

ANNUAL GENERAL MEETING

THUNDERBIRD IS GO

BRUCE GRIFFIN
EXECUTIVE CHAIR

November 2022

ASX: SFX

www.sheffieldresources.com.au



SheffieldResources
LIMITED



NOTICE AND DISCLAIMER

IMPORTANT: You must read the following in conjunction with this document.

Summary information in relation to Sheffield

This document contains summary information about Sheffield Resources Limited (ACN 125 811 083) (Company or Sheffield), its subsidiaries and their activities which is current as at the date of this document, unless otherwise indicated. The information in this document remains subject to change without notice, and Sheffield is not responsible for updating, nor does it undertake to update, it. This document should be read in conjunction with Sheffield's periodic and continuous disclosure announcements lodged with the Australian Securities Exchange (ASX), which are available at <http://www.sheffieldresources.com.au/irm/content/asx-announcements1.aspx?RID=398> or www.asx.com.au, including and in particular the "Kimberley Mineral Sands Bankable Feasibility Study", "Thunderbird BFS, Financing and Project Update", "Thunderbird Final Investment Decision" and "Final Investment Decision – Presentation" announcements (the "Primary Announcements") which set out the relevant assumptions, key risks and other information to consider when assessing information contained in this document. The Company confirms that all material assumptions underpinning any production target and any forecast financial information derived from any production target that is disclosed in this announcement continue to apply and have not materially changed. The Company confirms that the form and context of the Competent Person's findings are presented and have not been materially modified from the original market announcements

Industry data

Certain market and industry data used in connection with or referenced in this document, including in relation to other companies in Sheffield's peer group, may have been obtained from public filings, research, surveys or studies made or conducted by third parties, including as published in industry-specific or general publications. Neither Sheffield or their respective representatives have independently verified any such market or industry data.

Compliance Statements

Information and documentation which forms the basis of the Primary Announcements and related information in this document in relation to Mineral Resources, Ore Reserves and metallurgy and process design has previously been reported as detailed below. The Company confirms that it is not aware of any new information or data that materially affects the information included in the relevant market announcements and, in the case of the 24 September 2019 Thunderbird Mineral Resource and Ore Reserve Statement, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. The Company confirms that all material assumptions underpinning any production target and any forecast financial information derived from any production target that is disclosed in this announcement continue to apply and have not materially changed. The Company confirms that the form and context of the Competent Person's findings are presented and have not been materially modified from the original market announcements.

Not financial product advice

This document does not constitute, and is not intended to constitute, investment or financial product advice (nor tax, accounting or legal advice). This document should not be relied upon as advice to investors or potential investors and has been prepared without taking account of any person's individual investment objectives, financial situation or particular needs. Any investment decision should be made based solely upon appropriate due diligence.

Financial data

A number of figures, amounts, percentages, estimates, calculations of value and fractions in this document are subject to the effect of rounding. Accordingly, the actual calculation of these figures may differ from the figures set out in this document. All currency amounts are in Australian Dollars (\$) or A\$) unless otherwise stated.

Future performance, forward-looking statements and key risks

This document contains certain "forward-looking statements". Forward-looking statements can generally be identified by the use of forward looking words such as "forecast", "likely", "believe", "future", "project", "opinion", "guidance", "should", "could", "target", "propose", "to be", "foresee", "aim", "may", "will", "expect", "intend", "plan", "estimate", "anticipate", "continue", "indicative" and "guidance", and other similar words and expressions, which may include, without limitation, statements regarding plans, strategies and objectives of management, anticipated production dates, expected costs or production outputs for the Company, based on (among other things) its estimates of future production of the Thunderbird Project and the future operation of Sheffield and the Thunderbird Project.

To the extent that this document contains forward-looking information (including forward-looking statements, opinions or estimates), the forward-looking information is subject to a number of risk factors, including those generally associated with the mineral sands industry. Any such forward-looking statement also inherently involves known and unknown risks, uncertainties and other factors that may cause actual results, performance and achievements to be materially greater or less than estimated. These factors may include, but are not limited to, changes in commodity prices, foreign exchange fluctuations, general economic and share market 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), changes to the regulatory framework within which the Company operates or may in the future operate, environmental conditions including extreme weather conditions, geological and geotechnical events, and environmental issues, and the recruitment and retention of key personnel.

Estimates of Mineral Resources and Ore Reserves and Exploration Results

This document and the Primary Announcements contain estimates of Ore Reserves and Mineral Resources and information that relates to exploration results.

The Mineral Resources and Ore Reserves have been extracted from Sheffield's ASX releases;

"THUNDERBIRD ORE RESERVE UPDATE" 24 March 2022

"MINERAL RESOURCE AND ORE RESERVE STATEMENT" 24 September 2019

"SHEFFIELD DOUBLES MEASURED MINERAL RESOURCE AT THUNDERBIRD" 5 July 2016

"THUNDERBIRD ORE RESERVE UPDATE" 31 July 2019

"HIGH GRADE MAIDEN MINERAL RESOURCE AT NIGHT TRAIN" 31 January 2019

"THUNDERBIRD ORE RESERVE UPDATE" 16 March 2017

The exploration results have been extracted from Sheffield's ASX releases;

"NEW LARGE HIGH GRADE DISCOVERY SOUTH OF THUNDERBIRD" 13 November 2018

"EXCEPTIONAL RESULTS CONFIRM MAJOR DISCOVERY AT NIGHT TRAIN" 9 October 2018

A copy of these announcements is available at <http://www.sheffieldresources.com.au/irm/content/asx-announcements1.aspx?RID=398> or www.asx.com.au

Bankable Feasibility Study ("BFS")

This document contains information that relates to a Bankable Feasibility Study. This information was extracted from the following ASX releases by Sheffield:

"THUNDERBIRD BFS RESULTS, FINANCING AND PROJECT UPDATE" dated 24 March 2022

"KMS BANKABLE FEASIBILITY STUDY PRESENTATION" 24 March 2022

"THUNDERBIRD BFS DELIVERS OUTSTANDING RESULTS" 24 March, 2017

"BFS UPDATE MATERIALLY IMPROVES PROJECT ECONOMICS" 31 July 2019

Other Extracted Information

In addition to those ASX releases referred to above, this document contains information extracted from the following ASX releases:

"THUNDERBIRD CONSTRUCTION OVER 50% COMPLETE" 9 November 2022

"THUNDERBIRD FINAL INVESTMENT DECISION" 7 October 2022

"QUARTERLY ACTIVITIES REPORT" and "APPENDIX 5B CASHFLOW REPORT" 17 October 2022

"FINAL INVESTMENT DECISION – ADDENDUM TO PRESENTATION" 10 October 2022

"BINDING US\$110M ORION LOAN FACILITY EXECUTED" 3 October 2022

"EXECUTION OF A\$160M NAIF LOAN FACILITY AGREEMENT" 8 August 2022

"BINDING OFFTAKE SECURED FOR THUNDERBIRD ZIRCON CONCENTRATE" 8 June 2021

"JOINT VENTURE COMPLETION AND BOARD RESTRUCTURE" 12 March 2021

"SHEFFIELD AND YANSTEEL EXECUTE BINDING JV AGREEMENTS" 6 January 2021

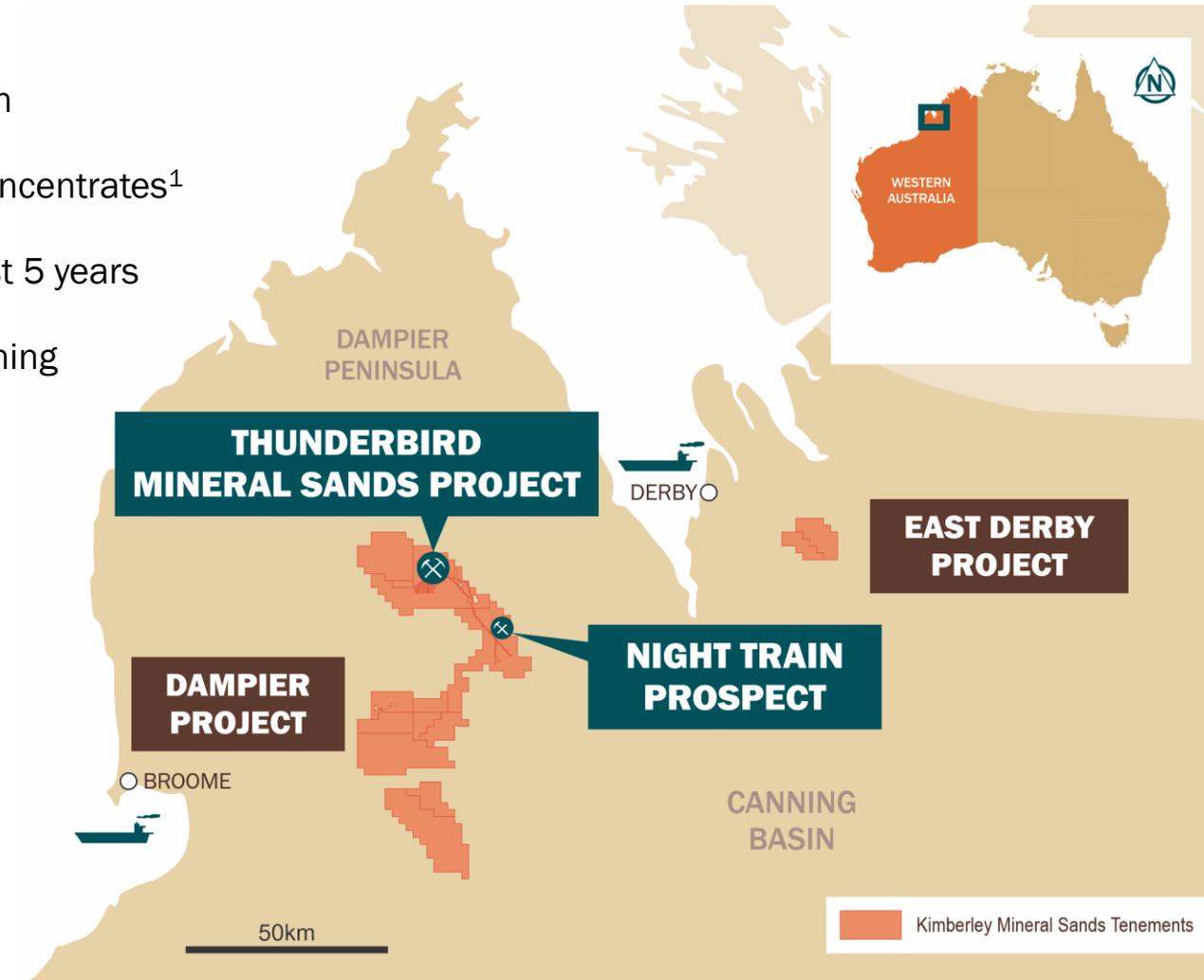
"TRANSFORMATIONAL THUNDERBIRD JOINT VENTURE" 11 August 2020

"MINING LEASE GRANTED OVER THUNDERBIRD MINERAL SANDS PROJECT" 26 September 2018

"FEDERAL ENVIRONMENTAL APPROVAL GRANTED FOR THUNDERBIRD" 28 September 2018

THUNDERBIRD MINERAL SANDS PROJECT

- 50/50 JV with Yansteel
- World's largest high grade zircon reserve, in a low risk jurisdiction
- Stage 1 Production targeting 1.1mt of zircon and ilmenite rich concentrates¹
- Offtake agreements in place for ~80% of Stage 1 revenue for first 5 years
- Yansteel plant construction complete, testing prior to commissioning
- Stage 1 fully funded and construction 53% complete²
- SFX trading at deep discount to asset value
 - ▶ Post Tax NPV₈ \$1.39Bn (A\$695 million SFX 50% share)
 - ▶ Post Tax IRR 26.6%
- First product shipment expected in **Q1 2024**

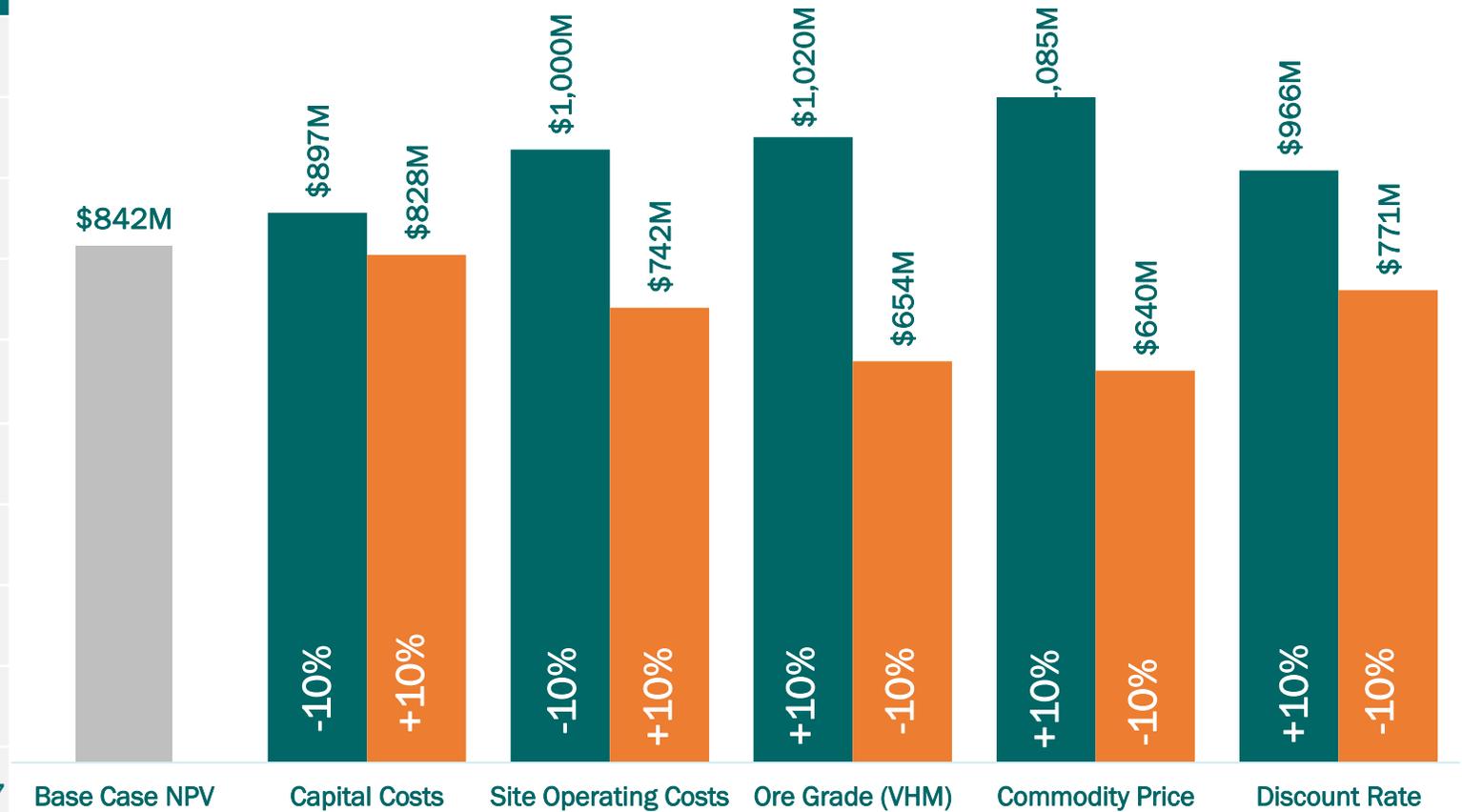


1. ASX Announcement "Thunderbird BFS Results, Financing and Project Update" 24 March 2022

2. Project progress as at 31 October 2022

COMPELLING ECONOMICS FOR STAGE 1 STANDALONE AND STAGE 1&2

Metric	Stage 1 & 2 ¹	Stage 1
NPV ₈ post-tax	A\$1.39B	A\$842m
IRR post-tax	26.6%	26.6%
Revenue to Cost Ratio (first 10 yrs)	2.5	2.3
Project Capital	A\$379m	A\$379m
Total Funding Requirement	A\$484m	A\$484m
Process rate (tonnes p/hour)	1,085	1,085
Production (kt pa all products) ²	1,365	913
Mine Life	36 years	33 years
LT Average FX (A\$/US\$) ³	0.75	0.75
Long Term Zircon Price – FOB (TZMI) ⁴	US\$1,607	US\$1,607

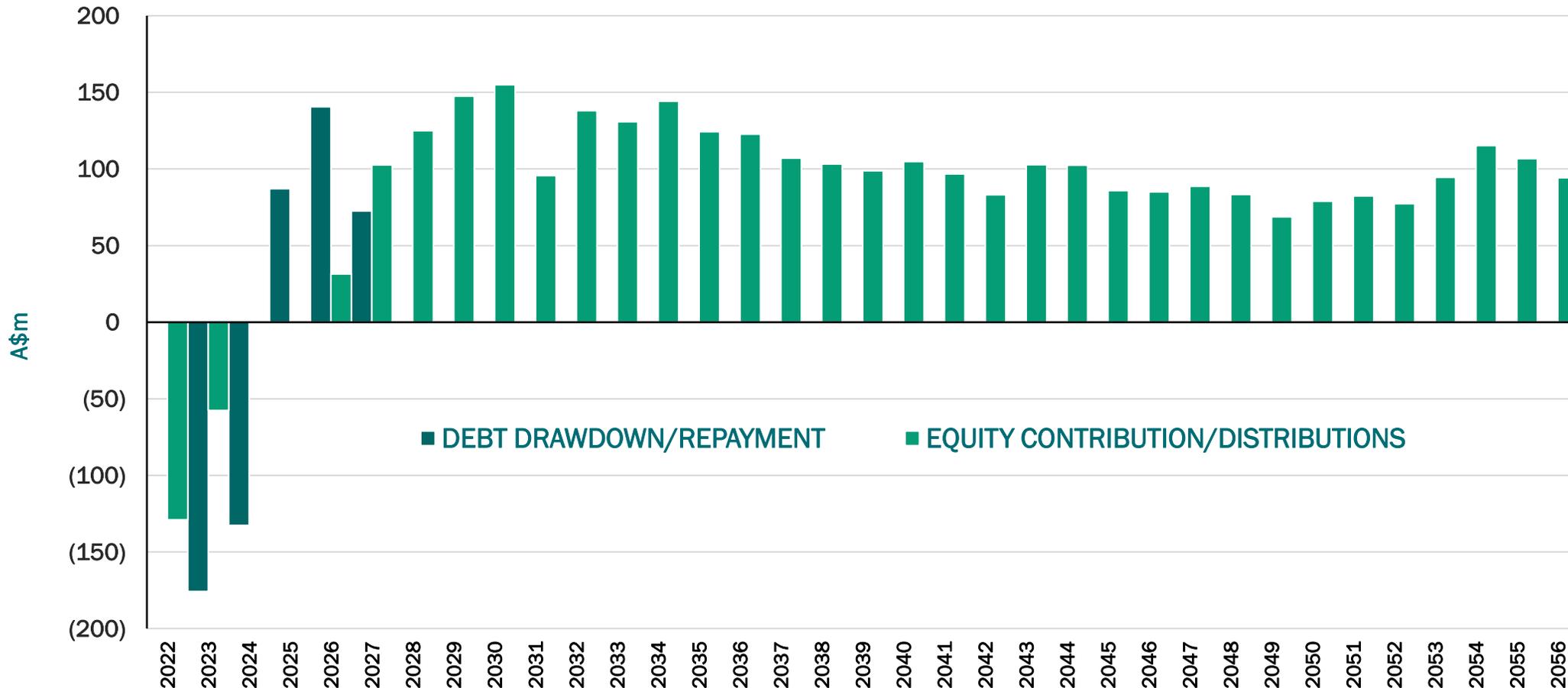


Reference:

1. ASX Announcement: "Thunderbird Final Investment Decision" 7 October 2022
2. Annual average Life of Mine production
3. 2022 FID assumes 0.71:1.00 AUD:USD for 2023, increasing to 0.75:1.00 by 2025
4. 2022 BFS real 2020, 2022 FID real 2021

KIMBERLEY MINERAL SANDS - SHAREHOLDER DISTRIBUTION (STAGE 1 ONLY)

- Cash distributions to KMS shareholders forecast to commence in FY2026
- 100% of debt forecast to be repaid during FY2027



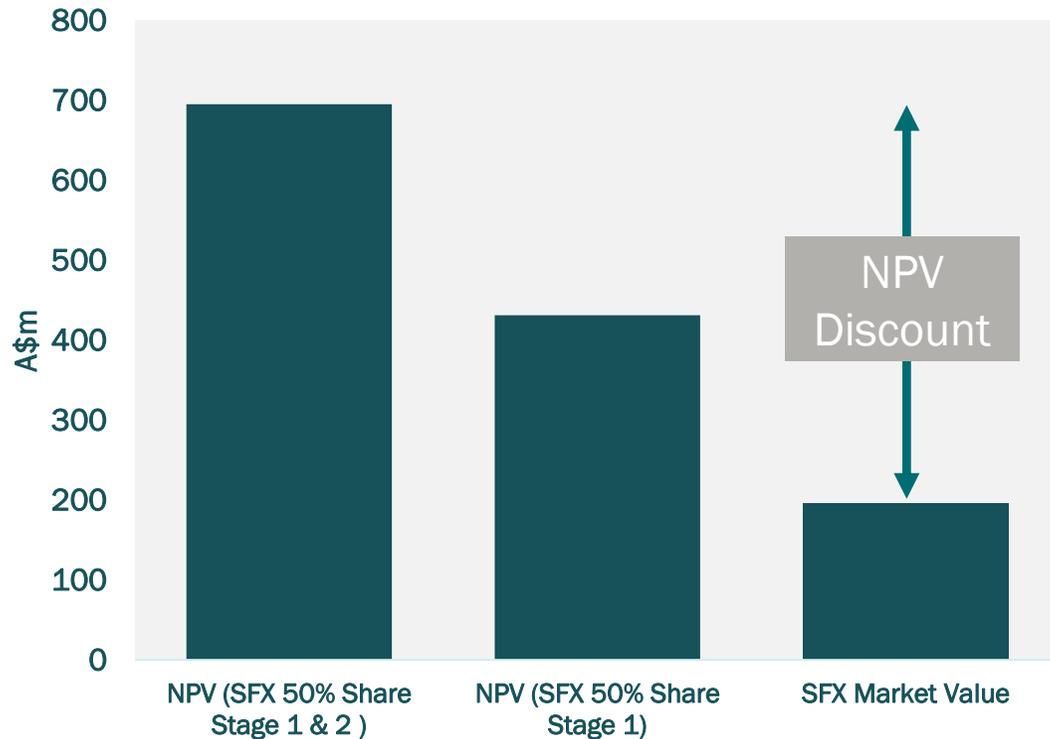
Reference:

1. ASX Announcement: "Thunderbird Final Investment Decision" 7 October 2022
2. Forecast based upon TZMI base case commodity pricing

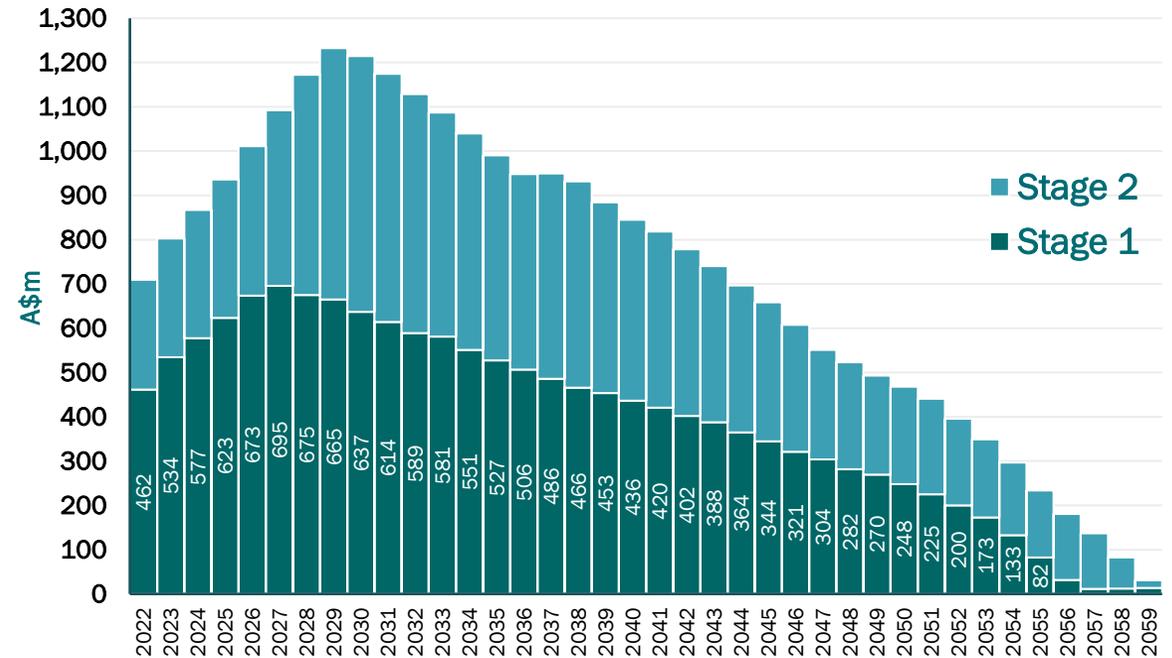
DEEP DISCOUNT TO ASSET VALUE

>70% discount to Sheffield NPV share of Stage 1&2 and >50% discount to Stage 1 NPV share despite:

- Low risk jurisdiction
- ~12 months to Stage 1 production; >50% construction is complete
- Fully funded with \$484m of capital, in a low risk jurisdiction



NPV of forecast Sheffield cash dividends from KMS peaks at \$1.2B from 2028 to 2031 and remains above \$0.5B until 2048



1. Based upon ASX market price of Sheffield Resources as at 14 November 2022 and sourced from ASX market based data and reports published by Sheffield Resources Limited

THUNDERBIRD CONSTRUCTION OVER 50% COMPLETE

DRY SEASON 2021 – ROAD, VILLAGE AND PROCESS SITE CLEARING



Thunderbird Access Road



Thunderbird Accommodation Village

THUNDERBIRD CONSTRUCTION OVER 50% COMPLETE

APRIL 2022 – VILLAGE AND EPC CONTRACTOR MOBILISED TO SITE



Thunderbird Process Plant Foundation Preparation



Thunderbird Accommodation Village

THUNDERBIRD CONSTRUCTION OVER 50% COMPLETE

MAY 2022 – PROCESS PLANT EARTHWORKS AND VILLAGE



Thunderbird Process Plant Earthworks



Thunderbird Accommodation Village

THUNDERBIRD CONSTRUCTION OVER 50% COMPLETE

JUNE 2022 - PROCESS PLANT CONCRETE FOUNDATIONS



Thunderbird Concrete Batch Plant and Process Plant Site



Thunderbird WCP Concrete Works

THUNDERBIRD CONSTRUCTION OVER 50% COMPLETE

JULY 2022 – PROCESS PLANT, BOREFIELD AND TAILINGS STORAGE FACILITY (TSF)



Thunderbird Process Plant Concrete Works



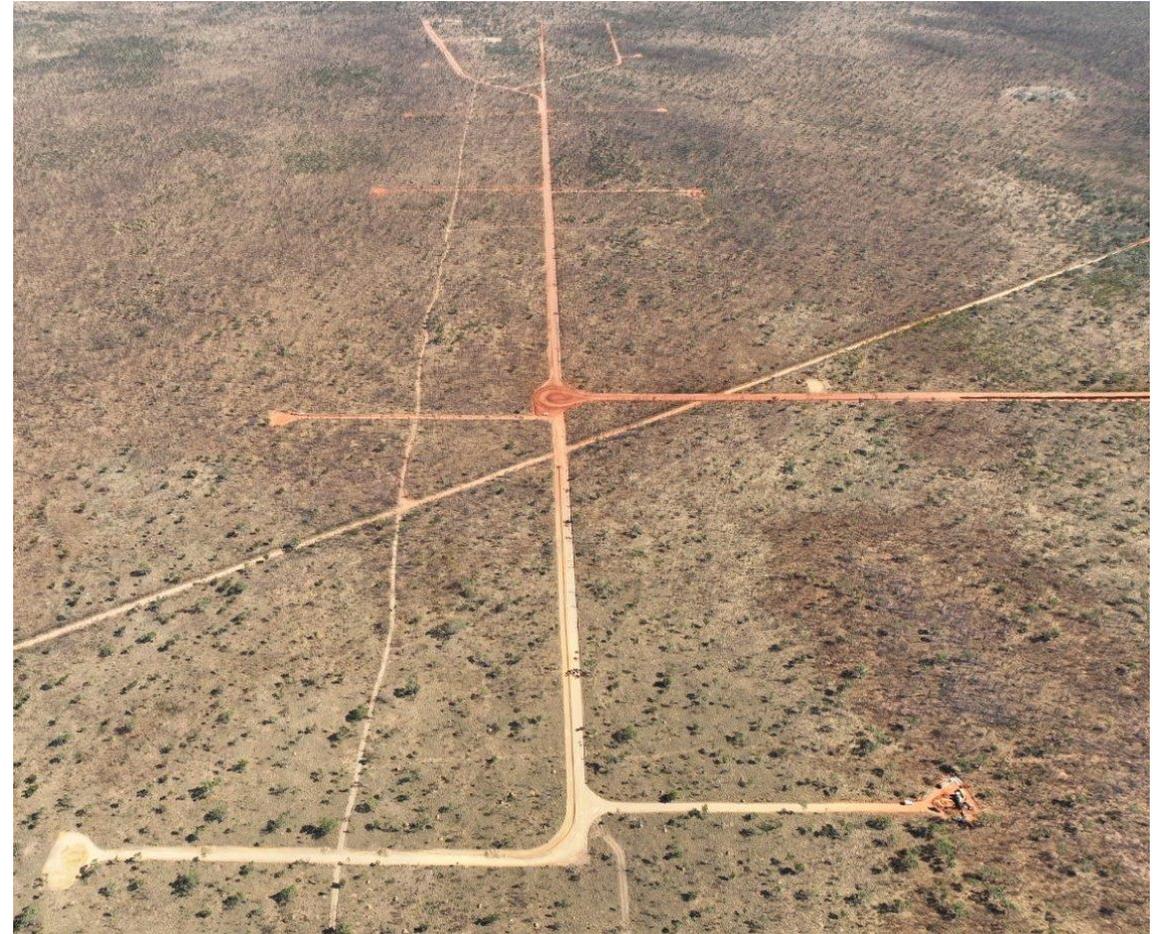
Clearing of Thunderbird TSF

THUNDERBIRD CONSTRUCTION OVER 50% COMPLETE

AUGUST 2022 – PROCESS PLANT, BOREFIELD AND TSF



Thunderbird Process Plant



Thunderbird Borefield

THUNDERBIRD CONSTRUCTION OVER 50% COMPLETE

SEPTEMBER 2022 - PROCESS PLANT, POWER/LNG, AND TSF



Thunderbird Process Plant



Thunderbird LNG and Power Station Pads

THUNDERBIRD CONSTRUCTION OVER 50% COMPLETE

OCTOBER 2022 - PROCESS PLANT, POWER/LNG, AND TSF



Thunderbird Process Plant



Thunderbird TSF

THUNDERBIRD CONSTRUCTION OVER 50% COMPLETE

NOVEMBER 2022 – PROCESS PLANT, LONG LEAD ITEMS ON SITE, TSF



Thunderbird Process Plant Steel Structure Installation



Thunderbird Plant Spirals on site

LEVERAGING YANSTEEL DOWNSTREAM CAPABILITY

- Thunderbird is a 50/50 JV with Yansteel, part of Tangshan Yanshan Iron & Steel, a privately owned Chinese steel manufacturer
- Construction of Yansteel's vertically integrated smelter/pigment complex in China completed
- Section by section testing currently underway with commissioning to commence before the end of this year
- Yansteel designed the plant to process ilmenite feedstock from various global sources including Australia (Thunderbird)
- Feed preparation plant (FPP) includes fluidised bed roasters and magnetic separation



Process Plant

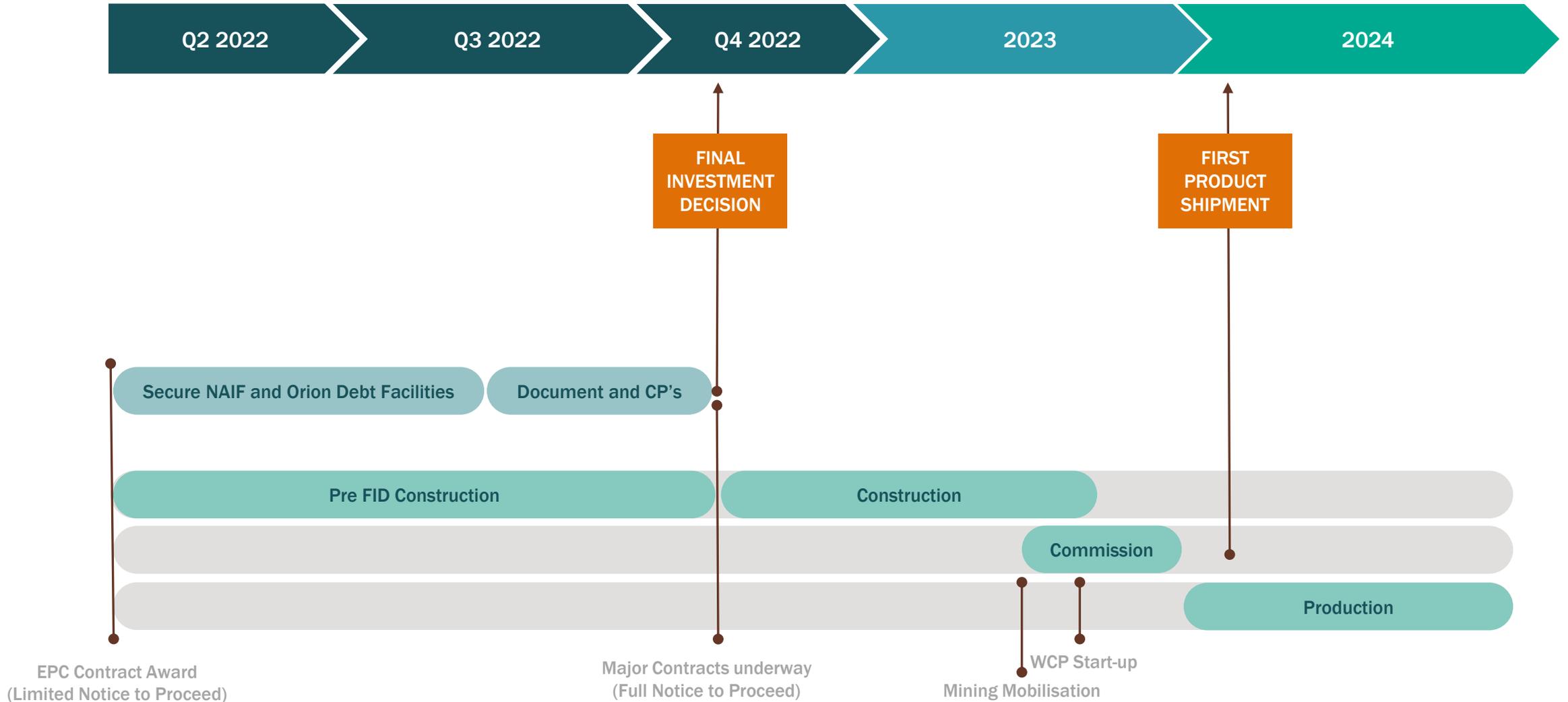
Source: Yansteel



Tank Farm

Source: Yansteel

FIRST PRODUCTS SHIPPED IN Q1 2024



OUR ESG APPROACH

Environmental

- Full State and Federal environmental approvals granted following a detailed Public Environmental Review ("PER") process
- Rehabilitation throughout mine life – minimises disturbed area
- Environmental practices & protocols mirror Equator Principles - Addressing the Climate Change challenge

Social

- Co-existence Agreement (Native Title Agreement) in place
 - ▶ Targeted 40% Aboriginal Employment by year 8 of operations
 - ▶ Includes Aboriginal Training Fund & Business Support programs
 - ▶ Cash royalties to Traditional Owners across a 36 year mine life
- High standards in safeguarding the environment, water, diversity and Aboriginal heritage
- Focus on Local Employment – 300 jobs on a Drive In, Drive out basis
- State and Federal Tax Contribution of >A\$1B over 36 year mine life

Governance

- Compliant with ASX recommended governance framework
- Commitment to increase Board and management diversity

SHEFFIELD RESOURCES



- 50/50 JV with Yansteel
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1. ASX Announcement "Thunderbird BFS Results, Financing and Project Update" 24 March 2022

2. Project progress as at 31 October 2022



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