



**Kayelekera**  
**Proven Uranium**  
**Producer**

**September 2021**  
**Non-Deal Institutional Roadshow**  
**Europe & North America**  
**LOT.ASX    OTCQB: LTSRF**

# Important Notice



## **FORWARD LOOKING STATEMENT**

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Assumptions have been made regarding, among other things: the uranium market information, the Company's peers, the Company's ability to carry on its future exploration, development and production activities, the timely receipt of required approvals, the price of uranium, the ability of the Company to operate in a safe, efficient and effective manner and the ability of the Company to obtain financing as and when required and on reasonable terms. Readers are cautioned that the foregoing list is not exhaustive of all factors and assumptions which may have been used.

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## **SCOPING STUDY**

For information in this document relating to the Restart Scoping Study, refer to ASX announcement dated 20 October 2020. The Company confirms that in relation to the Restart Scoping Study announced on 20 October 2020, it is not aware of any new information or data that materially affects the information included in the original market announcement and that all material assumptions underpinning the forecast financial information included in that announcement continue to apply and have not materially changed.

## **MINERAL RESOURCE (JORC 2012)**

For information relating to the Mineral Resource Estimate in this document, refer to ASX announcements dated 26 March 2020 and 24 June 2019. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements and that all material assumptions and technical parameters underpinning the estimates in the relevant market announcements 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 been materially modified from the original market announcements; and that the information in the announcement relating to exploration results is based upon, and fairly represents the information and supporting documentation prepared by the named Competent Persons.

## **EXPLORATION RESULTS**

The information in this Presentation that relates to exploration results at the Company's Kayelekera project in Malawi references ASX announcements dated 16 December 2020, 1 February 2021, 24 June 2021 and 16 September 2021. Lotus confirms that it is not aware of any new information or data that materially affects the information included in those announcements.



*Lotus aspires to be a responsible uranium producer, building strong local communities, a safe and healthy work environment and making a positive contribution to a carbon free future*

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# Kayelekera is a proven uranium producer



## LOW-COST, PROVEN URANIUM PRODUCING ASSET

US\$50m initial capex to recommence production<sup>1</sup> – one of the lowest in the industry

- Definitive Feasibility Study commenced – expected mid-2022
- Name plate production – 3Mlbs per annum<sup>1</sup>

## FAST TRACK TO PRODUCTION

4<sup>th</sup> largest brownfield uranium assets on care and maintenance with PROVEN COMMERCIAL PRODUCTION history<sup>2</sup> that can be fast tracked to production

- 11Mlbs of historical uranium production over four years
- US\$200m spent on infrastructure at Kayelekera – in good condition
- Strong support from the Malawi Government to recommence production

## EXPLORATION UPSIDE WITH DRILLING UNDERWAY

Existing resource of 37.5Mlb<sup>3</sup> with limited exploration for the past 20 years

- Multiple near mine targets identified – drilling commenced
- Milenje Hills high-grade Rare Earth (NdPr) discovery<sup>3</sup> – drilling commenced

## STRONG FINANCIAL POSITION

Fully funded until 2023 with a strong institutional share base

## CAPITAL STRUCTURE

**A\$320M**

US\$235M  
MARKET CAP  
At \$0.27 / share

**A\$28M**

US\$21M  
CASH – JUNE 2021  
Unrestricted (A\$15m/US\$11M)  
Restricted (A\$13m/US\$10M)

**1,186M**  
SHARES ON ISSUE

**61M**  
OPTIONS



# The Perfect Storm – Short and long-term catalysts



**Sprott**

**Sprott Physical Uranium Trust (SPUT)**



**Uranium is the only sustainable zero carbon baseload energy source**



**Electrification revolution**  
- Global growth in GDP  
- EVs



**Forecast Supply & demand imbalance**  
- Min. 30MLbs in 2024  
- Min. 60MLbs in 2028



**Utilities required to re-enter term contracts**



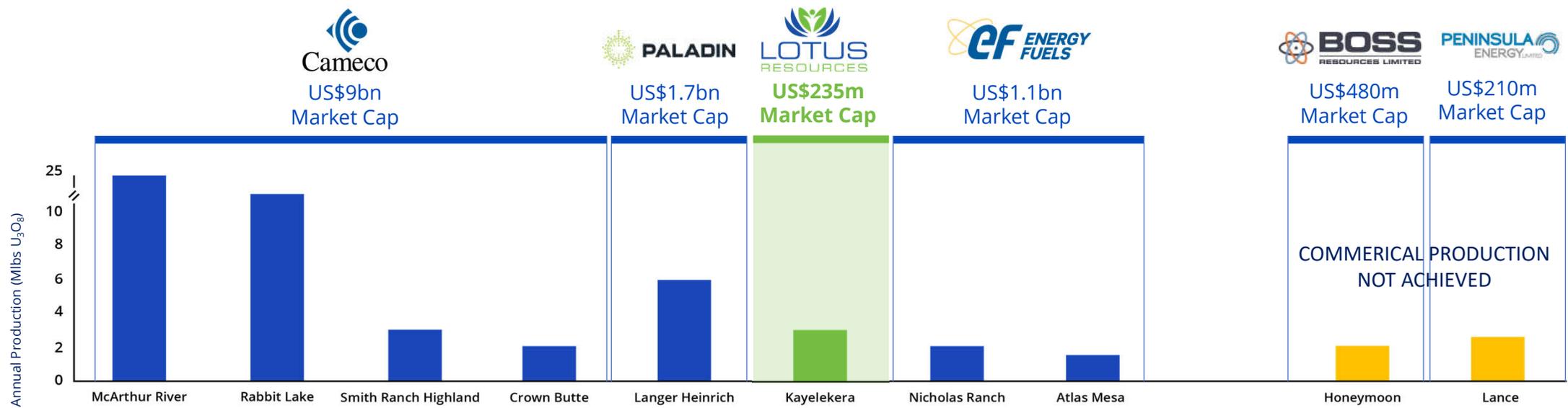
**Current pricing too low to encourage new production – can't commence without term contracts**

# Brownfield assets to be the first to react to increased demand



## Brownfield uranium assets offer significantly lower risk compared to new development assets

- Proven COMMERCIAL production history
- Infrastructure and licensing in place
- Lower capital requirement and quicker re-start compared to new developments
- **LOTUS** is at a significant discount compared to its peers despite being the 4<sup>th</sup> largest PROVEN producing uranium asset



LARGEST ASSETS ON C&M THAT ACHIEVED COMMERCIAL PRODUCTION<sup>2</sup>

1. Refer to Appendix 1 and Appendix 2 for Company and asset information; 2 - 8 largest care and maintenance assets not owned by majority State enterprises

# Kayelekera – A proven 3Mlbs uranium producing asset



## Infrastructure

1.4Mtpa processing facility in place

## New Processes

Improved project economics

## Licences in place

Mining and Exploration licences renewed

## Exploration

Multiple near mine untested targets

# Pathway to recommence production at Kayelekera



## Definitive Feasibility Study underway

- Solid platform outlined – Re-Start Scoping Study (October 2020)<sup>1</sup>
  - *US\$50m Initial capital cost – one of the lowest in the industry*
  - *14-year life of mine producing 23.8Mlbs U<sub>3</sub>O<sub>8</sub> (ave. feed ~680ppm U<sub>3</sub>O<sub>8</sub>)*
  - *Costing assumptions based on ACTUAL results from previous operations*
- Name plate production capacity at Kayelekera – 3Mlbs/annum
  - *1.4Mtpa processing facility, tailings, and accommodation camp in place*
- Technologies and other alternatives not available during the previous operation have been identified
- Technical studies indicated significant operating and capital cost savings
  - *Ore sorting*
  - *Power supply*
  - *Acid recovery and leach optimization*
  - *Tailings disposal options – US\$20M sustaining capital saving potential*
- Definitive Feasibility Study expected to be completed by mid-2022



1. LOT ASX announcement 20<sup>th</sup> October 2020

# Ore Sorting **enhances** output and economic returns



- Significant opportunity, but not required to recommence production
- Technology advanced significantly during the past decade
- Commercially proven at multiple mining operations globally
  - *Nickel in Western Australia*
  - *Gold – multiple operations globally*
- Two rounds of test work on ~500kg (STEINERT)
  - *Two sensors (colour and density) on commercial scale unit*
- Grades of the ore increased by up to 100% compared to the feed sample

## **Multiple positive impacts on the Project**

- Increase annual production to nameplate (3Mlbs/annum)
  - *Ore sorter unit cost – US\$2M to US\$3M*
- Extended mine life
  - *Convert low-grade marginal material (400ppm) to more economic feed*
- Decreased operating costs (target <US\$30/lb)
  - *Increased head-grade*
  - *Reduced reagent consumption, improved energy efficiency and reduced water consumption*



# New power supply options with major CO<sup>2</sup> reduction



- Previous operations at Kayelekera powered by diesel generators – this was the only viable option available
  - *Maximum CO<sub>2</sub> emissions*
- Power historically accounted for 15% of total costs
  - *Estimated historical power cost US\$0.28 – \$0.32 /kWh*

## Innovation and advancements driving reductions

- Lotus has significantly advanced a Power Assessment Study reviewing a number of power solutions
  - *Connect to the national grid*
  - *Generate power from the excess steam produced in onsite acid plant*
  - *Renewable energy sources*
- The optimal power solution will both significantly reduce CO<sub>2</sub> emissions and costs compared to the previous operation
- Power Assessment study expected 2H21



# Untested uranium targets and Rare Earth potential



- Kayelekera has a total mineral endowment of ~50Mlbs based on current resource (37.5Mlbs)<sup>1</sup> and historical production (11Mlbs)
  - *Minimal exploration in last 20 years, despite multiple near mine targets*
- 5,000 metre RC drilling program underway
  - *Focused on pit resource extensions and near mine "satellite" anomalies*

## Significant Greenfields potential to be tested – 675km<sup>2</sup> package

- Little to no drilling outside of existing Mining Licence
- Ongoing discussions regarding advanced, nearby projects

## Milenje Hills high-grade Rare Earth Oxides (REO)<sup>1</sup>

- 2020 - high-grade material of up to 16% (Av. 8%) TREO<sup>1</sup> and 3.4% (Av. 1.6%) CREO<sup>1</sup>
- Highly desirable assemblage – Neodymium and Praseodymium oxides represent on average ~20% of the TREO
  - *Nd and Pr (along with Dy and Tb) are essential for the manufacture of permanent magnetics, which make-up ~90% of the value of the REO market.*
- Inaugural Rare Earths drill program underway
  - *Assess the path forward to crystallise value for shareholders following results*



# Ensuring a lasting and positive impact on Malawi



## Environmental, Social, and Governance (ESG)

*Lotus aspires to be a responsible uranium producer, building strong local communities, a safe and healthy work environment and making a positive contribution to a carbon free future*

- Lotus has committed to developing the Kayelekera Project to support the United Nations' 17 Sustainable Development Goals
- Global Reporting Initiative Standards to be used as a guide to measuring ESG progress.
  - *Leading practice for ESG reporting globally, used by 66% of ASX100 companies.*
  - *Lotus committed to reporting against these standards in the future to meet the expectations of all stakeholders in a transparent and accountable manner.*
- Lotus has engaged with a range of stakeholders to develop a list of ESG priorities
  - *Lotus has produced a materiality matrix to prioritise the most-pressing ESG issues to be addressed*
- Inaugural Sustainability Report – expected 2H21



# Lotus is positioned for the next uranium cycle

**Proven production**  
11Mlb of historical supply with sales to major utilities

**Strong cash position**  
Cash reserves until 2023

**Valuation Upside**  
Valuation discount compared to peers

**Board and management team**  
Extensive African and uranium experience

**Existing infrastructure**  
Low capex to recommence production



## CAPITAL STRUCTURE

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US\$235M  
**MARKET CAP**  
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**61M**

**OPTIONS<sup>1</sup>**

## 21/22 TARGETS

**Exploration Results**



**Ore sorting / Power Study updates**



**On-going discussions with utilities**



**Definitive Feasibility Study**

1 – Exercise prices range from \$0.00 to \$0.08



## CONTACT

**Keith Bowes**  
Managing Director

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West Perth  
WA 6005

For further information visit:  
[www.lotusresources.com.au](http://www.lotusresources.com.au)



# Appendix 1 - Significant valuation gap to peers<sup>1</sup>

Spreadsheet assumptions are not always achieved on a mine site



										
Ticker	LTSRF:OTC: LOT.ASX	PDN.ASX	EFR.TSX	BOE.ASX	PEN.ASX	URE.TSX	UEC.NYSE	BMN.ASX	DYL.ASX	VMY.ASX
Market Capitalisation (US\$ M)	US\$235M	US\$1,740M	US\$1,080M	US\$480M	US\$210M	US\$370M	US\$755M	US\$280M	US\$285M	US\$175M
Project Name (Main project only) / Country	Kayelekera, Malawi	Langer Heinrich, Namibia	White Mesa, USA	Honeymoon, Australia	Lance, USA	Lost Creek, USA	Hub & Spoke, USA	Etango, Namibia	Tumas, Namibia	Mulga Rock, Australia
Type of operation (OP / UG / ISR)	OP	OP	OP / UG / ISR	ISR	ISR	ISR	OP / UG / ISR	OP (HL)	OP	OP
<b>OPERATION HISTORY</b>										
Historically achieved forecasted production target?	Yes <sup>1</sup>	Yes <sup>1</sup>	Yes <sup>4</sup>	No <sup>2</sup>	No <sup>3</sup>	No <sup>4</sup>	No <sup>4</sup>	New Development	New Development	New Development
Number of year project historically operated	5 <sup>1</sup>	10 <sup>1</sup>	+30	2.5 <sup>2</sup>	3.5 <sup>3</sup>	6	2	NA	NA	NA
Total historical production (M lbs)	11 <sup>1</sup>	43 <sup>1</sup>	39	0.7 <sup>2</sup>	0.4 <sup>3</sup>	2.6	0.3	NA	NA	NA
<b>FUTURE STRATEGY &amp; FORECASTS</b>										
Forecasted annual production (Mlbs)	3 Mlbs pa	5.9 Mlbs pa	NA Focus on Rare Earths?	2.0 Mlbs pa	2.3 Mlbs pa	1.5 Mlbs pa	2.0 Mlbs	3.5 Mlbs pa	2.5 Mlbs pa	3.5 Mlbs pa
Head grade (ppm) Mining phase / Stockpiles	898ppm	593ppm	NA	ISR - NA	ISR - NA	ISR - NA	ISR - NA	232ppm	344ppm	768ppm
Initial Capital Cost (US \$ M)	\$50	\$81	NA	\$63	\$119	\$41	NA	\$274	\$295	\$255
Capital intensity (US\$ / lb)	\$21	\$14	NA	\$32	\$52	\$27	NA	\$78	\$118	\$73

1 – Annual and quarterly reports PDN.ASX; 2 – MDA reports Uranium One; 3 – Annual and quarterly reports – PEN.ASX; 4 – Company's historical MDA reports – SEDAR

# Appendix 1 - Significant valuation gap to peers<sup>1</sup>

## Continued – Global Uranium Development companies

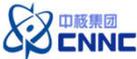


Ticker	LTSRF:OTC: LOT.ASX	PDN.ASX	EFR.TSX	BOE.ASX	PEN.ASX	URE.TSX	UEC.NYSE	BMN.ASX	DYL.ASX	VMY.ASX
Project Name (Main project only) / Country	Kayelekera, Malawi	Langer Heinrich, Namibia	White Mesa, USA	Honeymoon, Australia	Lance, USA	Lost Creek, USA	Hub & Spoke, USA	Etango, Namibia	Tumas, Namibia	Mulga Rock, Australia
% Ownership	85%	75%	100%	100%	100%	100%	100%	95%	95%	100%
Type of operation (OP / UG / ISR)	OP	OP	OP / UG / ISR	ISR	ISR	ISR	OP / UG / ISR	OP (HL)	OP	OP
<b>RESOURCE – COMPANY TOTAL</b>										
Measured – contained (M lbs) / grade (ppm)	4 @ 850	96 @ 475	9 @ 1,780	8 @ 1,100	4 @ 489	2 @ 728	-	13 @ 219	11 @ 412	13 @ 1,100
Indicated – contained (M lbs) / grade (ppm)	27 @ 660	5 @ 520	69 @ 1,660	25 @ 630	12 @ 496	7 @ 455	58 @ 404	137 @ 217	122 @ 288	33 @ 790
Inferred – contained (M lbs) / grade (ppm)	6 @ 518	19 @ 325	49 @ 1,710	39 @ 570	38 @ 474	8 @ 460	45 @ 1,007	57 @ 226	63 @ 258	45 @ 432
Total – contained (M lbs) / grade (ppm)	38 @ 630	120 @ 445	128 @ 1,680	72 @ 620	54 @ 480	37 @ 585	104 @ 547	208 @ 220	195 @ 282	90 @ 570
Source document	Lotus Resource - Kayelekera Re-start study 20 October 2020	Paladin Energy - Langer Heinrich Mine Restart Study 30 June 2020	Energy Fuels – Corporate Presentation – Sept 2021	Boss Energy - Honeymoon Feasibility Study 21 January 2020	Pen Energy - Lance Project Feasibility Study 17 September 2018	Ur Energy Presentation – Sept 2021	UEC Presentation – September 2021	Bannerman Resources - Etango 8 PFS 2 August 2021	Deep Yellow - Tumas Prefeasibility Study 9 February 2021	Vimy Resources - Mulga Rock Definitive Feasibility 26 August 2020

# Appendix 2 - Brownfield Uranium Assets

## Top 10 brownfield C&M assets that achieved commercial production



										
Majority owned by state owned group	No	No	No	Yes	No	No	No	No	No	Yes
Project Name	Kayelekera	Langer Heinrich	Alta Mesa Project	Azelik Project	Nicholas Ranch Project	Rabbit Lake	McArthur River	Smith Ranch Highland	Crown Butte	Willow Creek
Country	Malawi	Namibia	USA	Niger	USA	Canada	Canada	USA	USA	USA
Measured – contained (M lbs) / grade (ppm)	4 @ 850	96 @ 475	1 @ 1,510	NA <sup>1</sup>	1 @ 1,400	-	325 @ 71,000	8 @ 1,100	6 @ 1,900	-
Indicated – contained (M lbs) / grade (ppm)	27 @ 660	5 @ 520	3 @ 1,070	NA <sup>1</sup>	5 @ 1,110	39 @ 9,500	75 @ 60,000	17 @ 500	7 @ 1,500	16 @ 750
Inferred – contained (M lbs) / grade (ppm)	6 @ 518	19 @ 325	17 @ 1,200	NA <sup>1</sup>	1 @ 990	34 @ 6,200	3 @ 28,500	8 @ 50	2 @ 1,600	0.1 @ 680
Total – contained (M lbs) / grade (ppm)	38 @ 630	120 @ 445	20 @ 1,180	NA <sup>1</sup>	7 @ 1,110	72 @ 7,600	404 @ 65,000	33 @ 570	16 @ 1,660	16 @ 750
Current capacity of processing facility	3.0	5.9	1.5	1.5	2.0	11.0	25.0	3.0	2.0	1.3
Source:	Kayelekera Updated Mineral Resource, March 2020	Langer Heinrich Mine Restart Plan Presentation, June 2020	Energy Fuels Annual information form & 43-101	NEA: Uranium 2018: Resources, Production and Demand	Energy Fuels AIF 2020 & 43-101	Cameco AIF - 2020	Uranium One Annual Report			

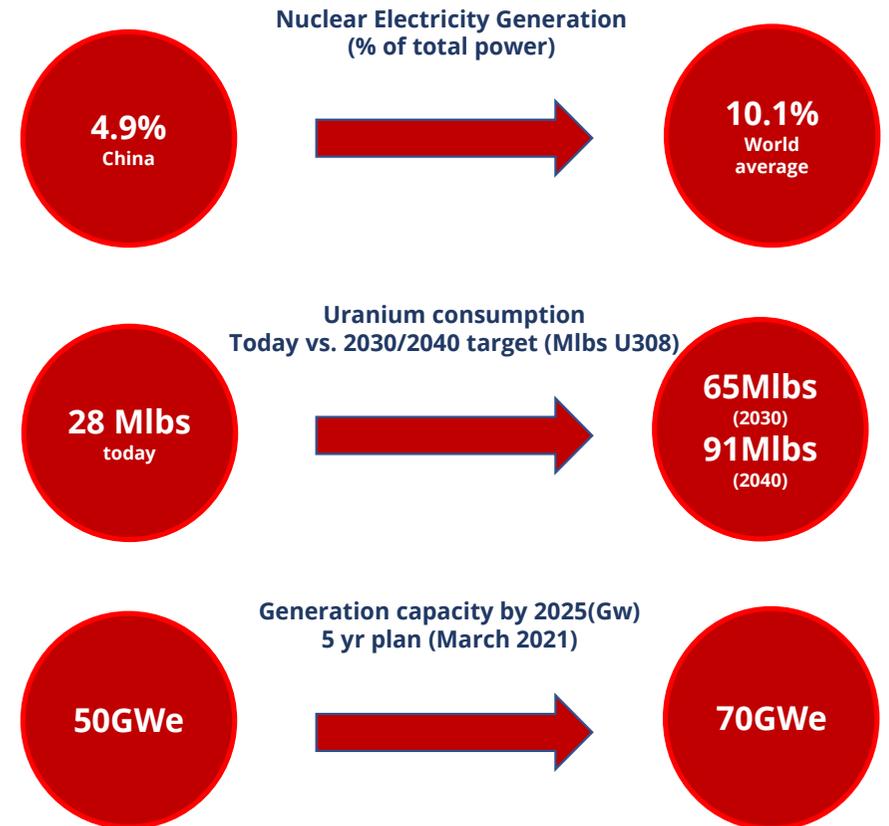
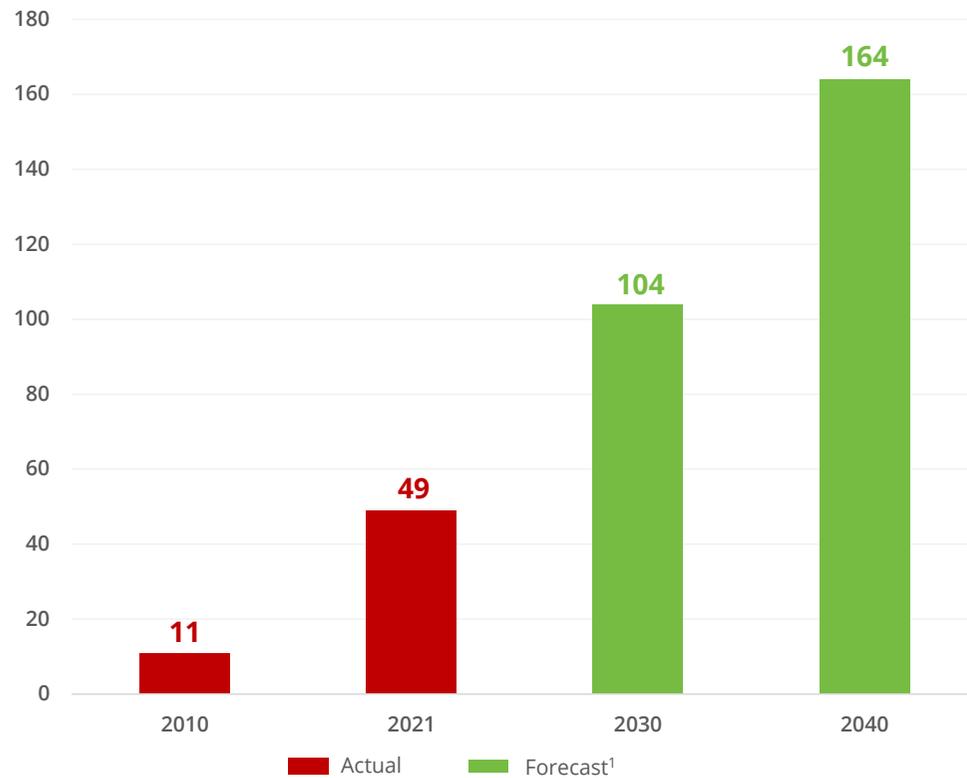
1 - See Appendix 1 for further information; NA1 – Non JORC Reporting – Chinese controlled asset

# Appendix 3

## China will be the largest consumer of uranium by 2030



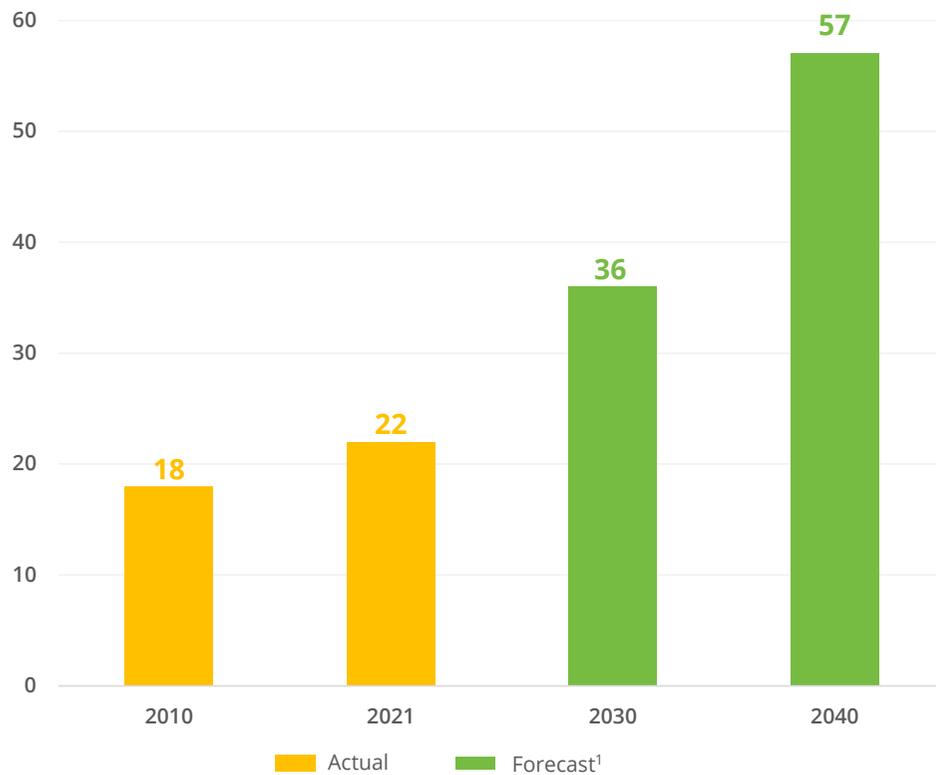
### NUCLEAR REACTORS - CHINA



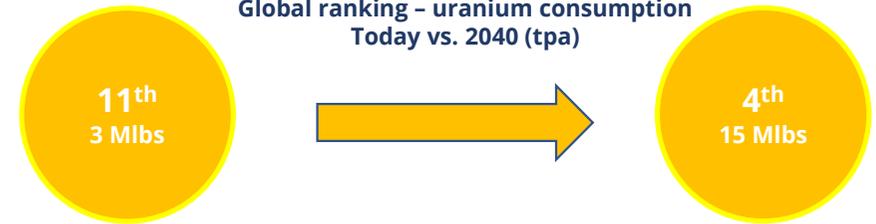
# Appendix 4 India to be 4<sup>th</sup> largest consumer of uranium by 2040



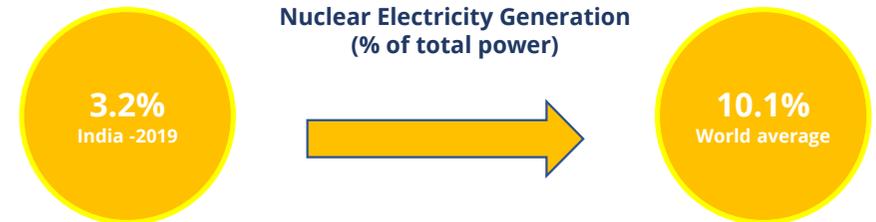
## NUCLEAR REACTORS - INDIA



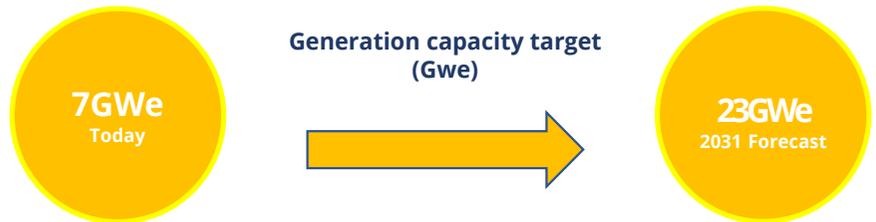
### Global ranking - uranium consumption Today vs. 2040 (tpa)



### Nuclear Electricity Generation (% of total power)



### Generation capacity target (Gwe)



# Appendix 5 – Kayelekera Mineral Resource <sup>1</sup>



Category	Mt	Grade (U <sub>3</sub> O <sub>8</sub> ppm)	U <sub>3</sub> O <sub>8</sub> (M lbs)
Measured	0.7	1,010	1.5
Measured – RoM Stockpile <sup>2</sup>	1.6	760	2.6
Indicated	18.7	660	27.1
Inferred	3.7	590	4.8
<b>Total</b>	<b>24.6</b>	<b>660</b>	<b>36.0</b>
Inferred – LG Stockpiles <sup>3</sup>	2.4	290	1.5
<b>Total All Materials</b>	<b>27.1</b>	<b>630</b>	<b>37.5</b>

1 - ASX announcement 26<sup>th</sup> March 2020.

2 - RoM stockpile has been mined and is located near the mill facility.

3 - Medium-grade stockpiles have been mined and placed on the medium-grade stockpile and are considered potentially feasible for blending or beneficiation, with studies planned to further assess this optionality.

# Appendix 6 – Experienced Board and Management Team

Production, offtake, redevelopment and financing experience in uranium industry



**Keith Bowes**  
Managing Director

Mr. Keith Bowes is a highly regarded mining executive with over 20 years of experience working on project development and operations in Africa, South America and Australia across a range of commodities and processes.

Keith project managed the Boss Resources' redevelopment program for the Honeymoon Uranium Mine including all study phases and commercial trials of the new processing technology.



**Michael Bowen**  
Non-Executive Chairman

Mr Bowen is a partner of the national law firm Thomson Geer. He practices primarily corporate, commercial and securities law with over 40 years of experience and emphasis on mergers, acquisitions, capital raisings and resources.

Mr Bowen holds a Bachelor of Laws, Jurisprudence and Commerce from the University of Western Australia.



**Grant Davey**  
Non-Executive Director

Grant is an entrepreneur with 30 years of senior management and operational experience in the development, construction and operation of precious metals, base metals, uranium and bulk commodities throughout the world.



**Mark Hanlon**  
Non-Executive Director

Mr Hanlon has over 25 years of experience in the resources and resource services sector, as well as in commercial and merchant banking.

He has a broad background of senior executive experience across a wide range of industries including mining and mining services. Mr Hanlon is currently a Non-Executive Director with ASX listed company Red River Resources Limited where he also chairs the audit and risk committee.