

DISCLAIMER and NOTES FOR JORC AND NI 43-101 MINERAL RESOURCES AND ORE RESERVES

- This presentation includes certain 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, exploitation activities and events or developments that Paladin Energy Ltd (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 those in the forward-looking statements. Factors that could cause actual results to differ materially from those in forward looking statements include market prices, exploitation and exploration successes, and continued availability of capital and financing and general economic, market or business conditions.
- Investors are cautioned that any such statements are not guarantees of future performance and actual results or developments may differ materially from those projected in the forward-looking statements. Readers should not place undue reliance on forward-looking information. The Company does not assume any obligation to update or revise its forward-looking statements, whether as a result of new information, future events or otherwise.
- In the following presentation, for those deposits that are reported as conforming to the Joint Ore Reserves Committee (JORC) 2004 or 2012 code, the terms Inferred Mineral Resources, Indicated Mineral Resources, Measured Mineral Resources, Ore Reserves, Proved Ore Reserves, Probable Ore Reserves and Competent Person are equivalent to the terms Inferred Mineral Resources, Indicated Mineral Resources, Measured Mineral Resources, Mineral Reserves, Proven Mineral Reserves, Probable Mineral Reserves and Qualified Person, respectively, used in Canadian National Instrument 43-101 (NI 43-101).
- The technical information in this is extracted from the report entitled Paladin Energy Ltd 2018 Annual Report released on 28 August 2018 and is available to view on <u>www.paladinenergy.com.au</u>. The company confirms that it is not aware of any new information or data that materially affect 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.
- Some of the information in this presentation, in relation to the mineral resources and ore reserves for all deposits except 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 JORC Code 2012 on the basis that the information that the estimates are derived from has not materially changed since it was last reported.



CORPORATE SNAPSHOT

CAPITAL STRUCTURE

As at 08/11/18	
Shares on issue	1,747.3M
Share price A\$	20.0c
Market capitalisation A\$	349.5M
Market capitalisation US\$1	254.3M
Cash US\$	30.6M
Debt US\$	122M
Enterprise value US\$	345.7M

MAJOR SHAREHOLDERS

As at 5/11/18

Tembo	13.0%
Paradice Investment Management	9.7%
Value Partners	8.8%
НОРИ	7.0%
RBC	5.7%
China Investment Corporation	5.6%

SHARE PRICE SINCE LISTING





THE URANIUM STORY IS COMPELLING

Spot uranium prices recovering from a 13-year low

- Growth in China, India and elsewhere means the nuclear power industry is consuming more uranium than pre-Fukushima
- Utilities have been "under buying" at an average rate of more than 100Mlbs less per year than consumption – running down stockpiles and contract positions put in place pre-Fukushima when European and U.S. utilities worried about market tightness due to rapid China growth
- Mined supply is being rapidly cut back



Spot Price 2013-2018



Source: - UxC, TradeTech and Paladin Research

Underlying estimated uranium use based on nuclear power generation



REDUCED CONTRACTING LEVELS CANNOT CONTINUE

Future Contracted Coverage Rates of US & European Utilities





Sources: (1) EIA Uranium Marketing Annual Report 2017 (2) Euratom Supply Agency Annual Report 2017



IT'S ALL ABOUT SUPPLY

- +35Mlbs taken out of the market in recent years
- Significant decrease in exploration spend since Fukushima
- New Project Development timelines stretched:
 - Majority are still very much in the early stages of development
 - Require significantly higher incentive prices
 - Production from new mines will be many years after incentive prices reached
 - Permitting uncertainty remains in many jurisdictions
- Global mine supply now structurally impaired and unable to respond in time to price increases. Potential for price spikes.
- When long-term contracting returns to historical levels, enrichment tails will increase, reducing the contribution of secondaries to the market
- Supply shock impact exacerbated by US utilities reluctance to contract whilst s232 petition unresolved – final decision expected mid 2019.
- Mines currently on care and maintenance have a restart timeline advantage

POSSIBLE OUTLOOK – MID LEVEL GROWTH

- Care and maintenance supply expected to come back online if prices lift to US\$40-50/lb range
- The industry also needs additional new growth from mining before 2021 this requires incentive prices of US\$60-80/lb (i.e. 2-3 x current price levels)
- In reality, the downtrend has been so long and deep, it will be difficult for the industry to meet medium term demand and conditions are in place for an "overshoot"





a strategic tier-one asset at LANGER HEINRICH

A low cost, long life uranium mine



KEY ACTIVITES UNDERWAY

• Operational Review of Langer Heinrich Mine

- Study team has been assembled
- Concept Study is currently underway
- Studies will examine improving the existing base operation, lowering operating costs, increasing recoveries and throughput and the potential for vanadium recovery
- Refine the restart plan
- Concept study targeted for completion Q3 FY2019



FUTURE OPTIMISATION POTENTIAL

BACK END UPGRADE PROJECT (BUP)

- The BUP will utilise the existing Langer Heinrich Mine process across the Beneficiation, Leach, CCD and TSF areas with relatively minor changes
- The PLS to be treated via a substantially new process that has been divided into the following process areas:
 - PLS concentration
 - Vanadium precipitation
 - Uranium precipitation
 - Causticisation & carbonation
 - Crystallisation
 - Vanadium refinery
 - Uranium refinery
- BUP has completed the R&D phase with material benefits identified across the operations including;
 - Potential to reduce process cost by US\$4-5/lb
 - Vanadium produced as a co-product for sale
 - Process more stable and operability improved

BENEFICAITION

- Paladin is reviewing available third-party beneficiation technologies to assess benefits to the Langer process
- Paladin is also evaluating the significant body of beneficiation performance and test work data developed by the Paladin team during operations in the Company's dedicated metallurgical laboratory at Langer Heinrich
- The aim of both these lines of investigation is to increase production, potentially lower operating costs and improve the ability to economically process the remaining available mineral resources at Langer Heinrich including low-grade stockpiles
- Potential to increase production by 1.5-1.8Mlb pa and reduce average costs by US\$1-2/lb





VANADIUM - A NEW HORIZON?

- Opportunity to produce Vanadium at LHM
- Estimated resource grade 150ppm
- Potential economic, marketing and environmental benefits
- Significant price increase due to usage within vanadium redox flow batteries
- Future demand is expected to rise due to supply constraints



*Vanadium Price V*₂*O*₅*Flake 98%*

so what's ahead for PALADIN?

New management, ready to re-start production, diverse portfolio, attracting value

WE'VE GREATLY REDUCED COSTS

EXPLORATION

- Exploration costs will reflect the work required to meet minimum tenement commitments
- Includes 100% spend for the Michelin Project

CORPORATE COSTS

- All non-essential expenditure continues to be reduced
- No change to recently reduced corporate staffing levels
- Does not include spend for optimisation/restart studies

LHM CARE & MAINTENANCE COSTS

- Predominant costs associated with staffing
- Costs will continue to be scrutinised without compromising the asset

KM CARE & MAINTENANCE COSTS

- Predominant costs associated with power and water treatment (c.US\$3.1M)
- Higher than expected rainfall can result in increased power costs for water treatment

Total Ongoing Annual Costs *



~ US\$1.5Mpa

~ US\$4.0Mpa

~ US\$3.5Mpa

~ US\$5.0Mpa

~ US\$14Mpa



STRATEGY

- Focus on optimizing and restarting LHM
- Progress feasibility studies centred on lowering costs, improving recoveries, increasing throughputs and potential vanadium production
- Leverage increases in the uranium price to create value propositions for Paladin's leading global resource base
- Maintain KM, exploration, corporate on a minimal expenditure, care and maintenance basis





Green Shoots Everywhere

- IPCC REPORT Global warming increase by 1.5°C by 2030
 - China Plans to have 56 reactors operating by 2020 and 180 reactors, or 400% increase, by 2030 to reduce its reliance on coal
 - India following suit with 300% increase
 - 17 new reactors in Saudi Arabia announced
- Demonstrated willingness of supply to self correct
- Lack of exploration and near term options
- Kazakhstan 38% of world production
 - Reduce growth plans 20%
 - Align with global marketing practices
 - IPO of up to 25% increased transparency for the industry
- The level of reactor fuel requirements covered under contract is decreasing – not sustainable



THE GOOD, THE BAD AND THE UGLY: LIMITING TEMPERATURE RISE TO 1.5°C



PALADIN ENERGY LTD



PALADIN ENERGY LTD

CONTACT US

Head Office Level 4, 502 Hay Street Subiaco Western Australia 6008 PO Box 201, Subiaco Western Australia 6904

T: +61 (0) 8 9381 4366 E: paladin@paladinenergy.com.au

Investor Relations Karen Oswald T: +61 (0) 423 602 353 E: karen@paladinenergy.com.au

www.paladinenergy.com.au

APPENDIX: RESOURCE & RESERVE TABLES

					Mineral Resources		30-Jun-18 M tonnes grade % U ₃ O ₈ Mib U ₃ O ₈ Paladin Ownership %				
		30-Jun-18			Canada		in tonnoo	B.000 % 0308	1110 0308	1 diadin o miolomp	
					Measured	Michelin	17.62	0.097	37.6	50	
						Rainbow	0.21	0.092	0.4	50	
				Deledia Ovacabla	Indicated	Gear	0.35	0.077	0.6	50	
Ore Reserves	M tonnes	grade % U ₃ O ₈	MIb U ₃ O ₈	Paladin Ownership		Inda	1.2	0.069	1.8	50	
				70		Jacques Lake	12.96	0.063	18.0	50	
			Michelin	20.65	0.098	44.6	50				
						Nash	0.68	0.083	1.2	50	
					h fe and	Rainbow Gear	0.76	0.086	1.4	50	
					Inferred	Gear Inda	0.3 3.26	0.093	0.6	50 50	
							3.20	0.055	4.8 4.4	50	
Malawi					Jacques Lake Michelin	4.54	0.099	4.4 9.9	50		
							4.54	0.099	9.9 0.8	50	
						Nash Rainbow	0.91	0.072	0.8 1.6	50 50	
Proven Kayelekera	0.39	0.117	1.0	85	Total Canada	Railibow	67.56	0.082	1.0	50	
nayolokola	0.00	0.111	110		Malawi		07.50	0.086	127.7		
Deskahle Kas II	5.04	0.000	10.4		Measured	Kayelekera	0.74	0.101	1.7	85	
Probable Kayelekera	5.34	0.088	10.4	85	Indicated	Kayelekera	12.71	0.101	19.6	85	
				Inferred	Kayelekera	5.35	0.062	7.4	85		
					Stockpiles	Kayelekera	1.59	0.076	2.6	85	
Stockpiles Kayelekera	1.59	0.076	2.6	85	Total Malawi	hajolohora	20.39	0.070	31.3		
				Namibia		20100	01010	0110			
					Measured	Langer Heinrich	60.71	0.051	68.7	75	
Kayelekera Total					Indicated	Langer Heinrich	21.48	0.046	21.7	75	
	7.32	0.087	14.0		Inferred	Langer Heinrich	8.70	0.047	9.0	75	
					Stockpiles	Langer Heinrich	30.78	0.035	24.0	75	
No					Total Namibia		121.67	0.046	123.5		
					Australia					A 1999	
Namibia					Measured	Valhalla	16.02	0.082	28.9	91	
					Indicated	Andersons	1.4	0.145	4.6	82	
Proven Langer Heinrich 41.9						Bikini	5.77	0.050	6.3	82	
	/11 97	0.052	48.5	75		Duke Batman	0.53	0.137	1.6	100	
	41.57	0.032	40.5	15		Odin	8.2	0.055	10.0	91	
						Skal	14.3	0.064	20.2	91	
						Valhalla	18.64	0.084	34.5	91	
Probable Langer Heinrich	13.14	0.048	14.0	75		Carley Bore	5.4	0.042	5.0	100	
		01010	1.110			Manyingee	8.37	0.085	15.7	100	
					Inferred	Andersons	0.1	0.164	0.4	82	
Stockpiles Langer Heinrich	30.78	0.035	24.0	75		Bikini	6.7	0.049	7.3	82	
	50.70	0.055	24.0	15		Duke Batman	0.29	0.110	0.7	100	
					Honey Pot	2.56	0.070	4.0	100		
						Mirrioola	2 5.8	0.056	2.5	82	
Langer Heinrich Total	85.89	0.046	86.6			Odin Skal	5.8 1.4	0.059	7.6	91	
	00.09	0.040	00.0			Valhalla		0.052	1.6	91	
						Watta	9.1 5.6	0.064 0.040	12.8 5.0	91 82	
							5.6 0.4		5.0 0.3		
						Warwai Carlov Poro	0.4 17.4	0.036 0.028	0.3 10.6	82 100	
						Carley Bore Manyingee	5.41	0.028	10.6	100	
PALADIN					Total Australia	Wanyingee	135.39	0.085	189.9	100	
				—	างเขากันรับขาย		155.55	0.004	103.3		
	NENEDOVI	TD			Global Total		345.01	0.062	472.3		
PALADIN ENERGY LTD					GIODAI I OTAI		345.01	0.062	472.3	17	