management**
- Skilled, committed, stable wellfield, processing and exploration geology team
- **Proven chemistry** - Successful feasibility studies and Field Leach Trials
- Strategic inventory of 1.25Mlb U3O8 for working capital, competitive market terms
- **Self performing** Project and Construction team, engineering, procurement, construction and management

## Organic Growth

- Full pipeline of near-mine and regional exploration targets in South Australia
- **Honeymoon 72Mlbs U<sub>3</sub>O<sub>8</sub> JORC Resource**
- **Producing and receiving cash from sales**
- Highly successful exploration strategy, increasing JORC Resource from 16.57Mlbs to 71.67Mlbs (~4.3x)
- **Over 6,000 km<sup>2</sup> of prospective tenements in South Australia**
- Base Metal Joint Ventures

## Mergers & Acquisitions

- **Discipline First – value accretive M&A with Alta Mesa**
- **Tier 1 jurisdiction focus**, Australia, North America and Canada
- Focus on economic resources which can produce
- **ASX 200 and strong institutional support for Boss Energy strategy**
- Recognised global producer, a partner of choice for consolidation
- **BOSS IS OPEN FOR BUSINESS**

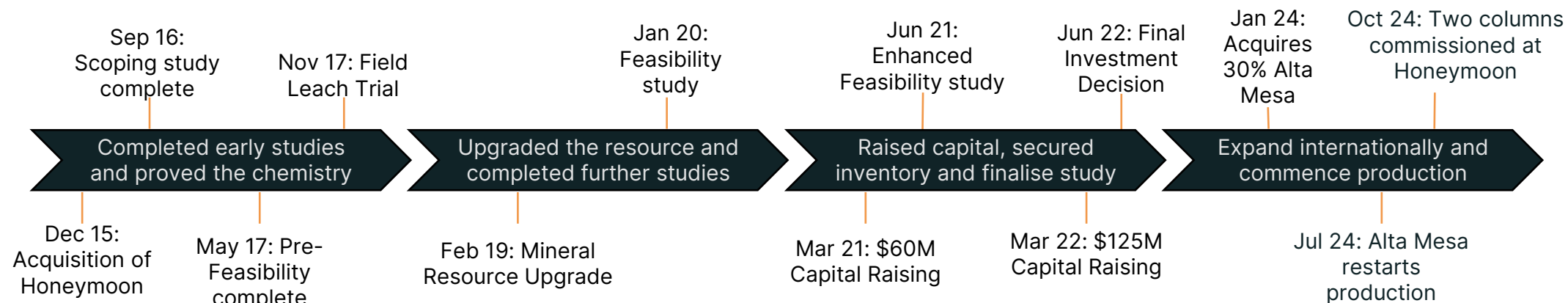




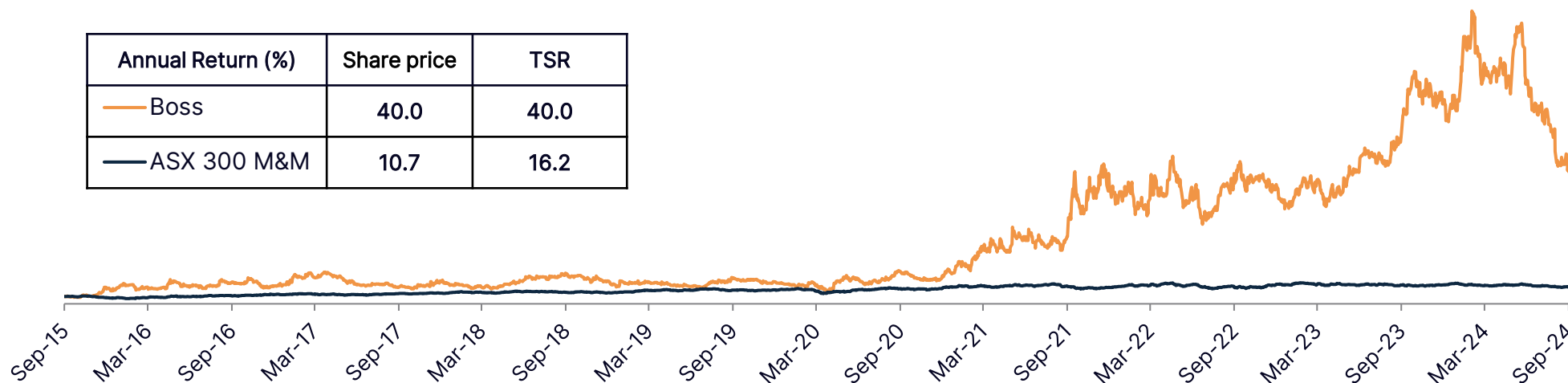
A disciplined approach to raising capital.

# Shareholder returns

Out of \$443 million raised, \$245 million remains in cash and liquid assets<sup>1</sup>



Annual Return (%)	Share price	TSR
— Boss	40.0	40.0
— ASX 300 M&M	10.7	16.2



Notes:

1. As at 30 September 2024

2. Chart shows share price performance indexed to 1 on 1 September 2015

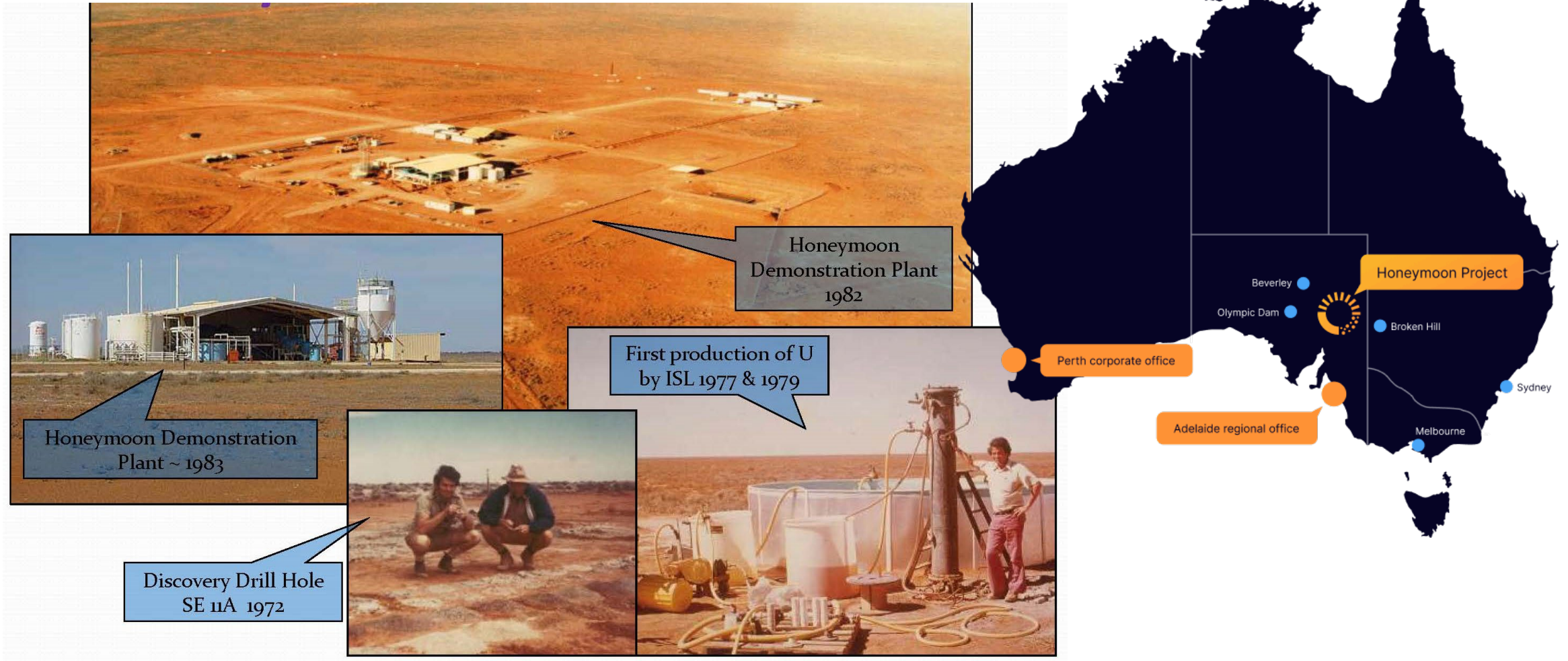
Source: Bloomberg



Building mines takes time....

Honeymoon took half a century from discovery to being a commercially viable mine...

# Honeymoon Uranium Mine History







An International multi-mine ISR producer in Two tier One locations

# Global Uranium Platform in Tier 1 Locations

Honeymoon (100% ownership)

2.45Mlbs  $U_3O_8$  p.a.

South Australia



Uranium friendly state

Production and Sales



On track for 850k lbs in FY25  
1<sup>st</sup> sales and cashflow in Q3  
CY24

Alta Mesa (30% ownership)

2Mlbs  $U_3O_8$  p.a.

Texas



Uranium friendly state

First shipment completed



October 2024

IX process scaling



Two NIMCIX columns have  
been commissioned with third  
expected by December 2025

Ramp up per schedule



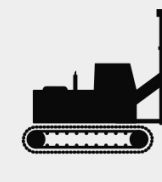
Ramp up to 2.45Mlb/annum  
proceeding to plan

Proven management team



Some of the most experienced  
ISR and IX operators in the USA

Exceptional drilling results



Significantly exceeds the cutoff  
grade required for ISR



# Honeymoon Uranium mine site overview



Water Treatment Plant

Production Well Fields

Drying Circuit

Ion Exchange



## RO and Water Treatment Plant

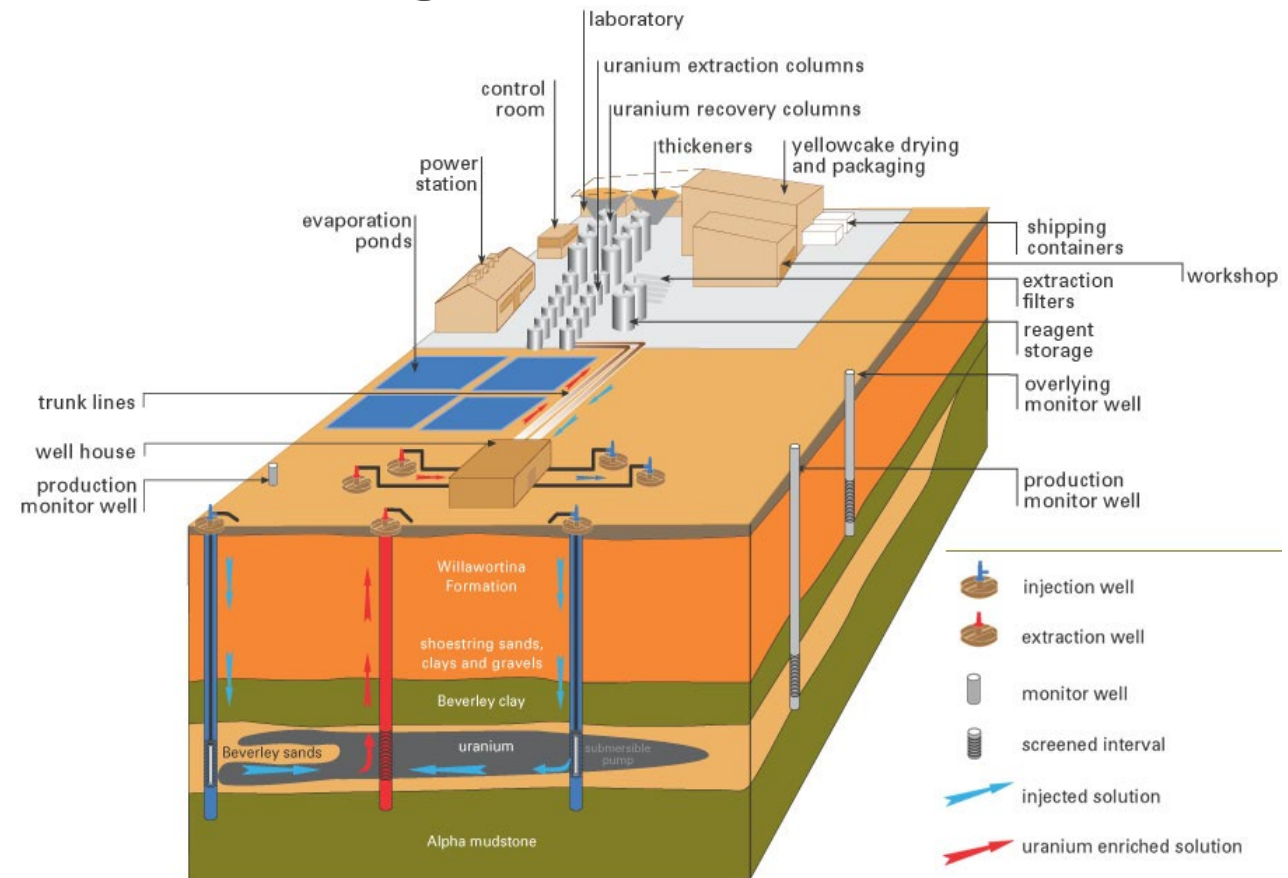




ISR is a proven cost-effective uranium extraction process with reduced environmental impact relative to traditional mining

# In-Situ Recovery (ISR) Mining

- ISR accounts for ~ 60% global uranium mined, used in Australia, Kazakhstan, USA
- ESG friendly mining method - unlike conventional mining, temporary ground disturbance, no ground excavations, not tailings, minimal dust and less water consumption
- Barren leach liquor is injected through the uranium hosted ore body, to recover high grade pregnant liquor solution by production wells and pumped to the surface.
- Uranium is then extracted using ion exchange, precipitated out and dried to produce  $U_3O_8$ .
- ~ 2/3 the cost of conventional mining and average CAPEX less than 15% of conventional mines



Source: United States Nuclear Regulatory Commissions ([www.nrc.gov](http://www.nrc.gov)) (1) World Nuclear Association – World Mining Uranium Production (December 2020) (2) TradeTech – The Nuclear Review (October 2016)

Example Schematic (Source: Beverley Environmental Impact Statement (1998))





Wellfield Development



First two wellfields have been commissioned





## Barren Leach Solution / Pregnant Leach Solution Ponds







Boss owned 400T crane removing redundant Solvent Extraction pulse columns





First NIMCIX elution column entering Honeymoon uranium mine site



## Pouring Concrete for New IX columns

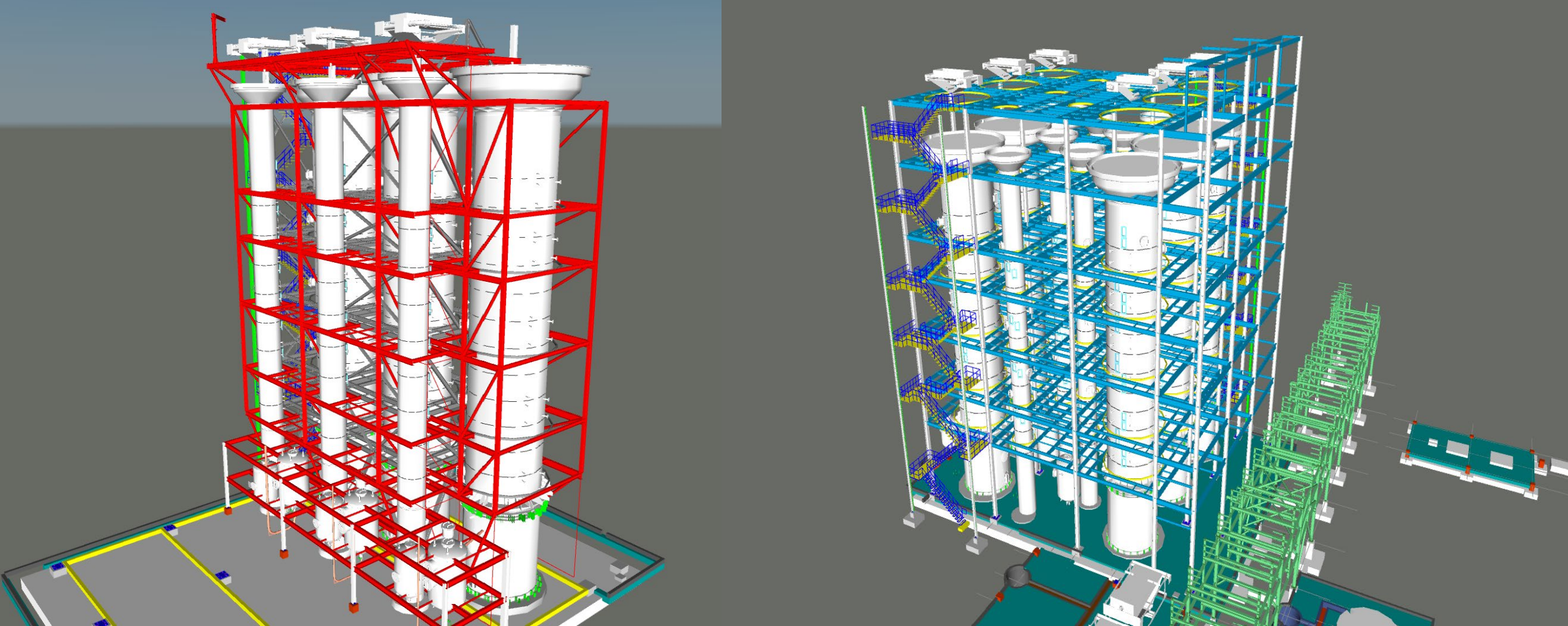




First two columns have been commissioned. Third column commissioned by December 2024







- Each NIMCIX column contributes 35-45,000 lbs  $\text{U}_3\text{O}_8$  per month
- Annualised basis each columns contributes 420-540,000 lbs  $\text{U}_3\text{O}_8$
- Finer details are set out in the published Feasibility Studies



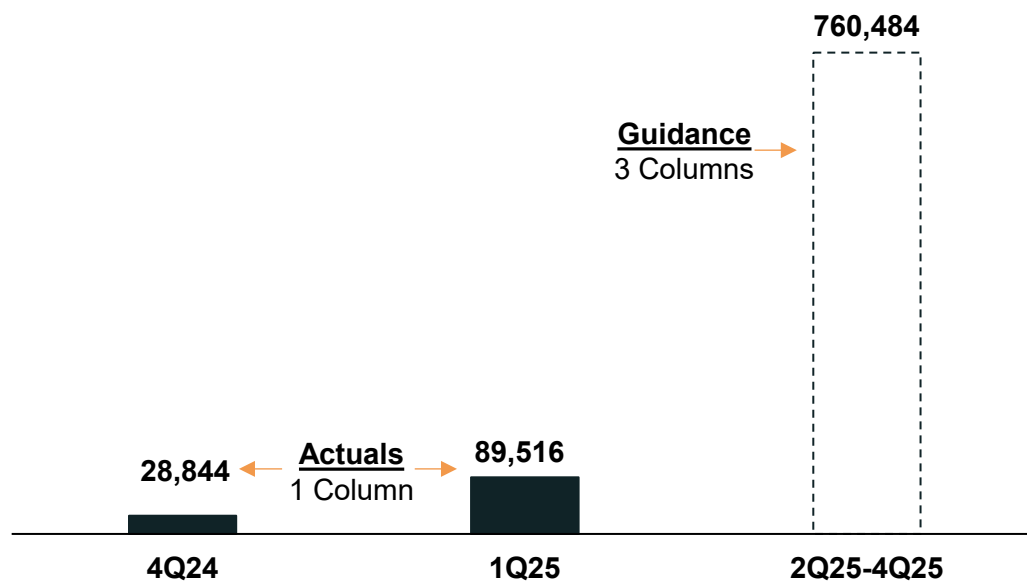


Honeymoon continues to ramp-up in line with EFS forecasts

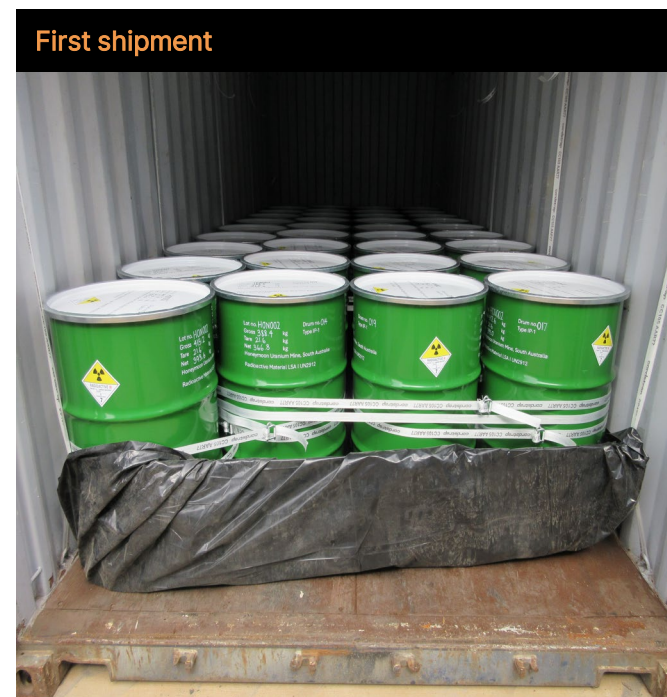
# Production ramp-up

- On track to produce 850k  $U_3O_8$  in FY25
- Column two is commissioned and column three expected by December 2024
- Parallel construction and production enables earlier production shipments and sales
- Cost guidance to be provided once columns two and three are operating

Honeymoon  $U_3O_8$  Production ramp up (lbs)



First shipment







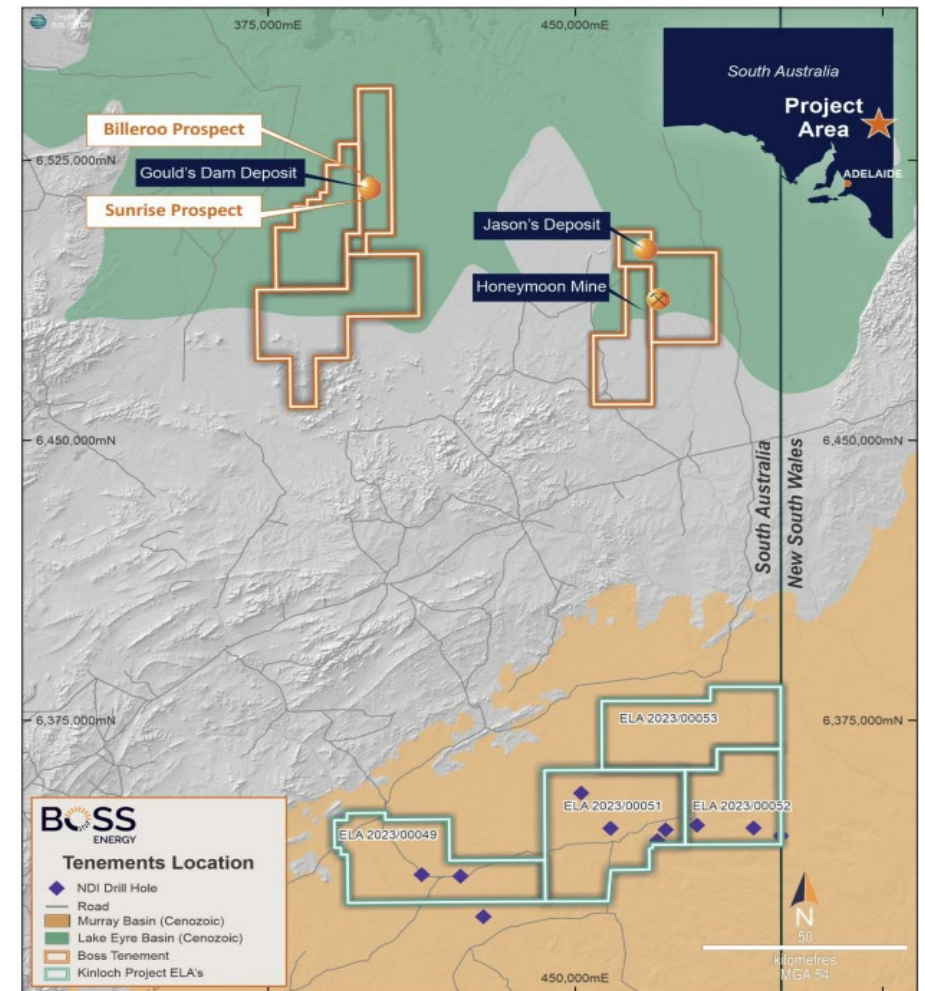
Mining Licence of 36Mlb with a further defined 36Mlbs to be licenced  
Substantial Exploration Target of 58Mlbs to 190Mlbs at grades up to 1,080ppm  $U_3O_8$ <sup>1</sup>

# Honeymoon Exploration Potential

- In addition to the JORC Resource of 71.6Mlb, Honeymoon has a substantial Exploration Target<sup>1</sup> of 58Mlbs to 190Mlbs at grades up to 1,080ppm  $U_3O_8$
- Following strong infill drilling results Boss is undertaking technical and economic studies on developing the satellite deposits as an additional production source, ~36Mlb  $U_3O_8$  indicated and inferred resource
- Boss awarded Kinloch Project exploration tenements ~130km south of Honeymoon. Also recently awarded three highly prospective exploration tenements on the Eyre Peninsula in South Australia
- Boss now has a total uranium exploration tenement package of over 6,000 km<sup>2</sup> in South Australia
- Joint Venture with First Quantum TSX: FM for earn-in arrangement for discovery of copper
- Boss' exploration strategy has already been highly successful, increasing the JORC Resource at Honeymoon from 16.57Mlbs to 71.67Mlbs (~4.3x) since project acquisition in December 2015

#### Notes:

1. Refer ASX announcement 25 March 2019. The potential quantity and grade of the Exploration Target is conceptual in nature. There has been insufficient exploration to estimate a Mineral Resource and it is uncertain whether future exploration will result in the definition of a Mineral Resource. Please refer to the cautionary statement and accompanying resource table in Slide 4 for further information.





High grade ISR project in a Tier 1 jurisdiction with significant potential for growth

# Alta Mesa ISR Uranium project

- Located in South Texas – a prolific US district for sandstone-hosted ISR production with historic production of ~80Mlb<sup>1</sup>
- Most progressive permitting production jurisdiction in the US
- Historically has produced the third largest amount of uranium out of all ISR assets in the US, producing 4.6Mlb between 2005 and 2013 through ISR mining with an alkaline lixiviant<sup>1</sup>
- Existing 20Mlb total high-grade resource of 1,200 ppm<sup>2</sup>
- 1.5Mlb plant capacity with a simple path to expand capacity using existing licences and drying capacity of 2Mlb

## ALTA MESA HISTORICAL PRODUCTION REFERENCE POINTS

Production reference points <sup>3</sup>	
Average production between 2005 and 2013	0.58Mlb
Maximum yearly production between 2005 and 2013	1.07Mlb
Licensed processing capacity	1.5Mlb

Notes:

1. enCore Energy November 2023 Corporate Presentation
2. Please refer to the cautionary statement and accompanying resource table in Slide 4 for further information.
3. Technical Report Summary for the Alta Mesa Uranium Project, Brooks and Jim Hogg Counties, Texas, USA National Instrument 43-101, Technical Report 2023, BRS Engineering, using mid-point



Alta Mesa Processing Facility

## ALTA MESA NI 43-101 MINERAL RESOURCE ESTIMATE (2023)

	Resource Category	Tonnes ('000)	Grade (%U <sub>3</sub> O <sub>8</sub> )	Contained U <sub>3</sub> O <sub>8</sub> ('000 lbs)
Within existing wellfields	Measured	54	0.152	164
Alta Mesa	Indicated	1,397	0.106	2,959
Mestena Grande	Indicated	119	0.120	287
<b>Total M&amp;I Mineral Resources</b>		<b>1,570</b>	<b>0.109</b>	<b>3,410</b>
Alta Mesa	Inferred	1,263	0.126	3,192
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<b>Total Inferred Mineral Resource</b>		<b>6,996</b>	<b>0.120</b>	<b>16,793</b>





Partnership able to leverage the combined experience in development, commissioning and operating mining projects globally

# Leading Development and Operating Experience

## BOSS ENERGY

### Wyatt Buck (Chair)

- GM of McArthur River Uranium Mine
- GM Key Lake Mill, the largest uranium mining operation in the world.
- Executive GM for all of First Quantum's global assets

### Duncan Craib (CEO and MD)

- Finance Director for construction and commissioning of Husab uranium mine in Namibia.
- CFO for Kalahari Minerals plc and its 43% interest in Extract Resources Ltd.
- MCA Uranium Forum Chair since 2021

### Jan Honeyman (NED)

- First Quantum Director of Human Resources (across all operations)
- KBR Energy, Global Director, Talent Management

### Bryn Jones (NED)

- COO Laramide, (New Mexico and Queensland assets uranium assets)
- Manager technical services Heathgate Resources
- Worley-SNC Lavelin JV Uranium Lead for the Olympic Dam Expansion Project

### Jon Owen (Project Manager)

- First Quantum Project Manager for Sentinel copper mine in Zambia
- Construction and commissioning of Cobre Panama copper/gold processing plant

### Sashi Davies (Sales and Strategic Advisor)

- Vice Chair World Nuclear Fuel Market
- Previously General Manager of CGN Global Uranium Ltd
- Previously Head of Marketing for Extract Resources (Husab mine in Namibia)

## ENCORE ENERGY

### Bill Sheriff (Founder and Exec Chair) –

- Founder and Chair of Energy Metals Corp
- Responsible for compiling largest domestic uranium resource base in US history prior to acquisition by Uranium One Corp

### Paul Goranson (Director & CEO)

- COO of Energy Fuels - Alta Mesa and Nichols Ranch
- President, COO and Director Uranerz - Nichols Ranch ISR Uranium Project
- President, Cameco Resources
- Vice President of Mestefia Uranium LLC
- Previous President of the Uranium Producers of America

### Dennis Stover (Director & Chief Technical Officer)

- Leading expert in ISR recovery focussed on US production
- Independent ISR consultant for Honeymoon
- Previous CEO enCore
- Executive Vice President, Americas for Uranium One, Inc overseeing development of Uranium One's assets in the US

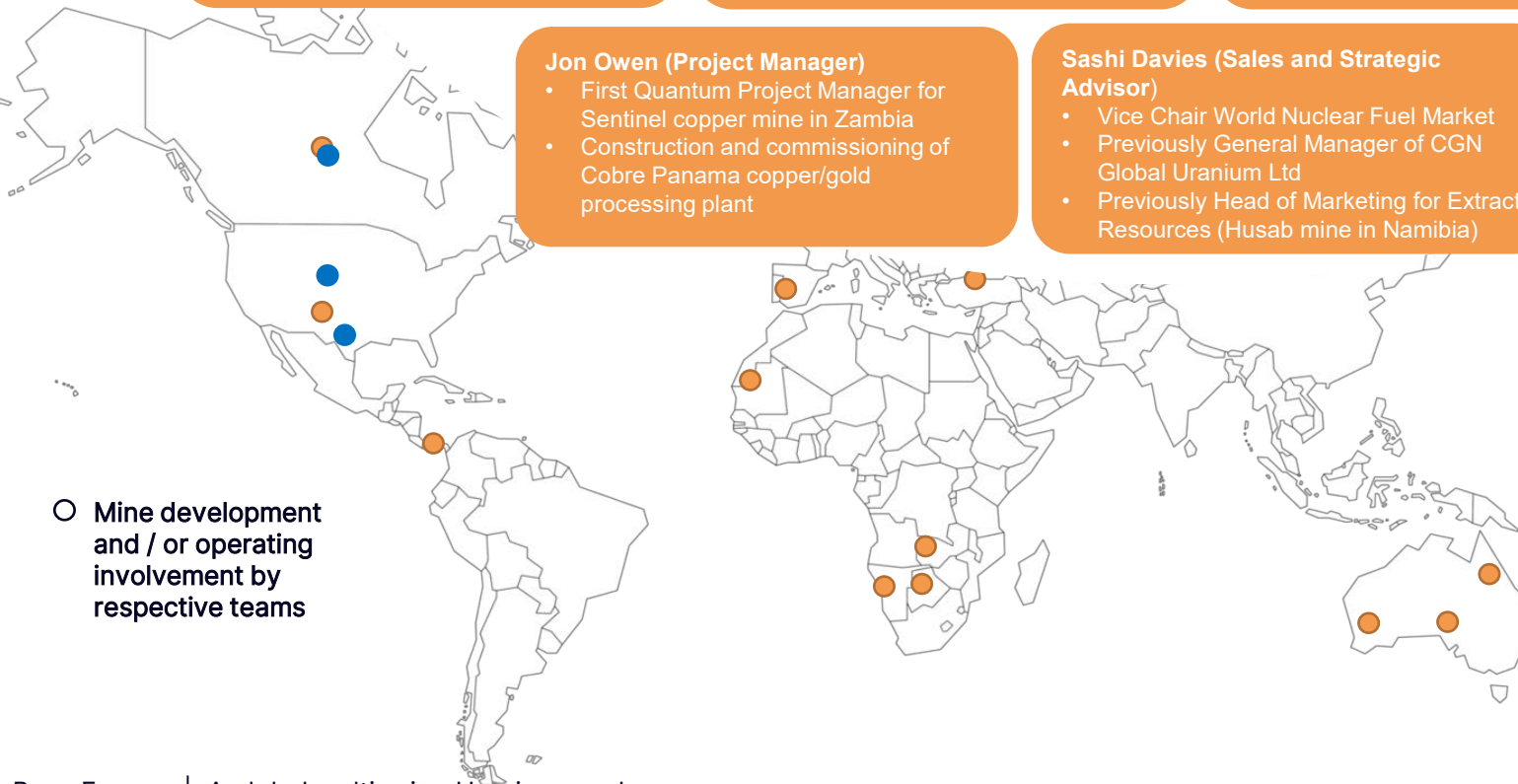
### Susan Hoxie-Key (Director)

- Chairwoman of the World Nuclear Fuel Market
- Lead Nuclear Engineer Southern Nuclear Operating Company

### Peter Luthiger (COO)

- Managed the Alta Mesa ISR project during its period of production

○ Mine development and / or operating involvement by respective teams







# Contracting activity & strategy

Boss has entered into binding sales agreement to sell 3.5Mlbs  $U_3O_8$  to major European / US power utilities over 8yrs from 2024 to 2033

Exposure to price increases supported by ~\$245m in liquid assets and no debt<sup>1</sup>

Strategic inventory plus diversity of supply with no jurisdiction risk

Uranium prices have never been this high at the start of a contracting cycle



Alta Mesa Central Processing Plant, Texas, USA



Honeymoon Processing Plant and Wellfields, South Australia

## Flexibility

- Strategically retain exposure to spot price and market upside
- Strong Balance Sheet has provided Boss flexibility to enter into contracts when it wants to

## Strong Relationships

- In constant discussions with major global utilities
- Boss seen as strong counterparty given strategic inventory and diversity of supply with no jurisdiction risk

## Significant upside

- First production timed with strong market fundamentals
- Additional contracts will be layered into a rising market
- Boss upside remains significant as term prices continue to rise

Notes

1. As at 30 September 2024





Uranium prices are trading at 16-year highs ~ Term US\$83/ lb U<sub>3</sub>O<sub>8</sub> and Spot ~ US\$ 83/ lb U<sub>3</sub>O<sub>8</sub> price (Source: TradeTech, LLC ([www.uranium.info](http://www.uranium.info)))

# 4 Key Uranium Industry Considerations

01

**Supply is tight**

Supply to 2030 is tight across the cycle, and if Russia cuts supply to the US in response to US sanctions on Russian supply this would put immediate upward pressure on price

02

**Kazakh supply limited**

Supply from Kazakhstan will be more limited to the west as Russia and China take more supply from this area and until sulphuric acid shortages are resolved

03

**Rising long term price**

Spot pricing reflects discretionary buying while the rising term price is an indicator of increasing concern about the supply deficit

04

**New markets for nuclear**

Demand for reliable clean energy is creating new markets for nuclear generation as a source of supply for data centres. Data centre electricity usage, according to new IEA report, to increase from 460 terawatt-hours (TWh) worldwide in 2022 to 1,000 TWh in 2026. This is approximate to the electricity consumption of Japan



## Inclement Weather Event







# Key Milestones Achieved ~ from 2015 until today

Milestone	Date	Status
Acquisition of Honeymoon Uranium Mine - global resources of 16.6Mlb U <sub>3</sub> O <sub>8</sub>	Dec 2015	✓
Scoping study confirms low capital requirements and operating costs	Sept 2016	✓
Pre-Feasibility Study confirms significant potential for economic upside with resource expansion	May 2017	✓
Field Leach Trial - improved leach chemistry derives historic high tenors (>80mg/L U <sub>3</sub> O <sub>8</sub> ) Ion Exchange process successfully proved with excellent performance of selected resins	Nov 2017	✓
Boss acquires remaining 20% of Honeymoon project - <b>100% ownership</b>	Mar 2018	✓
Native Title competing claims resolved	Dec 2018	✓
Mineral Resource upgrade - global resource upgrade to 71.6Mlb U <sub>3</sub> O <sub>8</sub>	Feb 2019	✓
Australian Government renews Honeymoon's Export Permit for 3.3Mlb p.a. U <sub>3</sub> O <sub>8</sub>	Apr 2019	✓
Feasibility Study confirms Honeymoon as Australia's next Uranium Producer with global first mover advantage	Jan 2020	✓
Comprehensive geological review of historic database while site activities were restricted due to COVID-19	2020-2021	✓
\$60M Capital Raising - acquisition of 1.25Mlb U <sub>3</sub> O <sub>8</sub> strategic inventory	Mar 2021	✓
Enhanced Feasibility Study - incorporating NIMCIX Ion Exchange columns, 2.45Mlbs	Jun 2021	✓
\$125M Capital Raising - to fully fund development of the Honeymoon project	Mar 2022	✓
Front End Engineering Design completed	March 2022	✓
Final Investment Decision to restart Honeymoon Uranium Mine	June 2022	✓
Boss acquires Alta Mesa Mine	Jan 2024	✓
Honeymoon's Mine restart of production	April 2024	✓
Alta Mesa Mine restart of production	July 2024	✓





# Annual General Meeting 2024

Keep in touch

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ASX: BOE | OTCQX: BQSSF