

Disclaimer and Competent Person's Statement





Disclaimer

This presentation contains summary information about the Company's activities current as at the date of this presentation. The information in this presentation is of a general background nature and does not purport to be complete or contain all the information investors would require to evaluate their investment in the Company, nor does it contain all the information which would be required in a prospectus or product disclosure statement prepared in accordance with the Corporations Act 2001 (Cth). The Company is not responsible for updating, nor undertakes to update, this presentation. This presentation should be read in conjunction with the Company's other periodic and continuous disclosure announcements, available at https://www.paladinenergy.com.au.

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This presentation includes statements that may be deemed "forward-looking statements". All statements in this presentation, other than statements of historical facts, that address future production, reserve or resource potential, exploration drilling, exploration activities and events or developments that the Company expects to occur, are forward-looking statements.

Although the Company believes the expectations expressed in such forward-looking statements are based on reasonable assumptions, such statements are not guarantees of future performance and actual results or developments may differ materially from the expectations expressed in the forward-looking statements. Factors that could cause actual results to differ materially from the expectations expressed in those forward looking statements include market prices, exploitation and exploration successes, continued availability of capital and financing and general economic, market or business conditions and risk factors associated with the Uranium industry generally.

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The information in this presentation relating to the Mineral Resources and Ore Reserves for all of the Company's deposits other than Langer Heinrich, Michelin, Jacques Lake and Manyingee was prepared and first disclosed under the JORC Code 2004. It has not been updated since to comply with the JORC Code 2012 on the basis that this information has not materially changed since it was last reported. Refer to the Mineral Resource Table slides in the Appendix of this presentation.

Competent Person's Statement

The information contained within this presentation is extracted from the "2022 Annual Report to Shareholders" released on 26 August 2022 which is available to view on paladinenergy.com.au. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original announcement and, in the case of Mineral Resources or Ore Reserves, 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 the form and context in which the Competent Person's findings are presented have not materially modified from the original market announcement.

This announcement has been authorised for release by the Board of Directors of Paladin Energy Ltd.



Global exploration portfolio

Exploration



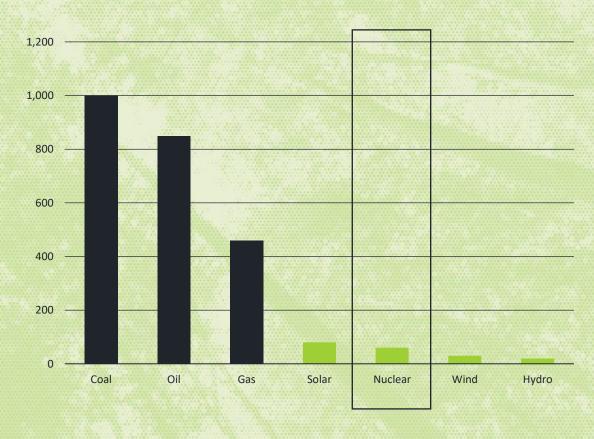
Our mission: Resourcing a global carbon-free future

Nuclear energy is playing a critical role in the transition to a decarbonised economy.

Today nuclear energy accounts for 47% of carbon-free electricity generation in the US¹.

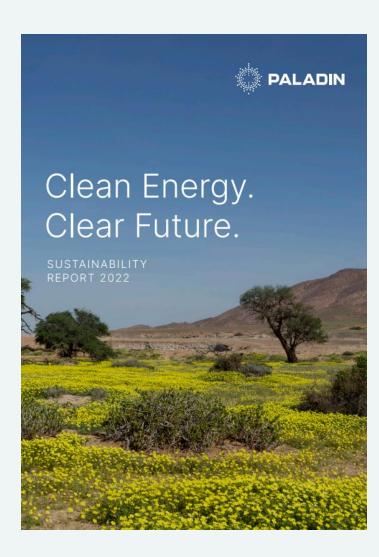
The uranium mined and processed at the Langer Heinrich Mine will be used to resource nuclear power plants, helping drive the global energy transition to a carbon-free, sustainable future.

Emissions Intensity by Energy Source 2 (g/kWh)



Paladin is committed to sustainable development





Paladin's 2022 Sustainability Report provides a roadmap for a sustainable future including details of the FY2022 ESG Performance and the Company's ESG Goals. Selected highlights and goals include:

	FY2022 ESG HIGHLIGHTS	ESG GOALS
Environment	 0 reportable environmental incidents 100% compliance with laws, regulations, licence and permit conditions 	 Set meaningful targets for Paladin's carbon footprint reduction and environmental impact, once the baseline footprint has been confirmed in operations Implement opportunities to reduce Scope 1 and Scope 2 emission levels
Social	 0 Lost Time Injuries and reportable safety incidents 100% compliance with the LHM Radiation Management Plan 0 local community grievances or complaints 	 Maximise local and regional employment opportunities wherever practical Implementation of an ISO 45001:2018 compliant HSE management system
Governance	 100% applicable permits in place Adoption and implementation of Sustainability Accounting Standards Board (SASB) framework 	 Materiality and status assessments of the Global Reporting Initiative (GRI) and Task Force on Climate- related Financial Disclosures (TCFD) reporting frameworks Compliance with reporting and requirements under the Modern Slavery Act



Langer Heinrich – a globally significant uranium mine



Q1 CY2024 production target

Cornerstone offtakes secured

4% of annual global uranium production²

Independent producer in a premier jurisdiction

10 years of production history

Peak production of 6Mlb¹ of U₃O₈

17 year mine life producing $77Mlb^1$ of U_3O_8

Namibia – a premier uranium jurisdiction







Globally significant uranium province (Husab, Rössing and Langer Heinrich) and a major supplier of the world's uranium



Uranium has been produced in Namibia since 1976 under a stable mining and uranium regulation regime



Excellent local infrastructure (port, road, rail, water & power) with proximity to the Walvis Bay industrial hub



Mining contributed ~10% to the country's GDP in 2022¹



Strong community and government support for the uranium industry

^{1.} Source: Bank of Namibia

Langer Heinrich Mine – restart project on track



- Low risk restart with project capital forecast of US\$118M
- ADP Group continues to work alongside the Company's owners' team as the EPCM delivery partner to de-risk project execution
- The Restart Project continues to focus on general Repairs and Refurbishment to return the existing process plant to operational readiness, coupled with the engineering and procurement for the delivery of Growth Projects process upgrades to increase throughput capacity and operational availability
- The project has progressed the following activities:
 - Mobilisation of over 400 employees and contractors on site
 - Completion of redundant process equipment removal and commencement of strategic equipment removal to facilitate Growth Projects scope execution
 - Site work programmes commenced and progressed for concrete repairs, pump refurbishments, and electrical upgrades
 - Award of all material contracts and purchase orders for project parts and equipment
 - Acceptance of NamPower and NamWater supply proposals

Activity for the remainder of FY2023 will focus on ramping-up of site manning and construction works associated with Repairs and Refurbishment scopes, completion of Growth Projects engineering and modelling activities to support the fabrication and construction packages and commencement of fabrication of Growth Projects steel, platework and tanks



Langer Heinrich Mine - production profile





Langer Heinrich Mine - uranium marketing update





Industry-leading counterparties with long-term cornerstone offtake agreements

- Offtake agreements with four counterparties in US and Europe¹:
 - Predominately base-escalated and fixed-price mechanisms
 - Tier-1 counterparties
- Offtake agreement with CNNC, a leading Chinese nuclear utility and one of the largest consumers of uranium in the world¹:
 - Nomination volumes agreed for 2024 and 2025
 - Market-related price mechanism
 - Flexibility on delivery timing during operational ramp-up period
 - Early payment arrangements



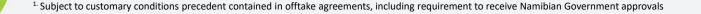
Tender Awards

 Contract negotiations continue in relation to a tender award for the supply of uranium to a leading US utility



Strategic Focus

- Contract book closed for 2024
- Continue to build and systematically layer the contract portfolio in attractive uranium pricing environment
- Target high-quality counterparties and a balance of pricing mechanisms





Structural supply deficit with growing demand



Structural Supply Shortage, Western Market, Mlb U₃O₈ p.a.

Structural supply gap

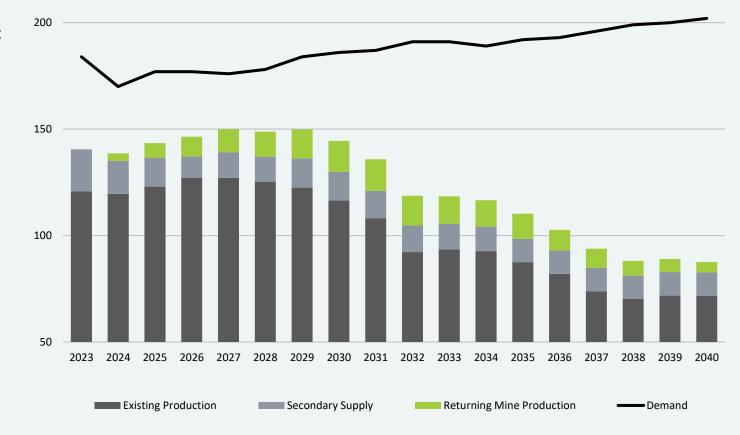
- Current primary uranium supply unable to meet current demand. Deficit met historically by secondary supplies and inventory drawdowns
- Average annual deficit is ~42Mlb over the coming decade

China's commitment to nuclear energy is strengthening

- Share of global demand growing from 19% (2023) to 36% (2040)¹
- Expected to become the largest consumer of uranium in the world by 2026¹
- Offtake agreement with Paladin, and recent offtake contracts signed with Cameco and Kazatomprom

Geopolitical uncertainties

 Events in Russia, Ukraine and Kazakhstan have emphasised the need for energy independence and supply from producers in low-risk, stable jurisdictions



Source: TradeTech, Market Study 2022: Issue 4

Notes: Demand includes reactor requirements and secondary demand; Western Market excludes Russia and Commonwealth of Independent State countries

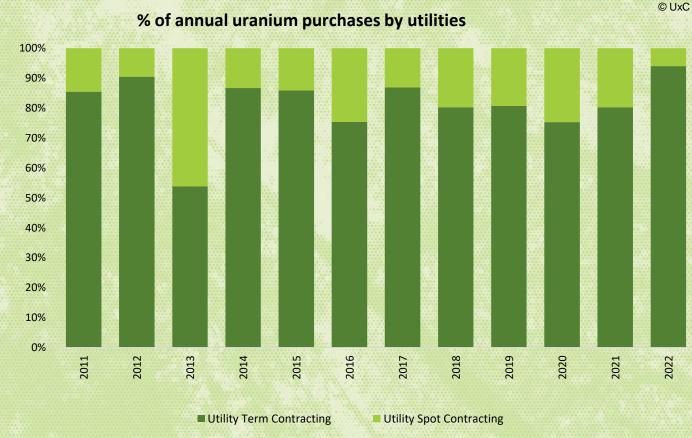


Term contracting dominates utility purchase volumes

Over the past decade, 82% of uranium purchased by utilities has been under long term contracts

The spot market provides a marketing opportunity once cornerstone customers are secured

Counterparty quality is essential to underpin the value of long term contracts



Source: UxC Uranium Market Outlook, Q4 2022

Strong uranium pricing environment



Financial players have significantly altered uranium spot market dynamics

- Spot market has become more liquid and more transparent with the entrance of Sprott and the revamp of the physical uranium trust, which it now manages (SPUT)
- Other financial players are entering the market (eg ANU Energy physical uranium fund)

Term contracting by utilities has increased significantly

- Spot and long-term contract prices have strengthened significantly in the last 18 months, to U\$\$50.75/lb¹ and U\$\$53.00/lb², respectively¹
- A price premium for Western production is evident
- Utilities are favouring existing producers and proven projects

Uranium Prices, Spot and Long-term, US\$/lb



^{1.} TradeTech as at 31 January 2023

Sources: TradeTech, Market Study 2022: Issue 4; UxC Uranium Market Outlook, Q4 2022; Broker forecasts: BofA, Bell Potter, BMO, Cannacord, Investec, Macquarie, Morgan Stanley, Liberum Capital, RBC Capital Markets, Shaw & Partners and UBS, 2022

^{2.} TradeTech as at 31 January 2023







A quality global suite of exploration assets







Globally significant, high-grade exploration portfolio



Extensive historical exploration activity with over US\$140M previously spent



Diverse portfolio of assets provides optionality



Exploration activity has re-commenced at Michelin with activities focused on development pathways and regional exploration opportunities



Paladin will continue to pursue a disciplined approach to exploration activity whilst assessing global opportunities

¹ See the "About Paladin" section for more information and Mineral Resource Tables; ² Measured, Indicated and Inferred Mineral Resources for the Michelin, Mount Isa and Manyingee & Carley Bore Projects on a 100% Project basis as at 30 June 2021

Michelin uranium project¹ (70% Paladin ownership)



Exploration activities at the Michelin Project (Labrador, Canada)

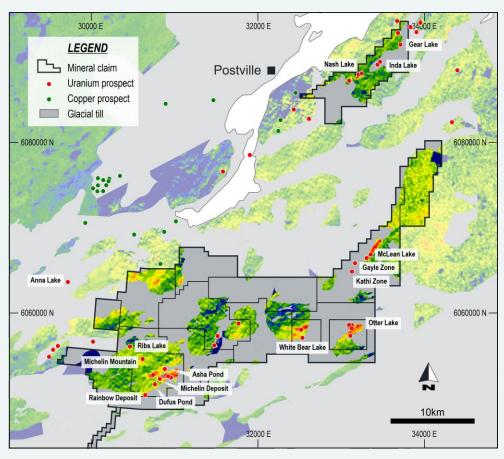
• Activity at the Michelin project has a dual-track workstream focused on defining development pathways and improving the understanding of the regional exploration potential

Development pathway

- Rework of the 2009 concept study incorporating up to date pricing, technology and geological understanding
- Opportunity for a staged development given the extensive nature of tenements and the potential for shallow lying deposits. 80% of tenements under thin glacial cover with limited historical drilling in those areas
- Potential for shallow deposits to reduce capital costs and development timeframes

Exploration pathway

- On-ground review of historic data and work completed
- Mapping of the structural architecture of prospective areas within the tenement group at the Michelin Project undertaken
- Airborne gravity-gradiometry survey conducted, with analysis of results from the survey and mapping nearing completion and to be used to finalise plans for the drilling program during FY2024
- Global-scale Rare Earth Element deposits present in the region with knowledge to be extended via review of existing core samples at Michelin



Michelin upside potential

Tenement area shown by black outline; image is U^2/Th radiometrics; glacial till cover shown in grey; deposits known in areas of outcrop where there is no till cover

¹ The sales process has commenced for the Michelin Project as required under the terms of the Michelin Joint Venture Agreement. Paladin has the right, acting reasonably, to determine if the terms of any offer made under the sales process are acceptable. Paladin also has a right of pre-emption to acquire the Michelin Joint Venture partner's interest in the Project



Clean energy. Clear future.



Returning the Langer Heinrich Mine to production

- Project fully funded and on track
- Low risk Restart project with well defined scope and strong project execution team
- First production targeted for Q1 CY2024

Cornerstone offtakes secured and strong uranium market

- Offtakes secured with leading global counterparties
- Structural supply deficits and growing demand
- Global marketing team pursuing further offtake opportunities

Balance sheet strength and financial discipline

- US\$163M¹ in net cash
- No corporate debt
- Disciplined approach to growth plans providing future optionality and value

Sustainable future

- Resourcing a carbon free future
- Committed to delivering value through sustainable development
- Focus on delivering shareholder value

^{1.} As at 31 December 2022



Paladin Board and CEO





Cliff Lawrenson
Non-Executive Chairman

Mining executive with deep expertise in the minerals and energy sectors derived from global experience having worked extensively in project development and investment banking. A successful track record of leading strategic direction in companies and executing corporate transactions.



Melissa Holzberger Non-Executive Director

Commercial and mining lawyer with significant experience in the energy and resources sector, including the uranium industry. She is an experienced company director having served on ASX-listed, public, government and not-for-profit boards spanning a wide range of sectors. She brings legal, risk, compliance, corporate ethics and corporate governance expertise.



Peter Main
Non-Executive Director

Mining and financial experience spanning more than 30 years. Peter's experience is wide and diverse with the major focus in senior management roles in mining and investment banking. A proven international track record in equity capital markets and sales and trading spanning more than two decades.



Joanne Palmer Non-Executive Director

A registered Company Auditor, a Fellow of the Institute of Chartered Accountants in Australia, England and Wales and was previously an Assurance Partner at EY. She brings over 25 years of industry experience providing audit and assurance services on company listings, mergers, acquisitions and takeovers and significant experience in auditing international mining companies.



Peter Watson
Non-Executive Director

Chemical engineer with extensive experience in the global resources sector across senior technical, project, and management roles as well as running ASX-listed companies. His experience includes project development, project delivery, asset optimization and mining facilities operations across multiple commodities and global jurisdictions.



Ian Purdy Chief Executive Officer

Highly-respected executive with over three decades' experience managing and optimising operations, delivering large projects, executing on business improvements and asset sales, with extensive capital markets and funding experience within Australian and international resources companies.

Paladin Executive Team







Corporate finance professional with over 25 years' experience in funding execution, commercial management, accounting finance and treasury across the energy and resources sectors in international jurisdictions.



Paul Hemburrow Chief Operating Officer

Senior Operations Executive with over 30 years experience in the resource industry, covering multiple commodities in mining, processing, port operations and rail in complex operating environments.



Alex Rybak Senior Vice President Marketing & Business Development

Mergers & Acquisitions, Business Development and Strategy professional with over 20 years of in-house and investment banking experience across a broad range of sectors including energy and resources.



Jess Oram Senior Vice President Exploration

An experienced exploration geologist with 30 years experience in mineral exploration and management experience across the uranium exploration and mineral discovery sectors.



Johan Roux General Manager Langer Heinrich

Legal professional with over 30 years' experience in the management of corporate, labour, mining, commercial, human resources and legal compliance laws in Namibia and South Africa.



Johan Coetzee Project Director Langer Heinrich Restart Project

Johan has nearly 30 years of global experience in delivering end-to-end project management and operational activities across the resources, infrastructure and related industries.

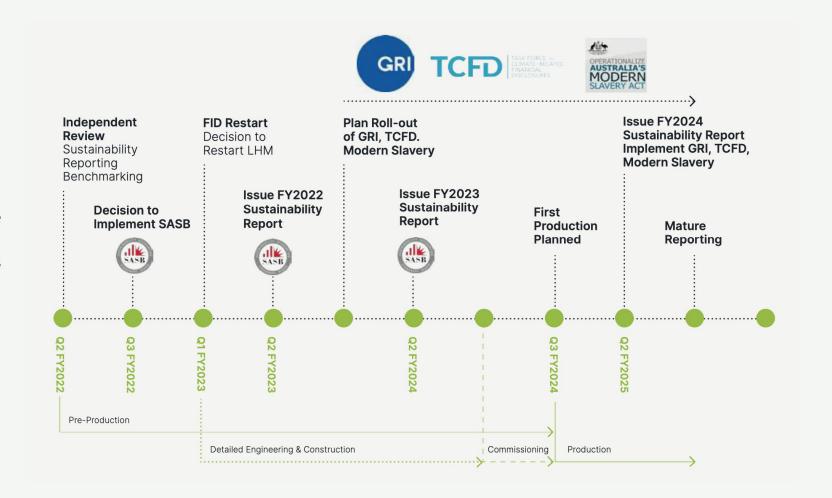
Paladin's Sustainability Reporting Road Map



Paladin has adopted and implemented the Sustainability Accounting Standards Board (SASB) framework, with the 2022 Sustainability Report being released in October 2022

Following the decision to return the LHM to production, the Company will incorporate the Global Reporting Initiative (GRI) standards and Task Force on Climate-related Disclosures (TCFD) framework for implementation from first production at the LHM

Paladin will comply with all reporting and requirements under the *Modern Slavery Act* 2018 (Cth), including the maintenance of responsible and transparent supply chains, when production recommences in CY2024



Paladin is committed to implementing leading ESG reporting frameworks



As Paladin moves towards production, the structured implementation of these three reporting frameworks (SASB, GRI and TCFD) will increase the level of detail reported over time, and will provide a more complete representation of Paladin's performance to all key stakeholders.

Combining the complimentary SASB / GRI / TCFD frameworks provides a comprehensive integrated sustainability reporting framework:



Paladin has undertaken a materiality assessment and identified material topics and priorities relevant during the Company's pre-production, and production phases:

Material Topics & Priorities	Environmental	Social	Governance
Pre-production	Biodiversity Tailings Management Rehabilitation	Occupational Health and Safety Radiation Diversity Community and Stakeholder Relations	Corporate Governance Business Ethics and Transparency Risk Management Cyber Security Tax Transparency
Production	Air Quality Water Management Waste Management Energy Management Greenhouse Gas Emissions Land Disturbance	Nuclear Safeguards Product Safety and Transportation Labour Practices Employee Opportunities Relationships with Indigenous People	GRI TCFD Modern Slavery Reporting





LHM Restart Project photos





Cyclone cluster pump & pipe removal



Mass Safe Start meeting



Reinstatement of potable water system

LHM Restart Project photos





Successful stripping of slurry pump for refurbishment



Cleaning of motor control centre (MCC) and precipitation bund



Inspection of Scrubber 3



Hydrosort final component assemblies



Hydrosort screen assembly

Michelin Summer Exploration Field Program photos



Helicopter approaching Michelin summer camp



Helicopter induction briefing

Exploration team at Michelin





Michelin summer camp accommodation

Mineral Resources and Ore Reserves – Langer Heinrich



Summary Mineral Resources¹

Location	Classification	Millions of Tonnes (Mt)	Grade U₃O ₈ (ppm)	Contained U ₃ O ₈ (Mlb)	Grade V₂O₅ (ppm)	Contained V ₂ O ₅ (Mlb)
In situ -open pit	Measured	79.1	450	78.6	145	25.5
In situ -open pit	Indicated	23.5	375	19.5	120	6.3
In situ -open pit	Inferred	11.0	345	8.4	115	2.7
Total In situ	All	113.6	425	106.5	140	34.5
MG ² stockpiles	Measured	6.3	510	7.1	165	2.3
LG ³ stockpiles	Measured	20.2	325	14.5	105	4.7
Total	All	140.1	415	128.1	135	41.5

Summary Ore Reserves¹

Location	Classification	Millions of Tonnes (Mt)	Grade U ₃ O ₈ (ppm)	Contained U ₃ O ₈ (Mlb)
In situ -open pit	Proved	48.3	488	52.0
In situ -open pit	Probable	10.0	464	10.2
Stockpiles	Proved	26.5	369	21.6
Total	All	84.8	448	83.8

Mineral Resources

Notes: 200ppm U308 cut-off applied to in-situ Mineral Resources – 250ppm U308 cut-off applied to stockpiles at the time of mining. Mineral Resources reported on a 100% ownership basis, of which Paladin has a 75% interest. The Measured and Indicated U308 Mineral Resources are inclusive of those Mineral Resources modified to produce the Ore Reserves (as reported above). Depleted for mining. Tonnage information has been rounded and as a result the figures may not add up to the totals quoted.

¹- Refer ASX Announcement "Langer Heinrich Mine Restart Plan Update, Mineral Resource and Ore Reserve Update" dated 4 November 2021. ²- "MG" refers to medium grade. ³- "LG" refers to low grade

Ore Reserves

Notes: Ore Reserves are reported on a dry basis. Proved Ore Reserves are inclusive of ore stockpiles. 250ppm cut-off applied. Tonnage figures have been rounded and may not add up to the totals quoted. Ore Reserves reported on a 100% ownership basis, of which Paladin has a 75% interest. Vanadium does not report to Ore Reserves. 1. Refer ASX Announcement "Langer Heinrich Mine Restart Plan Update, Mineral Resource and Ore Reserve Update" dated 4 November 2021

Mineral Resources table – Canadian exploration portfolio



Mineral Resources		Mt	Grade ppm U₃O ₈	Mlb U ₃ O ₈ (100% basis)	Paladin Ownership (%)
Canada					
Measured	Michelin ¹	17.6	965	37.6	70
	Rainbow ²	0.2	920	0.4	70
Indicated	Gear ²	0.4	770	0.6	70
	Inda ²	1.2	690	1.8	70
	Jacques Lake ¹	13.0	630	18.0	70
	Michelin ¹	20.6	980	44.6	70
	Nash ²	0.7	830	1.2	70
	Rainbow ²	0.8	860	1.4	70
Inferred	Gear ²	0.3	920	0.6	70
	Inda ²	3.3	670	4.8	70
	Jacques Lake ¹	3.6	550	4.4	70
	Michelin ¹	4.5	985	9.9	70
	Nash ²	0.5	720	0.8	70
	Rainbow ²	0.9	810	1.6	70
Total Canada		67.7	860	127.7	70

Mineral Resources table – Australian exploration portfolio



Mineral Resources		Mt	Grade ppm U₃O ₈	Mlb U ₃ O ₈ (100% basis)	Paladin Ownership (%)
Australia					
Measured	Valhalla ¹	16.0	820	28.9	100
Indicated	Andersons ²	1.4	1,450	4.6	100
	Bikini ³	5.8	495	6.3	100
	Duke Batman ⁴	0.5	1,370	1.6	100
	Odin⁵	8.2	555	10.0	100
	Skal ⁶	14.3	640	20.2	100
	Valhalla ¹	18.6	840	34.5	100
	Carley Bore ⁷	5.4	420	5.0	100
	Manyingee ⁸	8.4	850	15.7	100
Inferred	Andersons ²	0.1	1,640	0.4	100
	Bikini ³	6.7	490	7.3	100
	Duke Batman ⁴	0.3	1,100	0.7	100
	Honey Pot ⁹	2.6	700	4.0	100
	Mirrioola ¹⁰	2.0	560	2.5	100
	Odin⁵	5.8	590	7.6	100
	Skal ⁶	1.4	520	1.6	100
	Valhalla ¹	9.1	640	12.8	100
	Watta ¹¹	5.6	400	5.0	100
	Warwai ¹¹	0.4	360	0.3	100
	Carley Bore ⁷	17.4	280	10.6	100
	Manyingee ⁸	5.4	850	10.2	100
Total Australia		135.4	635	189.8	100

Note: Values may not add due to rounding. ¹ Refer Announcement (ASX:SMM) dated 19 October 2010 "Resource Upgrade for the Valhalla Uranium Deposit" (reporting standard JORC 2004) ² Refer ASX Announcement dated 15 April 2011 "Quarterly Activities Report for period ending 31 March 2011 (reporting standard JORC 2004) ³ Refer ASX Announcement dated 15 April 2011 "Quarterly Activities Report for period ending 31 March 2011 (reporting standard JORC 2004) ⁵ Refer ASX Announcement dated 17 January 2012 "Quarterly Activities Report for period ending 31 December 2011" (reporting standard JORC 2004) ⁶ Refer ASX Announcement dated 13 July 2012 "Quarterly Activities Report for period ending 30 June 2012" (reporting standard JORC 2004) ⁷ Refer ASX Announcement (ASX:EMX) dated 12 February 2014 "Energia Delivers Significant Uranium Resource Upgrade" (reporting standard JORC 2012) ⁸ Refer ASX Announcement dated 14 January 2014 "Manyingee Minerals Resources - Amendment" (reporting standard JORC 2012) ⁹ Refer ASX Announcement dated 10 December 2008 "Maiden Uranium Resource at Valhalla North Project" (reporting standard JORC 2004) ¹⁰ Mirrisola - ASX Announcement dated 15 March 2012 "Half Year Financial Report – 31 December 2012, (reporting standard JORC 2004); Warwai - ASX Announcement Summit Resources Ltd dated 29 January 2013 "Half Year Financial Report – 31 December 2012 (reporting standard JORC 2004); Warwai - ASX Announcement Summit Resources Ltd dated 29 January 2013 "Half Year Financial Report – 31 December 2012 (reporting standard JORC 2004); Warwai - ASX Announcement Summit Resources Ltd dated 29 January 2013 "Half Year Financial Report – 31 December 2012 (reporting standard JORC 2004); Warwai - ASX Announcement Summit Resources Ltd dated 29 January 2013 "Half Year Financial Report – 31 December 2012 (reporting standard JORC 2004)



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