



**BHP**

# Bank of America Global Metals, Mining & Steel Conference 2025

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Copper South Australia



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The information in this presentation is current as at 13 May 2025. It is in summary form and is not necessarily complete. It should be read together with the BHP Results for the half year ended 31 December 2024.

## Forward-looking statements

This presentation contains forward-looking statements, which involve risks and uncertainties. Forward-looking statements include all statements other than statements of historical or present facts, including: statements regarding: trends in commodity prices and currency exchange rates; demand for commodities; global market conditions; reserves and resources estimates; development and production forecasts; guidance; expectations, plans, strategies and objectives of management; climate scenarios; approval of projects and consummation of transactions; closure, divestment, acquisition or integration of certain assets, operations or facilities (including associated costs or benefits); anticipated production or construction commencement dates; capital costs and scheduling; operating costs, and availability of materials and skilled employees; anticipated productive lives of projects, mines and facilities; the availability, implementation and adoption of new technologies, including artificial intelligence; provisions and contingent liabilities; and tax, legal and other regulatory developments.

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Other factors that may affect our future operations and performance, including the actual construction or production commencement dates, revenues, costs or production output and anticipated lives of assets, mines or facilities include our ability to profitably produce and deliver the products extracted to applicable markets; the impact of economic and geopolitical factors, including foreign currency exchange rates on the market prices of the commodities we produce and competition in the markets in which we operate; activities of government authorities in the countries where we sell our products and in the countries where we are exploring or developing projects, facilities or mines, including increases in taxes and royalties or implementation of trade or export restrictions; changes in environmental and other regulations; political or geopolitical uncertainty; labour unrest; weather, climate variability or other manifestations of climate change; and other factors identified in the risk factors discussed in section 8.1 of the Operating and Financial Review (OFR) in the BHP Annual Report 2024 and BHP's filings with the U.S. Securities and Exchange Commission (the 'SEC') (including in Annual Reports on Form 20-F) which are available on the SEC's website at [www.sec.gov](http://www.sec.gov).

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Unless expressly stated otherwise: variance analysis relates to the relative performance of BHP and/or its operations during the half year ended 31 December 2024 compared with the half year ended 31 December 2023; total operations refers to the combination of continuing and discontinued operations; continuing operations refers to data presented excluding Petroleum from FY21 onwards; references to Underlying EBITDA margin exclude third party trading activities; data from subsidiaries are shown on a 100% basis and data from equity accounted investments and other operations is presented, with the exception of net operating assets, reflecting BHP's share; medium-term refers to a five-year horizon, unless otherwise noted. Throughout this presentation, production volumes and financials for the operations from BHP's acquisition of OZ Minerals Limited (OZL) during FY23 are for the period of 1 May to 30 June 2023, whilst the acquisition completion date was 2 May 2023. Unless expressly stated otherwise, for information and data in this presentation related to BHP's social value or sustainability position or performance: former OZL operations that form part of BHP's Copper South Australia asset and the West Musgrave Project are included for the period until 2 April 2024; former OZL Brazil assets are excluded; and all such information and data excludes BHP's interest in non-operated assets. Numbers presented may not add up precisely to the totals provided due to rounding. All footnote content is contained on slide 16.

## Non-IFRS information

We use various Non-IFRS information to reflect our underlying performance. For further information, the reconciliation of non-IFRS financial information to our statutory measures, reasons for usefulness and calculation methodology, please refer to 'Non-IFRS financial information' in the BHP Financial Report for the half year ended 31 December 2024.

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In this presentation, the terms 'BHP', the 'Company', the 'Group', 'BHP Group', 'our business', 'organisation', 'we', 'us', 'our' and ourselves' refer to BHP Group Limited and, except where the context otherwise requires, our subsidiaries. Refer to Note 30 'Subsidiaries' of the Financial Statements in the BHP Annual Report 2024 for a list of our significant subsidiaries. Those terms do not include non-operated assets. Our non-operated assets include Antamina, Samarco and Viciu. This presentation covers BHP's functions and assets (including those under exploration, projects in development or execution phases, and sites and operations that are closed or in the closure phase) that have been wholly owned and operated by BHP or that have been owned as a joint venture<sup>1</sup> operated by BHP (referred to in this presentation as 'operated assets' or 'operations') from 1 July 2024 to 31 December 2024 unless otherwise stated. BHP also holds interests in assets that are owned as a joint venture but not operated by BHP (referred to in this presentation as 'non-operated joint ventures' or 'non-operated assets'). Notwithstanding that this presentation may include production, financial and other information from non-operated assets, non-operated assets are not included in the BHP Group and, as a result, statements regarding our operations, assets and values apply only to our operated assets unless stated otherwise.

1. References in this presentation to a 'joint venture' are used for convenience to collectively describe assets that are not wholly owned by BHP. Such references are not intended to characterise the legal relationship between the owners of the asset.

# BHP's commodities are resilient

We are well positioned for the multiple scenarios that could play out

				BHP Portfolio impacts		
	 US effective tariff rate	 Global GDP	 China impact	 Steelmaking materials	 Copper	 Potash
Pre-tariffs	2.5%	~3%	4.5 to 5.0% GDP growth Stimulus expected	Stable	Positive	Mild positive
Escalated trade war	Higher than current	Significant downside	Lower GDP growth Increased stimulus	Slight negative	Slight negative	Minimal impact
Trade deals executed	Lower than current	Mild upside	Upside to GDP growth	Mild positive	Positive	Positive

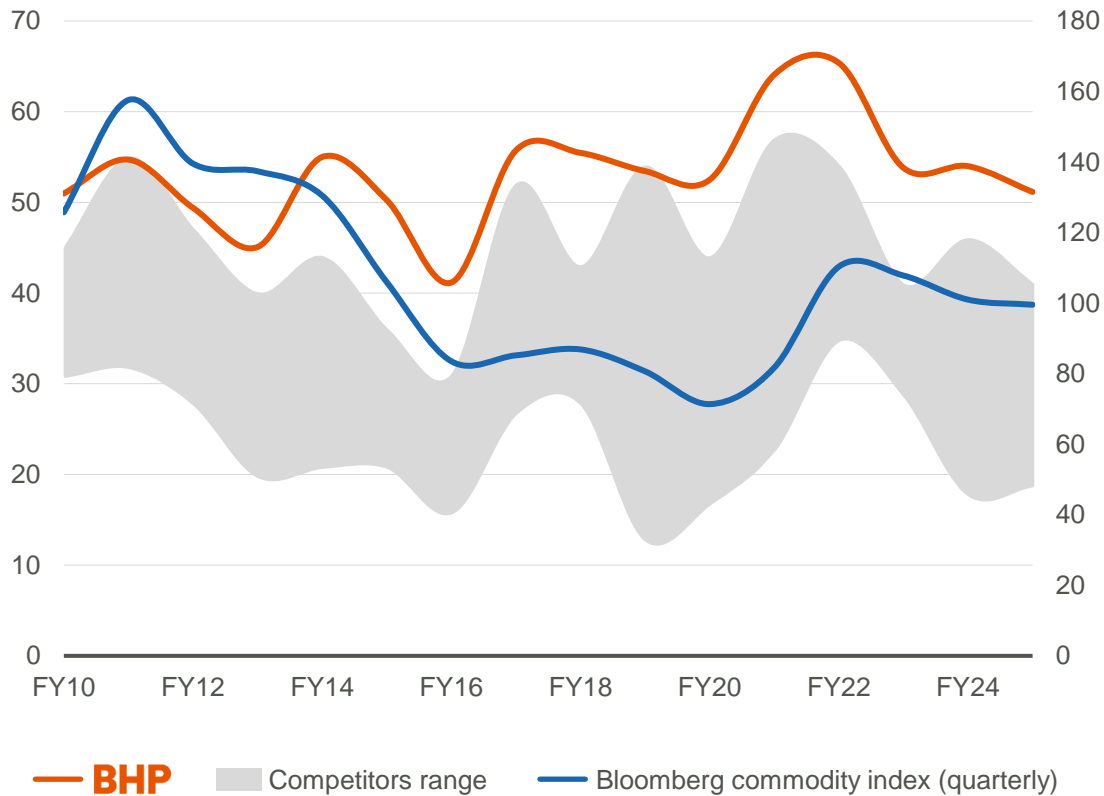
# Consistent performance through the cycle

Our winning strategy, high quality assets and disciplined approach has helped us deliver operational consistency in volatile markets

## Industry leading margins generated through the cycle...<sup>1</sup>

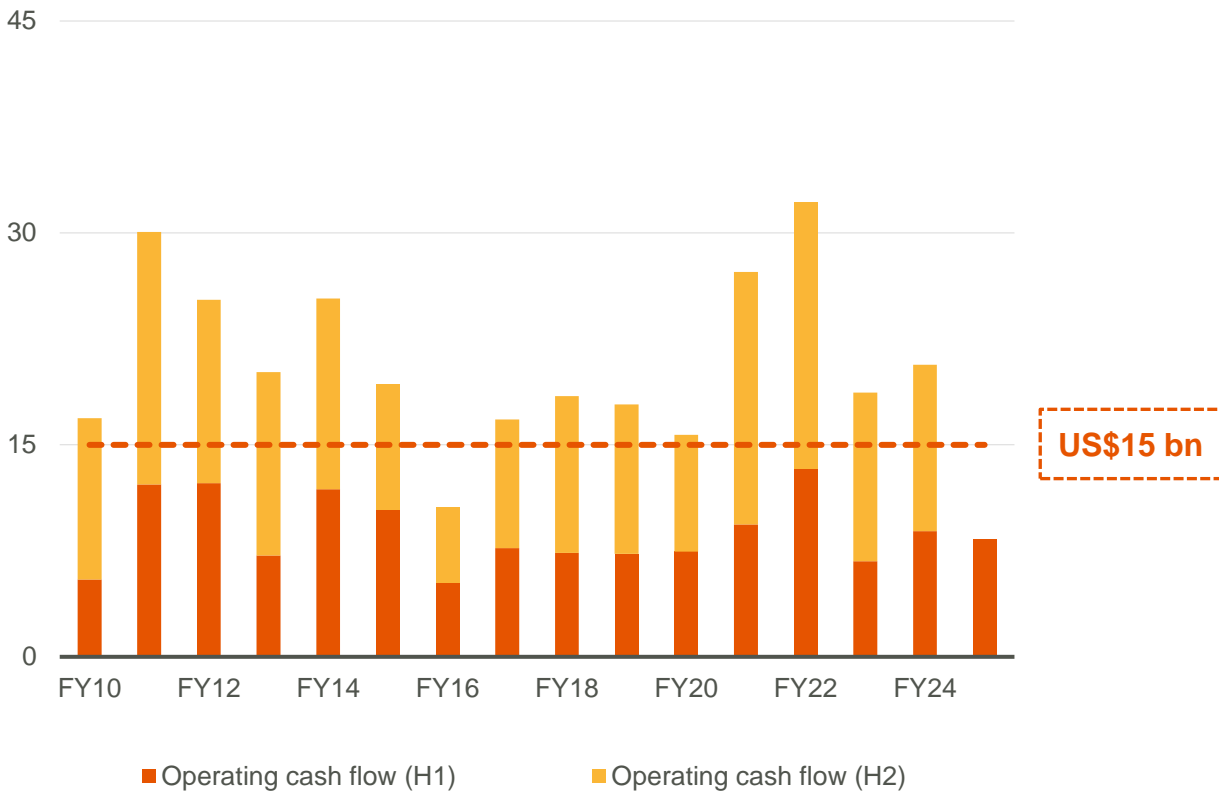
(Underlying EBITDA margin, %)

(Bloomberg commodity index, rebased)



## ...enabled us to deliver strong operating cashflow of >\$15 bn<sup>2</sup>

(Net operating cash flow, US\$ bn)

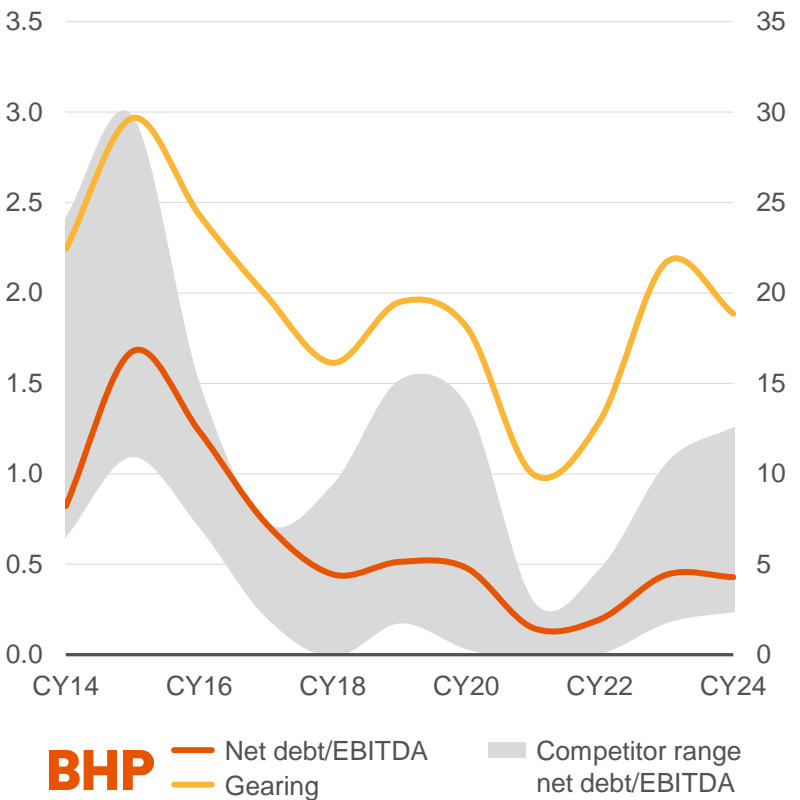


Note: Competitors include Anglo American, Glencore (ex-marketing), Rio Tinto and Vale.  
Source: Company Reports, Bloomberg.

# Strong balance sheet provides optionality

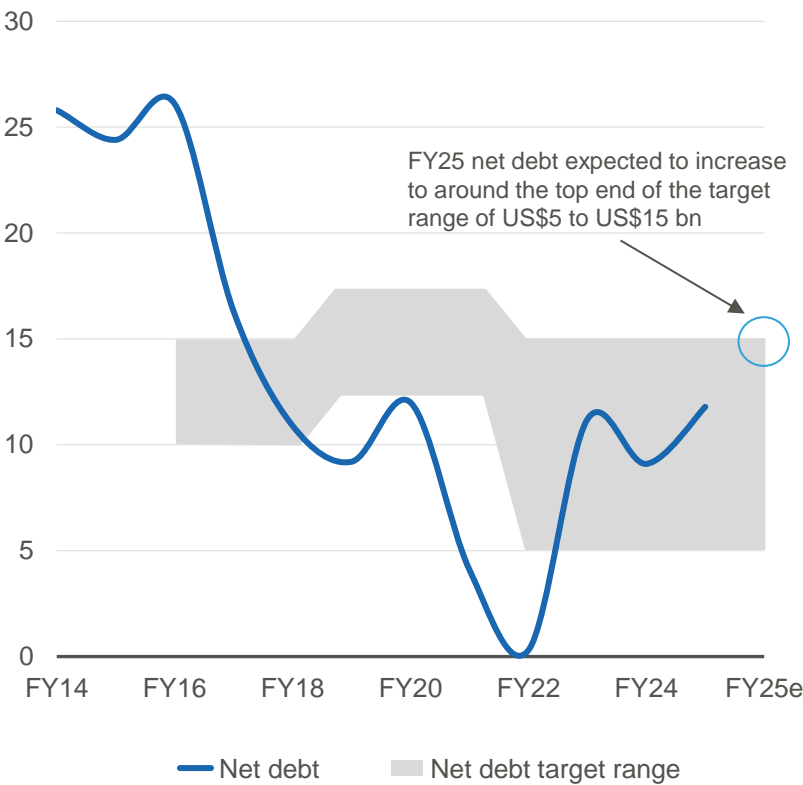
Our net debt, leverage and gearing remains low

**BHP has low absolute leverage vs. sector<sup>3</sup>**  
(Net debt / LTM EBITDA, x) (Gearing, %)



Source: BHP analysis, Bloomberg estimates  
Note: Competitors include Anglo American, Glencore and Rio Tinto.  
LTM – last 12 month EBITDA to HY25.

**Net debt target range has been revised over time**  
(Net debt, US\$ bn)



**Illustrative leverage**  
(Net debt US\$ scenario / LTM EBITDA)

**0.36x**

\$10 bn net debt

**0.55x**

\$15 bn net debt

**0.73x**

\$20 bn net debt

# Our organic options leverage our strengths

We have growth underway from our existing assets and an attractive portfolio of projects

## Delivering volume growth near term...



### Jansen Stages 1 & 2

~8.5 Mtpa by  
early 2030s



### Western Australia Iron Ore

Growth to >305 Mtpa  
in medium term



### BMA

Recovery to 43-45 Mtpa  
planned in medium term

## ...future options also advancing



### Chilean copper

Pathway back to ~1.4  
Mtpa average across  
FY31 to FY40<sup>4</sup>



### Copper South Australia

Pathway to deliver  
>500 ktpa  
by early 2030s<sup>5</sup>



### Western Australia Iron Ore

Studies for up to  
330 Mtpa due CY25



## BHP Operating System (BOS)

and our approach to operational excellence...

...underpins  
strong financial  
performance...

Highest margins vs competitors<sup>1</sup>

Consistent NOCF<sup>2</sup>

Strong balance sheet

...which couples  
with our capital  
discipline and  
other strengths to  
deliver value

Capital Allocation Framework

Attractive organic growth pipeline

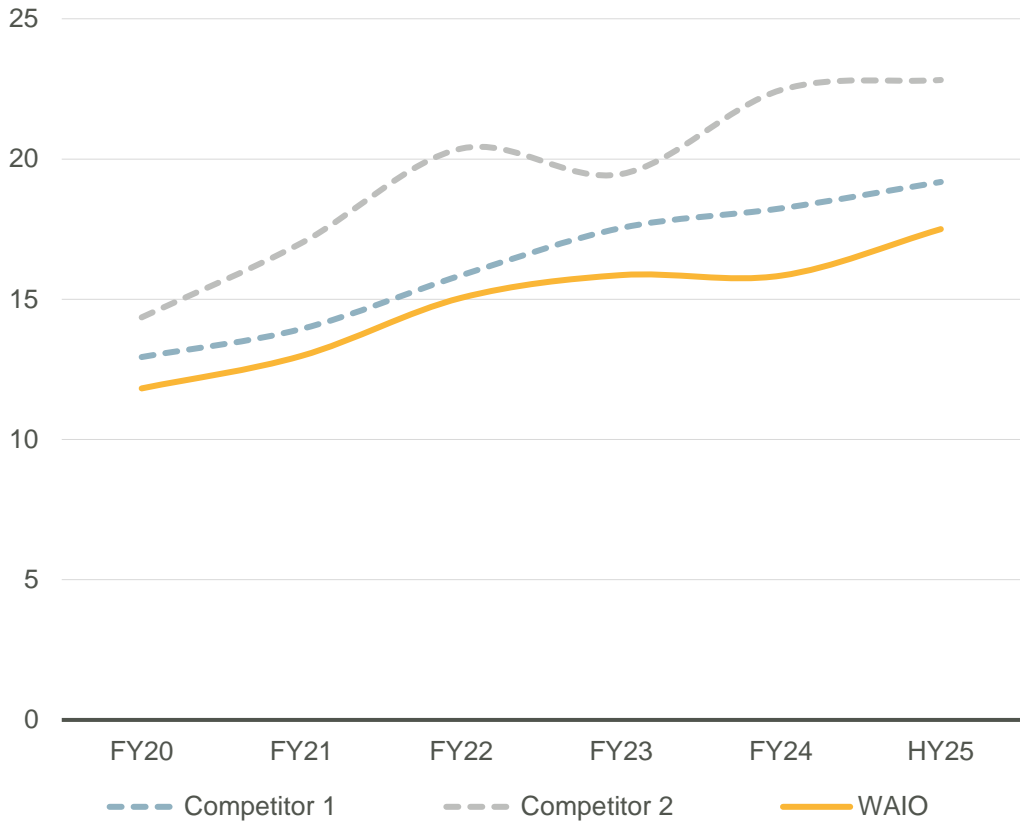
Delivering social value

# Consistently delivering operational excellence

Leveraging the BHP Operating System (BOS) we have created an ongoing advantage on costs versus major competitors

## WAIO continues to outperform<sup>6</sup> ...

(Iron ore C1 unit cost, US\$/t)

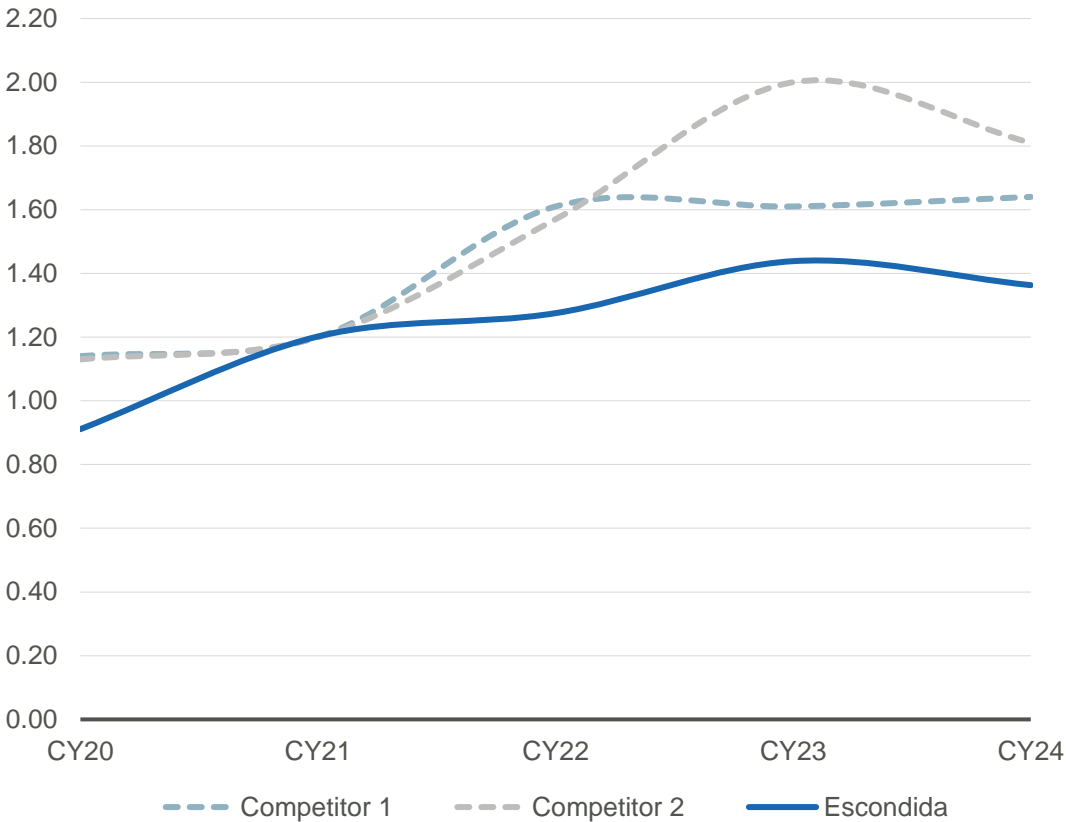


Note: Competitors include Fortescue and Rio Tinto.

Source: Company Reports.

## ...and we are replicating this success at Escondida<sup>7</sup>

(Copper net unit cost, US\$/lb)



Note: Competitors include Anglo American's Chilean operation and Antofagasta.

Source: Company Reports.

# WALIO set to generate strong cashflow through the cycle

China to maintain current steel production rates for several years with iron ore cost support in the range of ~US\$80-100/t<sup>8</sup>

FY20 to HY25 average demonstrates resilience

>5 years

Lowest cost major  
iron ore producer<sup>10</sup>

~69%

EBITDA margin

~88%

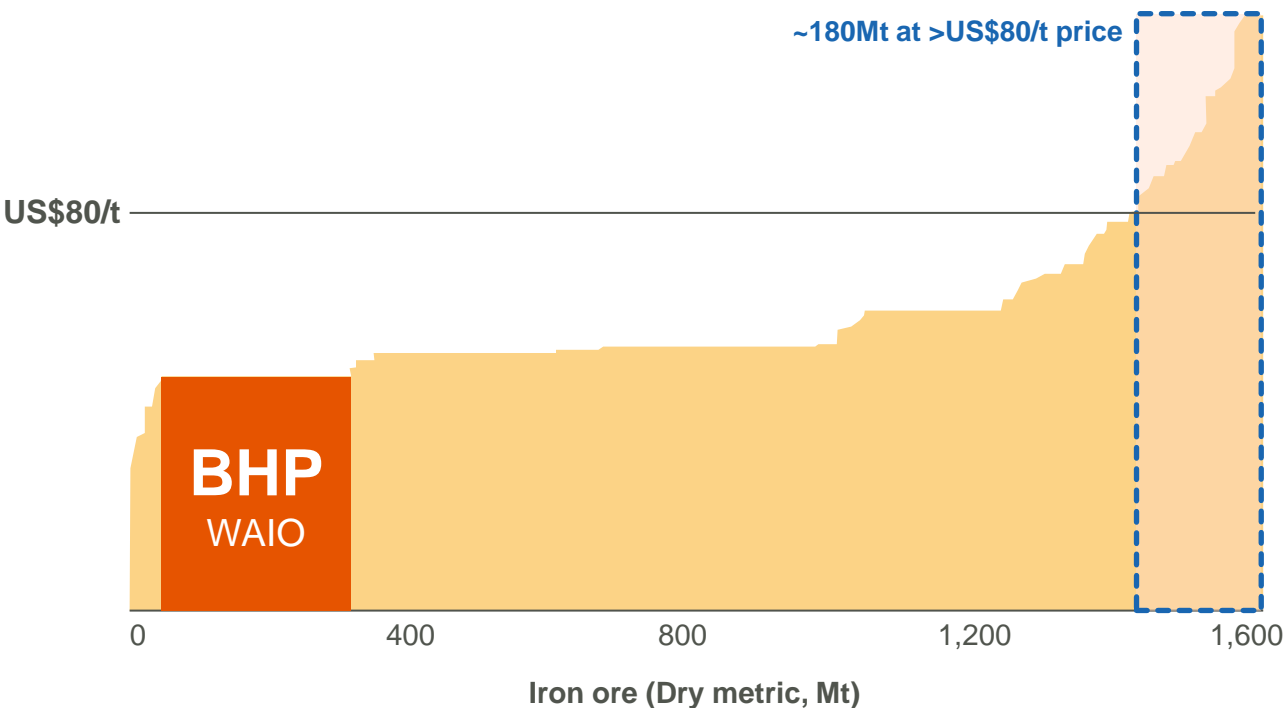
FCF conversion

~62%

ROCE

WALIO's low cost is a competitive advantage<sup>9</sup>

2024 US\$/dmt All-in cost curve (CFR China, 62% Fe fines equivalent)



Source: Wood Mackenzie.

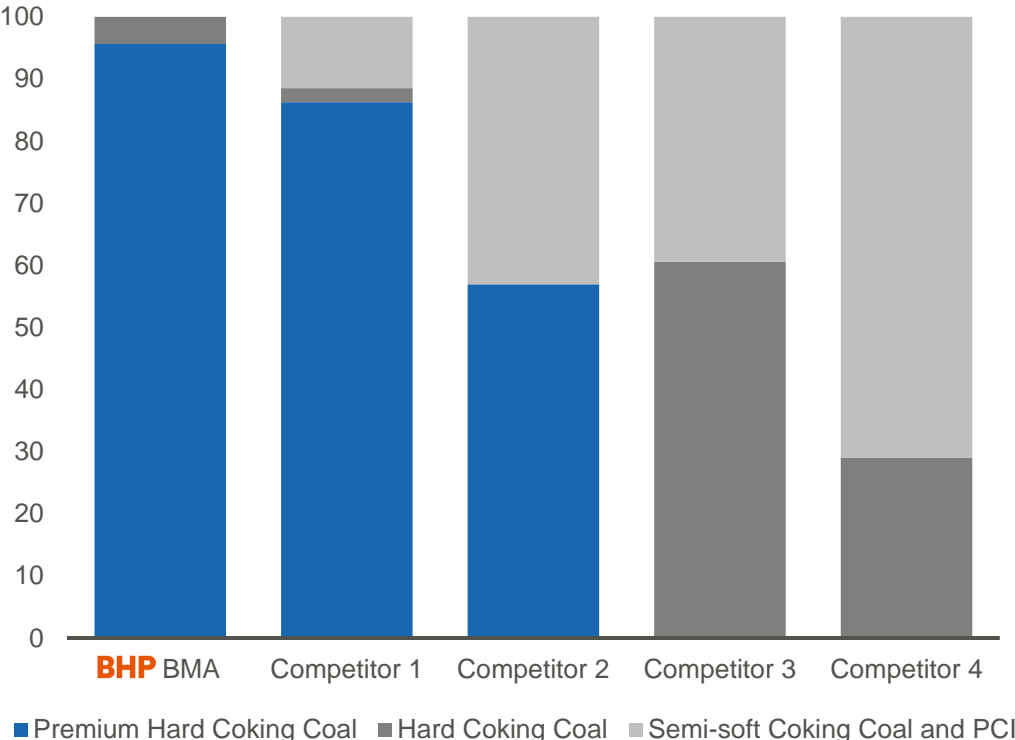


# BMA well positioned

Growing demand for BMA's higher-quality steelmaking coal over the medium term and beyond

## BMA is largest producer of Premium Hard Coking Coal...<sup>11</sup>

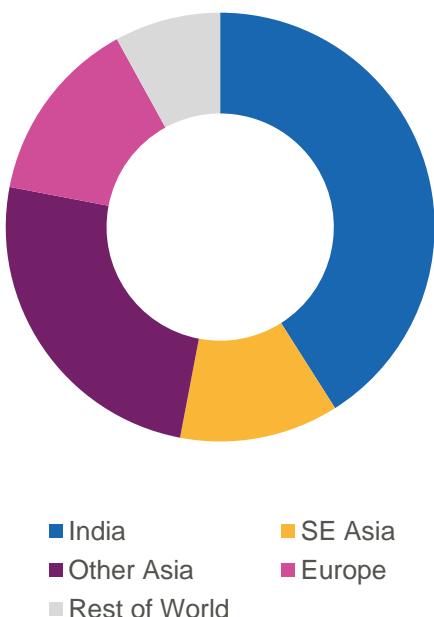
(CY24 estimated seaborne sales by product quality, % share)



Note: PCI = Pulverised Coal Injection; Competitors include Coronado, Glencore, Peabody and Whitehaven.  
Source: BHP Analysis, Wood Mackenzie.

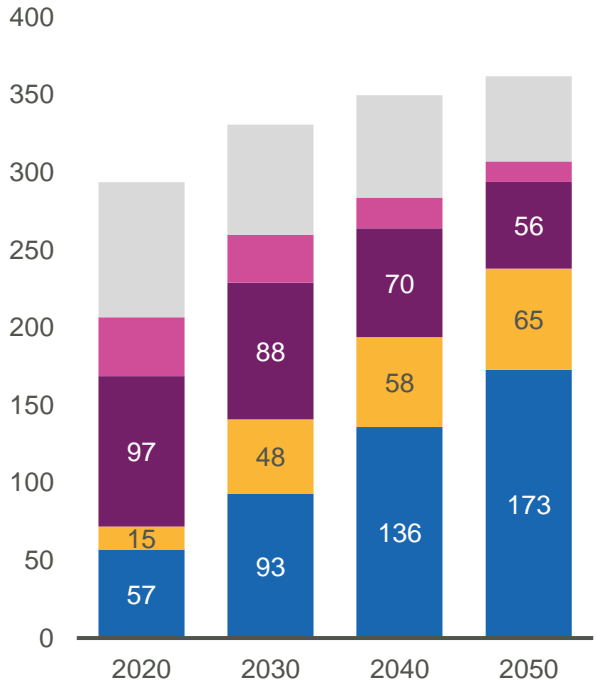
## ...with sales highly leveraged to growing demand from India and SE Asia

(BMA CY24 sales by region, % share)



Source: BHP analysis.

(Steelmaking coal seaborne demand, Mt)

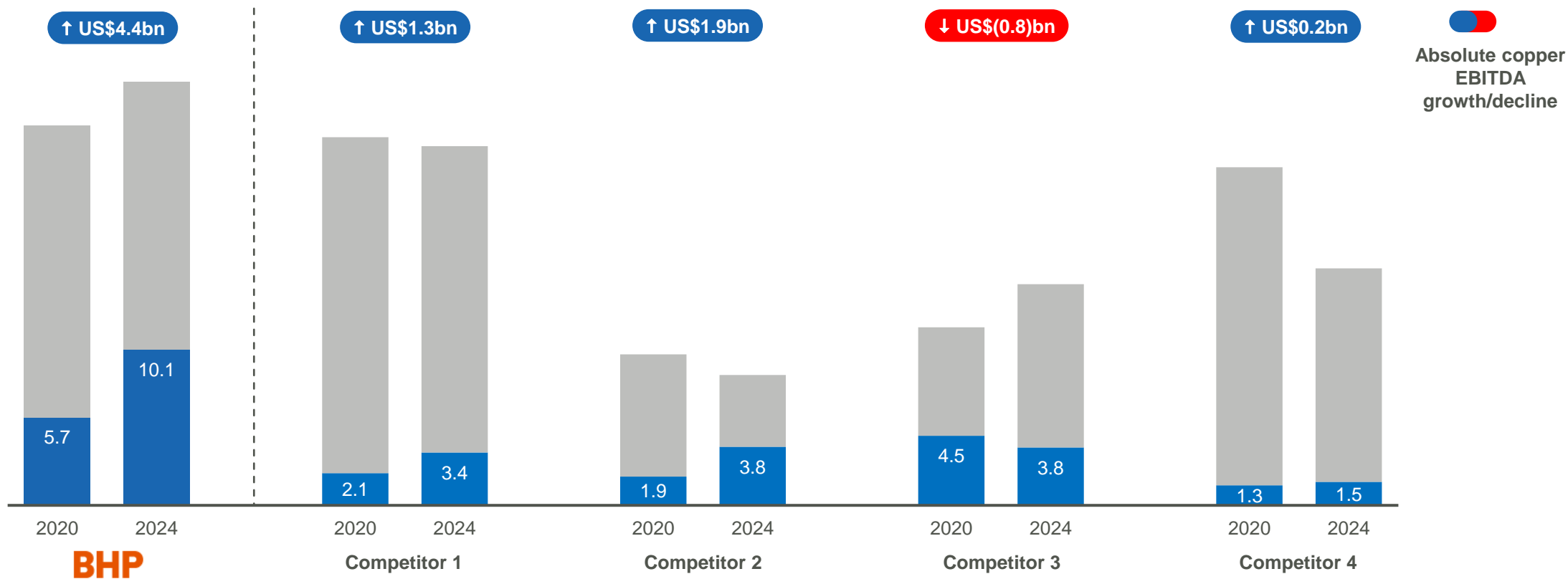


Source: Wood Mackenzie Investment Horizon Outlook H2 2024.

# Delivering copper growth and significant future optionality

BHP is world's largest copper producer<sup>12</sup> with largest copper resource base<sup>13</sup>

Absolute copper EBITDA growth<sup>14</sup>  
(US\$ bn)



Note: Competitors include Anglo American, Glencore, Rio Tinto and Vale.  
Source: Company Reports.

# Dip to be filled as Escondida growth program advances

Pre-2030s production update gives confidence to extend medium term guidance; permitting and other initiatives tracking well

## Growth program schedule continues to be optimised, positive impact on medium term

- Building on strong operating performance with levers across concentrators and leaching
- Life of Los Colorados extended to post FY29
- Expected production in FY30 increased from previous ~740kt dip to ~900-1,000kt range
  - Medium term guidance of ~900-1,000kt copper from FY27 to FY31<sup>15</sup>
  - ~400kt of potential incremental copper production over 5 years<sup>16</sup>

## Limited impact on growth program timing

- Permitting process underway for Laguna Seca Expansion
  - Environmental Impact Statement (DIA) submitted March 2025
- Hydrofloat pilot plant commissioned in April 2025
  - Testing coarse particle flotation technology with potential for increase in copper recovery of ~4 – 6 ppt

## Capital cost optimisation underway across growth program

- Los Colorados Concentrator Extension capex reduced by >50% vs. previous estimate



# Vicuña indicates world class potential

Resource updates at Filo del Sol (FdS) and Josemaria an important step towards the development of emerging copper district

## A long-term strategic alliance between BHP and Lundin Mining

- Potential for Vicuña to develop into a world class producer

## FdS largest greenfield copper deposit discovered in last 30 years

- Filo del Sol and Josemaria deposits combined resources of 11 Bt<sup>18</sup>
- Filo del Sol has a high-grade core comprising:
  - 0.6 Bt at 1.1% CuEq Measured and Indicated Mineral Resources
  - 0.9 Bt at 0.9% CuEq Inferred Mineral Resources

## Substantial gold and silver by-products<sup>18</sup>

- Second largest gold and silver resource when compared to the world's largest copper mining complexes

## RIGI framework provides attractive incentives

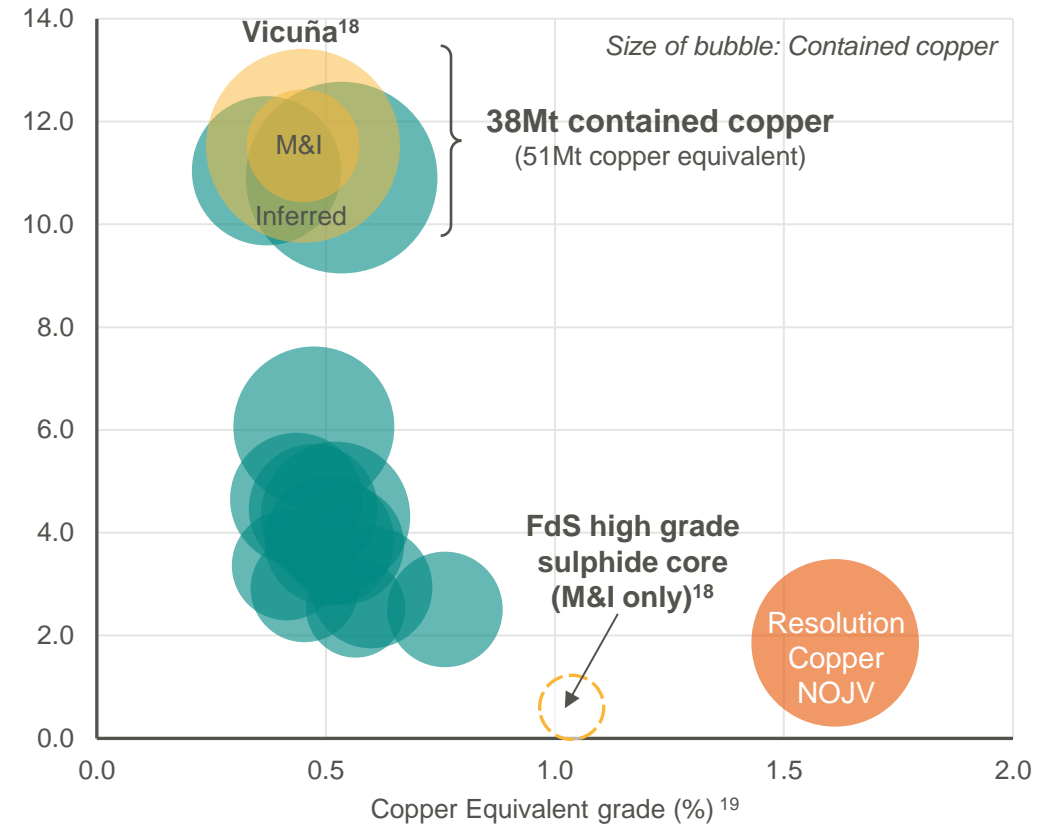
- Two years from July 2024 to qualify the project under RIGI

## Next steps

- Integrated technical report for combined project due in Q1 CY26

## Vicuña large scale vs. global projects<sup>17</sup>

(Total resource and reserves of undeveloped copper projects, Bt)



Source: Lundin Mining reports, BHP Analysis, Wood Mackenzie.

Note: M&I – Measured and Indicated; Vicuña Mineral Resources are based on information prepared by Vicuña Corp, and published by Lundin Mining in a press release dated 5 May 2025. BHP is currently conducting a separate review of the Vicuña estimates in connection with our FY25 Annual Report. RIGI is the Incentive Regime for Large Investments.



# Jansen's strengths similar to WAIO's







Developing a best in class new potash mine expected to generate strong cashflow through the cycle



**WAIO**



**Jansen**

 <p><b>Pilbara Australia</b></p>	<p><b>Favourable position in a world class basin</b></p>	 <p><b>Saskatchewan Canada</b></p>
 <p><b>&gt;60 YEARS<sup>20</sup></b></p> <p><b>29.5 Bt of total resource<sup>21</sup></b></p>	<p><b>Significant resource base</b></p>	 <p><b>~55 YEARS<sup>22</sup></b></p> <p><b>6.5 Bt of total resource<sup>23</sup></b></p>
	<p><b>Low cost</b></p>	
<p><b>&gt;305 Mtpa medium term</b></p> <p>Studies for up to <b>330 Mtpa</b></p>	<p><b>Significant brownfield growth optionality</b></p>	<p><b>~8.5 Mtpa stages 1 &amp; 2</b></p> <p>Options for up to <b>~17 Mtpa<sup>24</sup></b> from Jansen</p>
<p><b>&gt;80% FCF conversion<sup>25</sup></b></p>	<p><b>Low sustaining capital</b></p>	<p><b>&gt;80% FCF conversion<sup>26</sup></b></p>



Jansen

# Why BHP?

A winning strategy, world class assets operated well and a clear, disciplined approach to capital allocation



## Winning strategy

- > Focus on commodities with large scale and differentiated drivers leveraged to megatrends



## Operational excellence

- > Best track record of delivering guidance amongst competitors
- > World's lowest cost major iron ore producer



## Value driven growth

- > Largest copper producer<sup>12</sup> set to deliver long term growth
- > Attractive organic pipeline in copper and potash



## Disciplined capital allocation

- > Reliable, with highest margin<sup>27</sup> producer and consistent cashflow enabling both returns and growth
- > Well placed to deliver resilient returns and value through the cycle

**BHP**

# Footnotes

1. Slide 4, 6: BHP Underlying EBITDA margin (excluding third party products). Competitor data compiled from publicly available information (company reports). Bloomberg commodity index (Source: Bloomberg, BCOM Index) as at the end of each quarter.
2. Slide 4, 6: See chart demonstrating consistent net operating cash flows between FY10 and H1 FY25. BHP net operating cash flow information related to periods prior to FY20 are as reported and have not been restated for IFRS 5 Non-current Assets Held for Sale and Discontinued Operations. FY11 and FY10 have also not been restated for other accounting standard changes. Presented on a total operations basis.
3. Slide 5: Gearing calculated as net debt divided by net debt plus net assets.
4. Slide 6: Chilean copper refers to Escondida and Pampa Norte, excluding exploration. Chilean growth program includes Escondida new concentrator, Laguna Seca expansion, Spence throughput and recovery increase, Escondida and Pampa Norte leaching options. Further potential includes leaching extension through Nitrate Leach, and Cerro Colorado Hypogene development.
5. Slide 6: We are assessing the pathway to deliver >500 ktpa of copper production in the early 2030s (>700 ktpa CuEq), and a strategy to deliver up to 650 ktpa copper production by the middle of next decade. Aspiration includes Inferred Resources from Oak Dam and Exploration studies at OD Deeps.
6. Slide 7: BHP analysis based on WAIO C1 reported unit costs compared to publicly available unit costs reported by major competitors, including Fortescue and Rio Tinto. There may be differences in the manner that third parties calculate or report unit costs compared to BHP, which means that third-party data may not be comparable to our data. WAIO C1 unit costs excludes royalties (government and third-party royalties), net inventory movements, depletion of production stripping, exploration expenses, marketing purchases, demurrage, exchange rate gains/losses and other income.
7. Slide 7: Source: Company reports. Escondida costs calendarised.
8. Slide 8: Source: BHP analysis based on publicly available sources, including Company announcements, WoodMac, Bloomberg, Baltic and Mysteel.
9. Slide 8: Source: Woodmac Q4 2024 dataset. Cost curve includes seaborne supply and Chinese domestic iron ore. Chart is truncated to US\$120/dmt. Cost curve on a value-adjusted all-in costs basis: the net of C1 cash costs, sustaining capital, royalties and levies, and value-in-use adjustments (discounts or premiums received) associated with the quality of iron ore products shipped/sold. The illustrated costs and volumes are individually shown at an asset level, except for the four major iron ore producers that are aggregated to company level.
10. Slide 8: BHP internal analysis based on WAIO C1 reported unit costs compared to publicly available unit costs reported by major competitors, including Fortescue, Rio Tinto and Vale. There may be differences in the manner that third parties calculate or report unit costs compared to BHP, which means that third-party data may not be comparable to our data. WAIO C1 unit costs excludes royalties (government and third party royalties), net inventory movements, depletion of production stripping, exploration expenses, marketing purchases, demurrage, exchange rate gains/losses and other income.
11. Slide 9: PHCC defined as per Woodmac quality grades, including PLV and PMV coals that are typically priced of the premium low-vol (PLV) index (or equivalent) published by price reporting agencies. Competitor sales are sourced from Woodmac and adjusted to reflect latest ownership changes. Sales share by operators (not basis equity).
12. Slide 10, 14: BHP copper production data calculated on a reported basis for the 2024 calendar year (on a reported basis as reported in BHP's Operational Reviews released in CY24). BHP production calendarised. Competitor reported copper production data for the 2024 financial year compiled from publicly available information (company reports). Competitors include: Anglo American, Antofagasta, Codelco, Freeport, Glencore, Rio Tinto, Southern Copper, Teck.
13. Slide 10: Largest copper mineral resources on a contained metal basis, equity share. Source BHP data: BHP Annual Report 2024.
14. Slide 10: BHP data is calendarised.
15. Slide 11: Medium term guidance is from FY27 to FY31 and was previously from FY27 for "a period".
16. Slide 11: Based on the extension of the Los Colorados concentrator beyond FY29, and operational improvements across mining, throughput and recovery.
17. Slide 12: Size of bubble is contained copper. Undeveloped projects based on Woodmac data and include Pebble, Resolution, El Pachon, La Granja, KSM Project, El Arco, Llurimagua, NuevaUnion, Tampakan Project, Cascabel, Twin Metals, Vizzcachitas, Taca Taca, Baimskaya.
18. Slide 12: Vicuna Mineral Resources are based on information prepared by Vicuña Corp, and published by Lundin Mining in [a press release dated 5 May 2025](#). BHP is currently conducting a separate review of the Vicuña estimates in connection with our FY25 Annual Report.
19. Slide 12: Copper equivalent based on Woodmac Q4 2024 dataset for undeveloped projects with Vicuña Mineral Resources based on information prepared by Vicuña Corp, and published by Lundin Mining in [a press release dated 5 May 2025](#). The calculation for Vicuña uses metal prices of US\$4.43/lb copper, US\$2,185/oz gold and US\$28.80/oz silver and recoveries of 78% for copper, 62% for gold and 65% for silver.
20. Slide 13: Could potentially support greater than 60 years of operation based on reserves and exclusive resources and subject to full conversion of resources into reserves and assuming a nominal production rate. Reserves and exclusive resources obtained from FY23 WAIO Technical Report Summary (TRS).
21. Slide 13: See HY25 Results Announcement for further information. Based on FY24 Mineral Reserves published in Form 20-F (SEC).
22. Slide 13: Could potentially support 55 to 57 years of operation based on reserves and exclusive resources and subject to full conversion of resources into reserves and assuming a nominal production rate. Reserves and exclusive resources obtained from FY24 Jansen TRS.
23. Slide 13: See BHP FY24 Annual Report for further information. Based on FY24 Mineral Reserves published in Form 20-F (SEC).
24. Slide 13: Jansen has the potential for two additional expansions to reach an ultimate production capacity of 16 to 17 Mtpa (subject to studies and approvals).
25. Slide 13: WAIO FCF conversion is calculated as FCF (EBITDA – Capex) divided by EBITDA. Refer to WAIO's low cost position on slide 8.
26. Slide 13: Jansen FCF conversion is calculated at a long term consensus price of US\$301/t based on Argus and CRU data and represents the average during the first 10 years of operations (FY27-FY36). Calculated as expected FCF (EBITDA – Capex) divided by EBITDA. Jansen Stage 1 and 2 is forecast to be first quartile on the cost curve when it reaches full production. Underlying EBITDA margins for Jansen Stage 1 and Stage 2 of approximately 65% to 70% are expected due to the forecast low-cost position of US\$105 to US\$120/t. Operational expenditure includes costs relating to the Jansen mine and port and rail costs, excludes carbon tax, as is based on Real 1 July 2023.
27. Slide 14: BHP have delivered an underlying EBITDA profit margin of over 50 per cent for eight-consecutive years ahead of our competitors. Source BHP data: BHP Annual Report 2024.