

20 April 2022

Companies Announcement Office Via Electronic Lodgement

#### PRESENTATION AT NOBLECON18

Peninsula Energy Limited ("Peninsula" or the "Company") (ASX: PEN, OTCQB: PENMF) is pleased to announce that Managing Director/CEO Mr Wayne Heili, will present at the NobleCon18 - Noble Capital Markets' Eighteenth Annual Investor Conference at the Hard Rock Hotel & Casino, Hollywood, Florida on Wednesday 20 April 2022 at 4:00pm Eastern US Standard Time.

There will be an opportunity to meet with Wayne at the breakout sessions scheduled for 20 April 2022 at 1:00pm - Table 8 and 21 April 2022 at 12:15pm - Table 5 Eastern US Standard Time. A high-definition video webcast of the presentation will be available the following day on the Company's website <a href="https://www.pel.net,au">www.pel.net,au</a>, also as part of a complete catalog of presentations available at Noble Capital Markets' Conference website: <a href="https://www.nobleconference.com">www.nobleconference.com</a> and on Channelchek <a href="https://www.channelchek.com">www.channelchek.com</a> the investor portal created by Noble.

Wayne will be providing an update on Peninsula's flagship Lance Projects located in Wyoming, USA, the growing importance of uranium to both the United States and as part of the green energy mix and key workstreams for the year ahead, as the Company works towards making a Final Investment Decision on restarting operations at Lance.

On 28 March 2022, Peninsula announced commencement of an update to its 2018 Low-pH ISR Feasibility Study, incorporating the results and conclusions from completed technical de-risking activities, including the critical MU1A Field Demonstration. The Company anticipates completing the Updated Feasibility Study in 3Q 2022.

#### **About Noble Capital Markets, Inc.**

Noble Capital Markets ("Noble") is a research driven investment bank that has supported small and microcap companies since 1984. As a FINRA and SEC licensed broker dealer Noble provides institutional-quality equity research, merchant and investment banking and order execution services. In 2005, Noble established NobleCon, an investor conference that has grown substantially over the last decade. Noble launched www.channelchek.com in 2018 - an investor community dedicated exclusively to public small and micro-cap companies and their industries. Channelchek is the first service to offer institutional-quality research to the public, for FREE at every level without a subscription. More than 6,000 public emerging growth companies are listed on the site, with growing content including research, webcasts, podcasts, and balanced news.

This announcement was approved and authorised by the Managing Director/CEO.

or

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#### **ABOUT PENINSULA ENERGY LIMITED**

Peninsula Energy Limited (**PEN**) is an ASX listed uranium mining company which commenced in-situ recovery operations in 2015 at its 100% owned Lance Projects in Wyoming, USA operated by Strata Energy Inc, a wholly owned subsidiary of Peninsula. Peninsula is embarking on a project transformation initiative at the Lance Projects to change from an alkaline ISR operation to a low-pH ISR operation with the aim of aligning the operating performance and cost profile of the project with industry leading global uranium production projects.

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# PENINSULA ENERGY AN ADVANCED STAGE URANIUM DEVELOPER NOBLECON18

20 April 2022

#### Disclaimer & Competent Person



This Presentation contains summary information about the current activities of the Company as at the date of this Presentation. The information in this Presentation is of a general nature and does not purport to be complete. This Presentation does not purport to contain all the information that an investor should consider when making an investment decision nor does it contain all the information which would be required in a disclosure document or prospectus prepared in accordance with the requirements of the Corporations Act 2001 (Cth). It should be read in conjunction with the Company's other periodic and continuous disclosure announcements lodged with the Australian Securities Exchange, which are available at www.pel.net.au. To the extent permitted by law, the Company, its representatives, affiliates, related bodies corporate, officers, employees, agents and advisers make no representation or warranty (express or implied) as to the currency, accuracy, reliability, relevance or completeness of the material contained in the Presentation and disclaim all responsibility and liability for the information (including, without limitation, liability for negligence).

Past performance information given in this Presentation is given for illustrative purposes only and should not be relied upon as (and is not) an indication of future performance.

The Presentation contains "forward-looking statements". All statements other than those of historical facts included in the Presentation are forward-looking statements including estimates of resources, timing of permit and license amendments, and rates of uranium extraction and recovery. However, forward-looking statements are subject to risks, uncertainties and other factors, which could cause actual results to differ materially from future results expressed, projected or implied by such forward-looking statements. Such risks include, but are not limited to, uranium price volatility, currency fluctuations, increased production costs and variances in ore grade or recovery rates from those assumed in mining plans, as well as political and operational risks and governmental regulation and judicial outcomes. The Company does not undertake any obligation to release publicly any revisions to any "forward-looking statement" to reflect events or circumstances after the date of the Presentation, or to reflect the occurrence of unanticipated events, except as may be required under applicable laws or regulations (including the ASX Listing Rules).

This Presentation is for information purposes only and is not a prospectus, disclosure document, product disclosure document, product disclosure statement or other offering document under Australian law or any law (and will not be lodged with the Australian Securities and Investments Commission). This Presentation is not and should be considered an offer to sell or solicitation of an offer to buy securities of the Company.

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.

This presentation was approved by the Managing Director/CEO

# Cautionary & Inferred Resources Notice



The Feasibility Study completed for the Lance Projects includes measured and indicated resources and an assumed resource conversion of 60% (inferred to indicated or greater). The purpose of the Feasibility Study is to demonstrate the Lance Projects economic viability and the robustness of the planned low pH operations over an extended mine life beyond the existing Ross production area.

The Feasibility Study itself is based on various assumptions, including homogeneity of the delineated ore body contained within the Lance Projects. This is considered reasonable by the Company's technical consultants, competent persons and independent external consultants. The Company believes that it has a reasonable basis upon which to prepare and release these Feasibility Study results, particularly given that the Lance Projects have been in operation since December 2015. Whilst the Company considers that all the material assumptions underpinning the Feasibility Study are based on reasonable grounds, there is no certainty that they will prove to be correct or that the outcomes indicated by the Feasibility Study will be achieved.

The Company believes it has a reasonable basis for providing the forward-looking statements and production targets included in this announcement. The material assumptions are included in Appendix 1 of this announcement and in the JORC table disclosures appended. The detailed assumptions regarding the resources are outlined in the ASX announcement released on 14 November 2018.

Investors should also note that there is no certainty that the Company will be able to raise the amount of funding for the Lance Projects when it is required or on terms that are not overly dilutive or that are favourable to the value of the Company's existing shares.

This presentation has been prepared in accordance with the JORC Code (2012) and the ASX Listing Rules. There is a low level of geological confidence associated with inferred mineral resources and there is no certainty that further exploration and delineation work will result in the determination of indicated mineral resources or that the production target itself will be realised. Financial information contained in this announcement is preliminary in nature and is in-part based on low-level technical and economic assessments and is insufficient to support the estimation of reserves or to provide assurance of economic development.

Under the Feasibility Study mine plan, the first 5 years production can be sourced almost entirely from Measured and Indicated Resources. If the Inferred Resources are excluded from the Feasibility Study, the economic analysis still forecasts a positive financial performance. Therefore, the Company is satisfied that the use of Inferred Resources is not a determining factor in overall Project viability and that it is reasonable to include Inferred Resources in the Feasibility Study, particularly given that the Lance Projects were recently operating and produced uranium for over three years.

In accordance with the relevant regulations governing the disclosure of mineral projects, readers are cautioned that mineable resources based on inferred resource material are considered too speculative geologically to enable them to be classified as reserves.



- Led by a well-credentialled team, Peninsula is aggressively advancing its long-life Lance Uranium ISR Project towards a production restart decision
- Efficiently and successfully de-risked Lance with eye to Final Investment Decision (FID) in CY2022
- Lance is perfectly positioned to play a role in supplying fuel to nuclear plants as a part of the green energy mix
- US producer-specific opportunities through project location in Wyoming, USA
- Strong balance sheet and significant cashflow from long-term uranium sales contracts

#### Corporate Overview



997m

Shares on issue

Price (A\$/share)

0.36 0.32

0.28 0.24

0.20

0.16

0.12

0.08

0.04

Apr 21

Jun 21

A\$0.28

Share Price (14 April 2022)

US\$0.196/sh

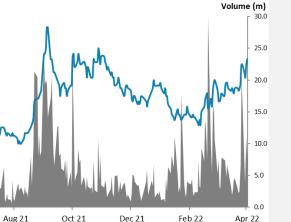
OTCQB:PENMF

A\$279m

Market Capitalisation

US\$196m

OTCQB:PENMF



#### **Board of Directors**

Ms Rachel Rees

Mr John Harrison Non-Executive Chairman Managing Director Mr Wayne Heili Chief Executive Officer Mr Harrison Barker Non-Executive Director Mr Mark Wheatley Non-Executive Director

Nil

Term Debt

Non-Executive Director

# US\$9.3m

Cash (as of 31 Dec 21)

#### US\$19.8m

U308 Inventory (as of 31 Dec 21) (@ US\$63.75/lb)

#### Management Team

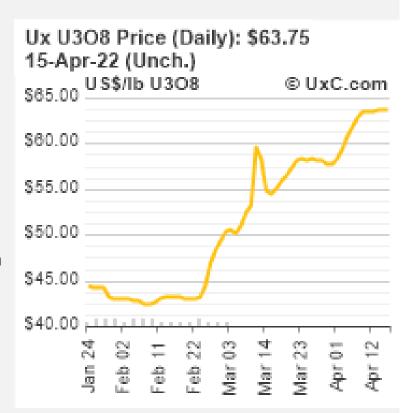
- Wayne Heili
- Ron Chamberlain
- Jay Douthit
- Mike Griffin

- Ralph Knode
- Brian Pile
- David Hofeling
- Mike Brost

# Dynamic & Evolving Uranium Market



- Spot uranium price reset. Currently US\$63.75/pound
- > Key developments include
  - Russia/Ukraine war driving a shift toward an independent Western Fuel Cycle
    - By law or by choice, Western entities are distancing from Russian exports
    - Both supply and demand sides may develop into markets defined by national interests
  - EU draft taxonomy legislation defining nuclear infrastructure as a 'green' investment
  - More activity in term markets in 1Q22 (CAMECO reported contracting 40Mlbs in 1Q22 vs. 30Mlbs for the whole of 2021)
- > Growing role of financial players such as Sprott Physical Uranium Trust (SPUT) and Yellow Cake as active purchasers in the spot market
  - SPUT has purchased over 32 million pounds since Sept-2021



#### URANIUM & NUCLEAR IN THE UNITED STATES



"Nuclear power provides 52% of America's clean energy.
Because nuclear power plants operate at full capacity more than 92% of the time, it has become our country's most reliable energy source. This National Clean Energy Week, we are proud to support the advancement of nuclear energy"



US Government is increasing funding to support advanced nuclear power projects and the nuclear fuel industry



There are multiple bills in front of Congress that support the expansion of the domestic nuclear industry capacity from mining to power plants



US\$75 million Strategic Uranium Reserve to be supplied by domestic mines is advancing in 2022



Jennifer Granholm Secretary U.S. Dept. of Energy November 4, 2021



US Government commitment to support nuclear power plant life extensions (Infrastructure Bill)



# LANCE URANIUM IN-SITU RECOVERY (ISR) PROJECT WYOMING, USA

# A Modern, Large Scale and Long-Life Asset



- Lance is one of the largest US uranium projects in size and scale
  - 53.6M lbs U<sub>3</sub>O<sub>8</sub> JORC (2012) compliant resource base<sup>1</sup>
- Licensed to produce up to 3M lbs U<sub>3</sub>O<sub>8</sub> per annum
  - Current (Stage-1) plant capacity of 1.15M lbs U<sub>3</sub>O<sub>8</sub> per annum
- Modern processing and wellfield production facilities constructed in 2015 or later
  - Production is currently paused awaiting Project transition to low pH ISR
- Technically de-risked transition via successful completion of MU1A Field Demonstration
  - Actively updating project economics based on outcomes to complete FID in 2HCY2022
- Estimated 6-month lead time to return to production (post FID)
  - Re-start decision depends on continuation of satisfactory market conditions and a satisfactory outcome from updated economic evaluation

# Applying Industry-Leading Low pH ISR Process



# Low pH ISR is the leading method of uranium production globally

#### The 2018 Lance Low pH ISR Feasibility Study<sup>1</sup>

 Updated economic evaluations underway, informed by the Low pH Field Demonstration and current external cost influences

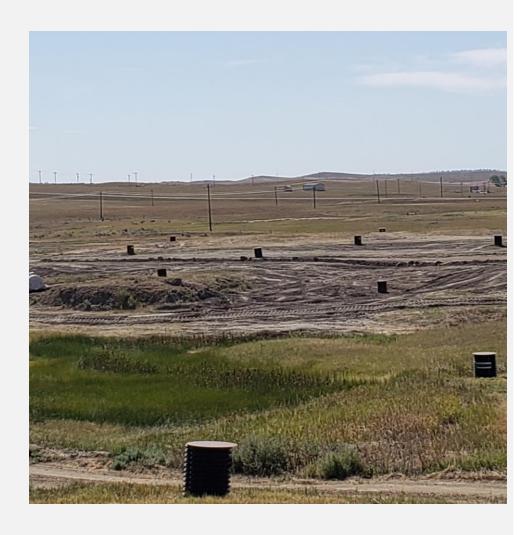
- Over 50% of global uranium produced in 2020 was via low pH ISR
  - All of the lowest quartile cash cost uranium mines
- Lance is the only US-based uranium project authorised to use the industry leading low pH ISR method
- Low pH ISR transition and re-start
  - Low CAPEX requirement of US\$6 million
- Stage 1 ramp up to capacity of 1.15 million lbs p.a.
  - AISC of US\$41/lb
  - Working capital ~US\$15 million (includes mine unit 3)
- Stage 2 expansion to capacity of 2.3 million lbs p.a.
  - AISC of US\$31/lb
  - CAPEX US\$43 million

<sup>1)</sup> There is a low level of geological confidence associated with inferred mineral resources and there is no certainty that further exploration and delineation work will result in the determination of indicated mineral resources or that the production target itself will be realised.

# Completion of MU1A Field Demonstration



- MU1A Field Demonstration was a thorough study to ensure transition to low-pH is successful
- All key objectives of demonstration were achieved
  - Demonstrated effectiveness of low-pH chemistry and targeted field patterns for dissolving and recovering uranium
  - Provided reagent consumption data required for updated project economic studies
  - Peak recovery grade of 150 ppm U3O8 achieved from processing twenty-five pore volumes in a close-spaced pattern
  - Pilot Scale plant recovery systems yielded produced uranium
- Field Demonstration area to be preserved for future pilot testing of advanced recovery plant optimisation concepts



# Aggressively Advancing LANCE Ahead of FID

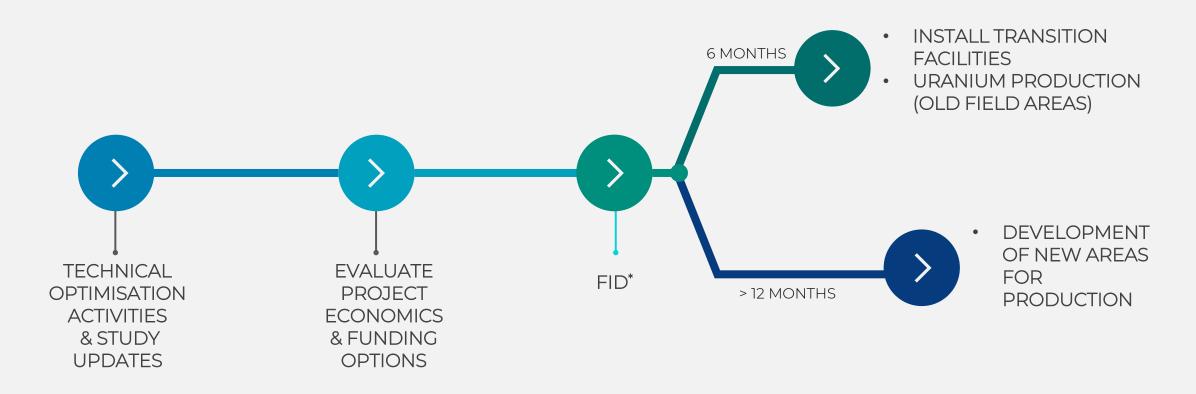


#### 2022 is shaping to be a pivotal year for the Company, with key activities being advanced ahead of FID

- Updated Lance Projects Feasibility Study is progressing for 3Q2022 release
  - Study will build on the 2018 Lance Low-pH ISR Feasibility Study
  - Incorporate results and conclusions from the Company's technical de-risking activities, including the recently completed MU1A Field Demonstration
  - Inflationary pressures corresponding to current supply chain issues have been noted and PEN is assessing the likely longerterm impact
- US\$3.4 million preparatory work program underway to facilitate an accelerated production ramp-up at Lance, once FID is made. Key workstreams include:
  - Preparation and operational readiness activities in Mine Units 1 and 2
  - Commencement of Mine Unit 3 drilling activities
  - Front-end engineering and design for low pH ISR process modifications
- Project level staffing is being increased to 37 employees

# A Well-Defined Pathway to Production





- \* Final Investment Decision (FID) for Low pH implementation and production restart
  - FID based on current uranium market conditions
  - FID also based on Updated Feasibility Study outcomes

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# SALES, MARKETING AND INVENTORY

#### Uranium Sales Contract Book



#### "A Key Differentiator"



A Junior Uranium Company with long-term sales contracts extending to 2030



Current contracts in place for up to 5.0M lbs at US\$53-\$55/lb U<sub>3</sub>O<sub>8</sub>, with major utilities in both the United States and Europe

- 3.65Mlbs firmly committed sales (400-450klbs/yr)
- 1.35Mlbs optional at the customers election



CY2022 sales to generate *Net Cash Margins* between USD 8.0 to 9.0 million

- Binding contractual sales matched with binding fixed price purchase agreements
- Committed matching transactions of 450,000lbs in 2022

# Strategic Physical Uranium Inventory



- Uncommitted physical inventory of 310,000 pounds of uranium concentrate as at 31-Dec-2021
  - Now valued at US\$19.8 million (US\$63.75 per pound)
- 300,000 pounds of uranium concentrate acquired for US\$31.35 per pound in mid-2021
  - Delivering considerable appreciation in value for shareholders
  - Doubling of value since time of purchase
- Holding physical uranium is a low-risk strategy that provides key benefits
  - Strategically aligned with funding requirements to transition Lance to a low pH ISR operation and resume production
  - Strengthens working capital and enhances flexibility in marketing product



#### A COMPELLING URANIUM PROPOSITION

# Upcoming Workstreams and Catalysts



- Updated economic evaluations for Lance
- Deliverables from US\$3.4M early preparatory works program
- Preparations and FID for restart of Lance Project
- Amendments to existing permits and licenses
  - Financing and sales contracting activities



# A Transformative 12 Months Ahead



Low capex requirement and short timeframe for production re-start at Lance Project Lance is the only USbased uranium project authorised to use industry leading low pH ISR method Led by a well credentialled technical and commercial team

Ongoing cashflow underpinned by current uranium sales with upside exposure through 310,000 pounds of physical uranium

Importance of uranium as a clean energy source growing rapidly across the globe

Increasing number of positive catalysts in the US domestic uranium sector

Systematically advancing towards a FID in CY2022 to restart operations at Lance

#### The Peninsula Advantage





Idled US uranium producers and developers with sufficiently de-risked assets may have a unique opportunity to capture emerging US demand in a Western-focused nuclear fuel market



Most uranium developers remain years away from achieving actual production-readiness with significant staffing, technical, regulatory, operational and market-related obstacles in the way



Peninsula has completed staffing, technical, regulatory and operational de-risking activities to allow a rapid speed-to-market pathway and to leverage current uranium market opportunities

#### Contact Details

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#### **FURTHER INFORMATION**

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#### Appendix 1 - Resources



#### Lance Projects Resource Estimate as at 31 December 2020<sup>1</sup>

Classification	Tonnes (million)	U3O8 (kg)	Grade (ppm U3O8)	U3O8 (lbs)
Measured	3.4	1.7	489	3.7
Indicated	11.1	5.5	496	12.1
Inferred	36.2	17.2	474	37.8
Total	50.7	24.4	480	53.6

<sup>1)</sup> JORC Table 1 included in an announcement to the ASX released on 14 November 2018: "Revised Lance Projects Resource Tables". Peninsula confirms that it is not aware of any new information or data that materially affects the information included in this announcement and that all material assumptions and technical parameters underpinning the estimates 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 announcement.