



12 November 2019

Companies Announcement Office
Via Electronic Lodgement

PENINSULA ENERGY LIMITED QUARTERLY RESULTS WEBCAST PRESENTATION

Peninsula Energy Limited (**Peninsula**) advises that it held an investor update webcast on 7 November 2019 including the attached presentation to cover the September 2019 quarter.

A recording of the webcast is available on the link below:

<http://www.pel.net.au> under "Announcements" subsection "Presentations".

Yours sincerely

A handwritten signature in black ink, appearing to read "J Whyte", is written over a light grey circular stamp.

Jonathan Whyte
Company Secretary

For further information, please contact our office on +61 8 9380 9920 during normal business hours.



ASX Listed - U.S. Uranium Investment Opportunity

September 2019 Quarter Webcast | 07 November, 2019



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Please note that Production Targets within this presentation are based on a proportion of inferred resources. There is a low level of geological confidence associated with inferred mineral resources and there is no certainty that further exploration work will result in the determination of indicated mineral resource or that the production target itself will be realised.

Competent Person Statement

The information in this presentation that relates to Exploration Results, Mineral Resources or Ore Reserves at the Lance Projects is based on information compiled by Mr Benjamin Schiffer. Mr Schiffer is a Registered Professional Member of the Society of Mining, Metallurgy and Exploration (Member ID #04170811). Mr Schiffer is a professional geologist employed by independent consultant WWC Engineering. Mr Schiffer has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking as a Competent Person as defined in the 2012 Edition of the ‘Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves’. Mr. Schiffer consents to the inclusion in the presentation of the matters based on his information in the form and context in which it appears.



Flagship asset: Lance Projects in-situ recovery uranium mine in Wyoming, USA

- Corporate Overview
- Debt Reduction/Debt Restructure
- Peninsula's Sales Portfolio
- Lance Project Highlights
- Lance Project Low-pH Transition Progress
- The Uranium Markets
- Investment Highlights

Use of nuclear power continues to increase in a world that is demanding more low-carbon electric power generation

Corporate Overview

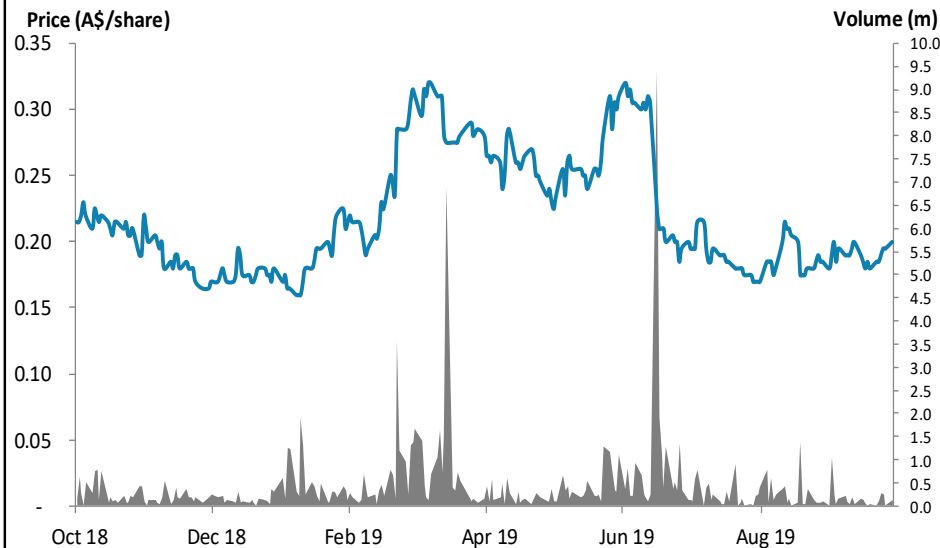


Capital Structure

Shares on issue*	250m
Share price (28-Oct-19)	A\$0.200
Market capitalisation (28-Oct-19)	A\$50m
Enterprise Value (28-Oct-19)	A\$67m
Available Cash (30-Sep-19)	US\$5.7m
Debt (30-Sep-19)	US\$17.0m

Share Price & Volume History

Ticker: ASX:PEN



Shareholding*

Holding (%)



9.6%



9.5%



2.5%



2.3%

Top 20 Shareholders

46.9%

Research Coverage

Patersons	Cam Hardie
Euroz	Michael Emery
H.C. Wainwright & Co.	Heiko Ihle
Roth Capital Partners	Joe Reagor
BMO Capital Markets	Alex Pearce

*Undiluted as at 28 October 2019

Debt Reduction Terms Agreed



Debt Reduction

- ☉ Agreement reached with Lenders¹
- ☉ Proceeds from uranium contract monetisation, when completed, of ~US\$10-11m to be applied to reduce debt

Term & Coupon

- ☉ Revised maturity date of 22 April 2021 if monetisation complete by 30 Apr 2020 (31 Oct 2020 otherwise)
- ☉ Straight term debt, bullet repayment
- ☉ Coupon reduced to 10%

Balance Sheet

- ☉ Debt balance expected to be US\$6-7m after partial contract monetisation is completed
- ☉ Non-current liability on the balance sheet

De-risked balance sheet provides greater financing flexibility when funding for low pH transition & ramp-up occurs

1) Refer to ASX announcement dated 05-NOV-2019

Sales Contract Portfolio (Pre-monetization)



☉ Five sales agreements with major utilities

- Weighted sales price between US\$51-53/lb U_3O_8
- Contract portfolio carries through year 2030

☉ Up to 6.2 million pounds U_3O_8 remaining under contract

- 4.2 million lbs U_3O_8 committed deliveries
- Up to 1.9 million lbs U_3O_8 optional at customer election between 2021 & 2026

☉ Material origin clauses allow purchased U_3O_8 for deliveries in CY2020

- Already contracted to purchase 100,000 lbs U_3O_8 for delivery in March 2020 at fixed purchase price of US\$25/lb U_3O_8

☉ Sales portfolio represents ~20% of projected Lance FS LOM production

Lance ISR Project | Wyoming, USA

A Premier US Uranium Project





Exceptional Asset

- ☞ Lance holds the largest defined uranium resource of any recently producing project in the United States
- ☞ 53.6M lbs U3O8 JORC (2012) compliant resource base²

Scalable Production

- ☞ Lance is licensed to produce up to 3M lbs U3O8 per annum
 - Would be the #1 ISR producer in the US & Top 10 globally
- ☞ Current (Stage-1) plant capacity of 1.15M lbs U3O8 per annum

Restart Ready

- ☞ Two fully developed Mine Units on standby and are available for further recovery operations
- ☞ Recovery operations idled in 2019 due to low level of near term production requirements

² – See Appendix 2



🌀 Regulatory Benchmarks

- Completed major amendments for low pH ISR
- Steady Progression of Implementation Plan

🌀 Low pH Technical De-risking & Optimisation

- Conduct low pH resin optimisation test work and studies
- Evaluate design improvements for fines removal methods
- Revise the design of acid storage and distribution system

🌀 Operational Readiness at Lance

- Project ready now for implementation funding and operational green light

Low pH Implementation Plan



Phase 1

- ✓ Field Demonstrations of Mining and Initial Restoration
- ✓ **Complete**

Phase 2

- ✓ Commercial use of low pH in MU's 1 & 2
- ✓ **Authorised**

Phase 3

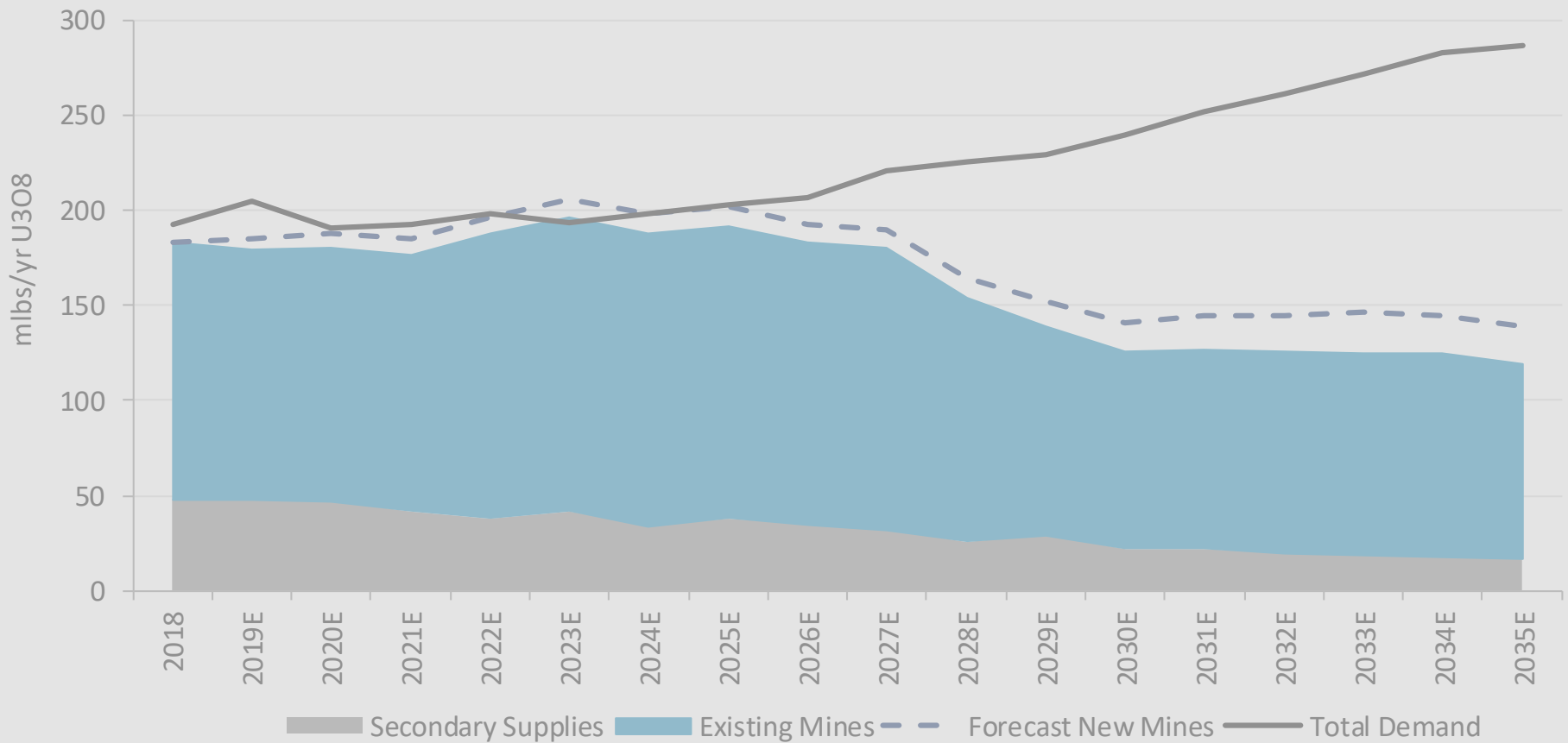
- ✓ Field groundwater restoration demonstration
- ✓ Interim Restoration Report (**IRR**) for WDEQ approval
- ✓ **Ongoing Activity**

Phase 4

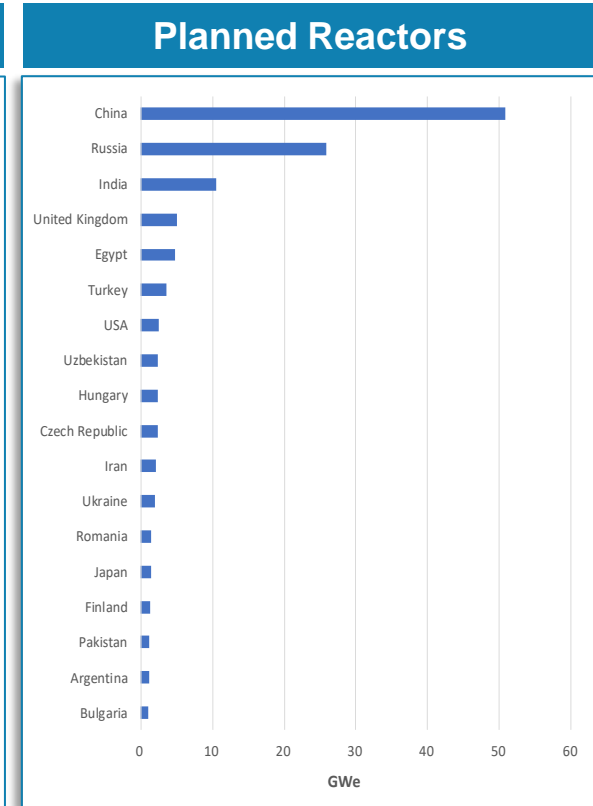
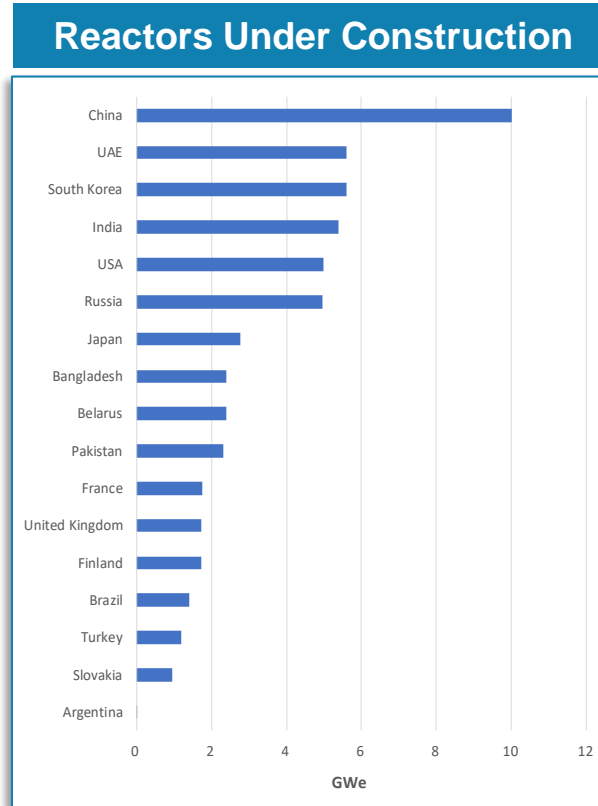
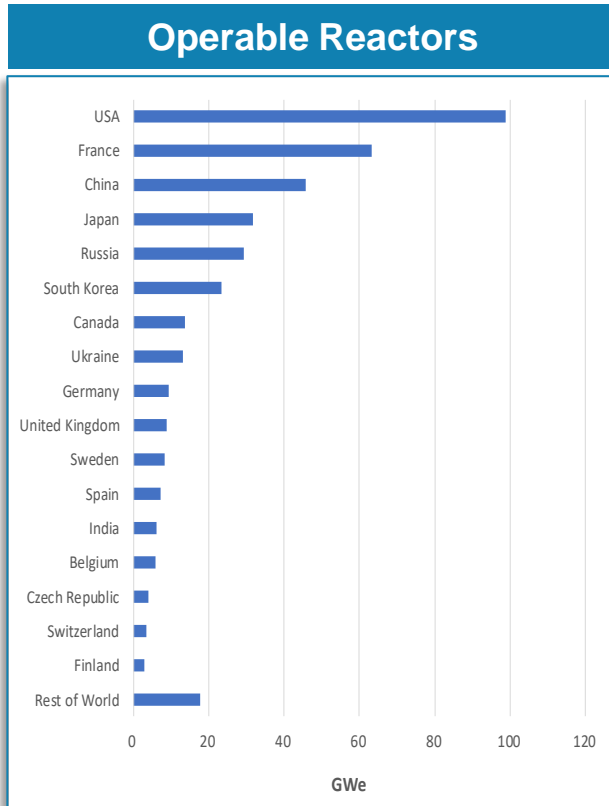
- ✓ Upon approval of IRR, commercial use of low pH authorised in all future new mine units



The Uranium Market



Solid Growth in Uranium Demand



444 operable reactors

- 🌀 396 GWe capacity
- 🌀 Requires 176m lbs U3O8 per annum

54 reactors under construction

- 🌀 58 GWe capacity
- 🌀 Requires ~32m lbs U3O8 per annum*
- 🌀 per GWe; initial core based on 2.0m lbs

111 reactors firmly planned

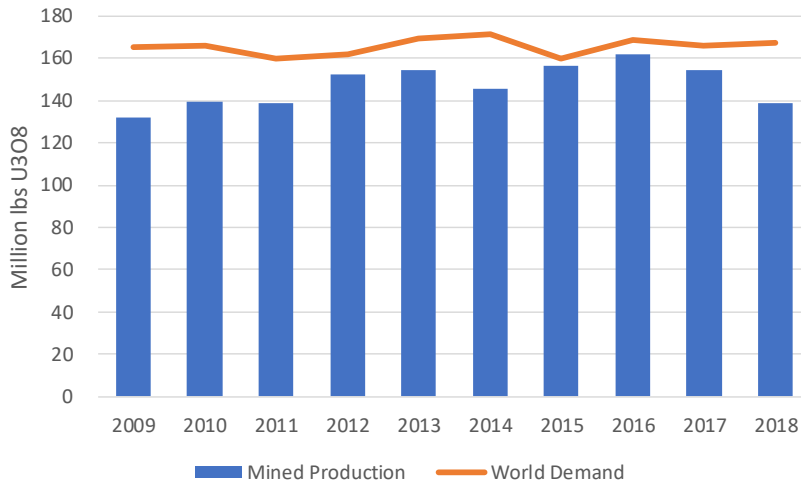
- 🌀 122 GWe capacity
- 🌀 Requires ~61m lbs U3O8 per annum*
- 🌀 >200m lbs U3O8 for initial cores*

Source: World Nuclear Association, as at August 2019

* Annual U3O8 consumption based on 550,000 lbs per GWe; initial core based on 2.0m lbs per GWe



Significant supply reductions¹



Substantial CAPEX to re-start idled mine capacity²

McArthur River	US\$70m (2 yrs.)
Langer Heinrich	US\$80m
Honeymoon	US\$68m

CAPEX to develop new projects is not currently available or warranted

Greenfield projects US\$100's of million

Secondary supplies gradually reducing

Price for uranium conversion services increasing

Demand and price for enrichment SWU will increase as roll-out of new reactors continues



Combination of these factors means that enricher underfeeding becomes less attractive

Government policy and action

US Nuclear Fuel Working Group – recommendations now expected in mid November 2019

Russian Suspension Agreement – up for renewal in CY2020

Possible sanctions on global companies supplying goods or services to the Iranian nuclear program could disrupt the western fuel supply chain

Source: 1) World Nuclear Association; 2) respective company stock exchange filings

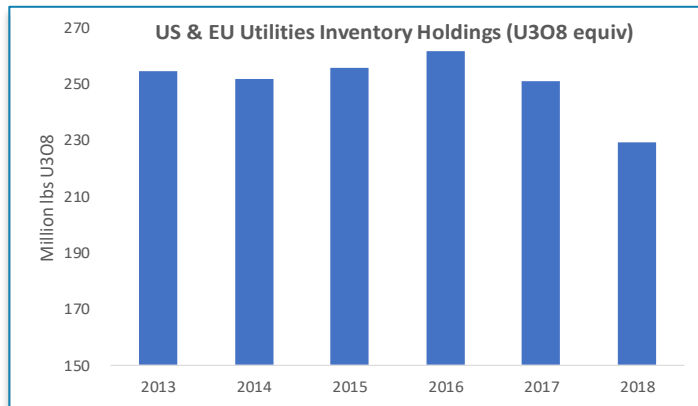
When will the Uranium Price Improve?



No one knows for sure, but watch for these signals:



- When regulatory certainty returns to the US
- Utilities can go to the market with confidence



- As utility inventories reach minimum levels
- Balances down 13% over past 2 years



- When mining companies purchase rather than produce, reducing the amount of physical uranium available for utility needs



- When utilities do not get material offered to them in the quantities they request

The foundation for all of these indicators is being laid right now!

Conclusion



Take-Away Points



U.S. Domestic Producer

- ☉ Peninsula is positioned to benefit from U.S. Government initiatives and ongoing corporate activities
- ☉ The only low pH uranium ISR project in the U.S.

Long Life Project

- ☉ Lance has the largest defined ISR uranium resource in the US with clear visibility and short timeline to re-start production

Valuable Contract Book

- ☉ The only U.S. based uranium project with long- term sales contracts extending to 2030

Attractive Valuation

- ☉ Low EV/lb resource compared to peer group with substantial share price re-rating events over next 12 months
- ☉ Uranium markets are poised for a strong upward move

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FURTHER INFORMATION

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