



2 August 2023

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# Lo Herma Maiden U<sub>3</sub>O<sub>8</sub> Resource & Upsized Exploration Target

Investor Presentation

**ASXGTR**

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# ASXGTR

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## **COMPETENT PERSONS STATEMENT**

The information in this announcement that relates to the Mineral Resource Estimates, Exploration Targets and Exploration Results on the Henry Mountains project is based on information compiled and fairly represents the exploration status of the project. Doug Beahm has reviewed the information and has approved the scientific and technical matters of this disclosure. Mr. Beahm is a Principal Engineer with BRS Engineering Inc. with over 45 years of experience in mineral exploration and project evaluation. Mr. Beahm is a Registered Member of the Society of Mining, Metallurgy and Exploration, and is a Professional Engineer (Wyoming, Utah, and Oregon) and a Professional Geologist (Wyoming). Mr. Beahm has worked in uranium exploration, mining, and mine land reclamation in the Western US since 1975 and has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and has reviewed the activity which has been undertaken in 2019 and 2020, to qualify as a Competent Person as defined in the 2012 Edition of the Joint Ore Reserves Committee (JORC) Australasian Code for Reporting of exploration results, Mineral Resources & Ore Reserves. Mr. Beahm provides his consent to the information provided relative to the planned Section 36 exploration programme herein.

## **CAUTION REGARDING FORWARD LOOKING STATEMENTS**

This announcement may contain forward looking statements which involve a number of risks and uncertainties. Forward-looking statements are expressed in good faith and are believed to have a reasonable basis. These statements reflect current expectations, intentions or strategies regarding the future and assumptions based on currently available information. Should one or more risks or uncertainties materialise, or should underlying assumptions prove incorrect, actual results may vary from the expectations, intentions and strategies described in this announcement. The forward- looking statements are made as at the date of this announcement and the Company disclaims any intent or obligation to update publicly such forward looking statements, whether as the result of new information, future events or results or otherwise.



**USA Uranium  
Market  
Opportunity**



**Wyoming Is The  
Leading US  
Uranium State**



**GTI Has  
Discovered ISR  
Amendable  
Uranium**

# US Nuclear Power

GTenergy.



Nuclear power is **very important** to the US.

**World's Largest Reactor Fleet**

95 Gigawatts = 20% of US baseload & 50% of green energy

DOE "Lift Off Report" now advocating for **300 Gigawatts by 2050**

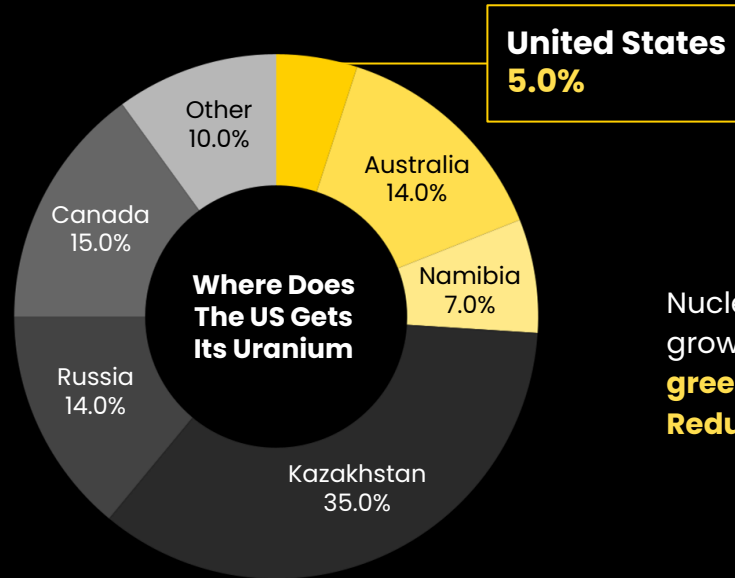
# US Emissions & Energy Security



World's largest reactor fleet producing ~95GW from 92 reactors but imports 95% of ~47Mlbs p.a.  $U_3O_8$

**US Nuclear delivers 50%** of clean energy + **20%** of baseload to underpin US NetZero emissions targets

**Strategic Uranium Reserve – US\$1.5bn** US  $U_3O_8$  over 10 yrs



Nuclear fleet now supported to grow with **\$6Bn in grants plus green tax credits – Inflation Reduction Act (IRA)**

Source: Where our uranium comes from – U.S. Energy Information Administration (EIA)

# Uranium Demand

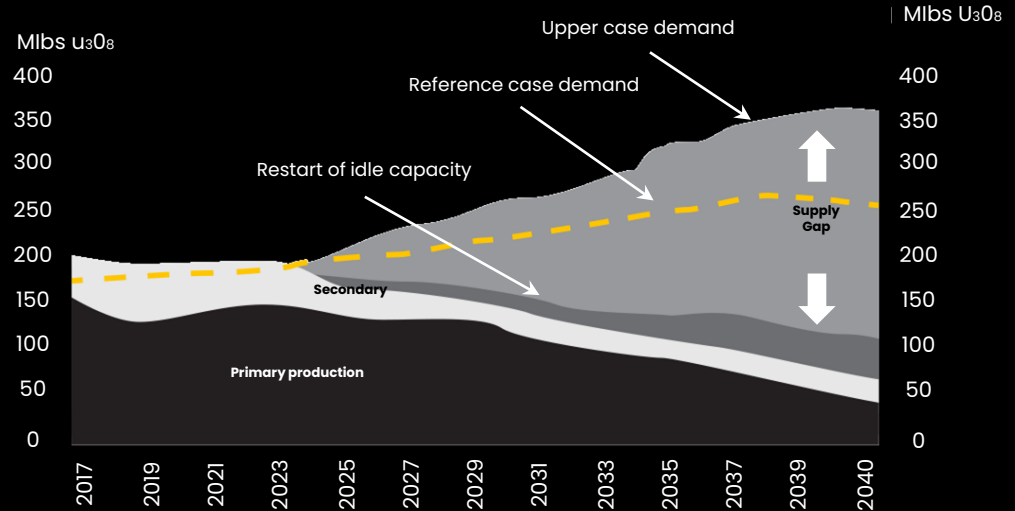


## Demand Growth

- Climate response drives rapid global nuclear power growth
- Reversal of reactor shut downs – Japan, France, US, Sth Korea
- Reactor builds incl SMR's – China, India, Russia, UAE, US
- Sprott & miners/developers aggressively buying U<sub>3</sub>O<sub>8</sub>

## Supply Contraction

- Sub-economic pricing, driven by secondary supply glut (Megatonnes to Megawatts) plus cheap Kazak ISR, lead to global under-investment in supply
- Geopolitical instability (Russia/Ukraine) manifests in a return to the east/west bifurcated uranium market
- Western conversion & enrichment needs massive investment to avoid **“overfeeding”**

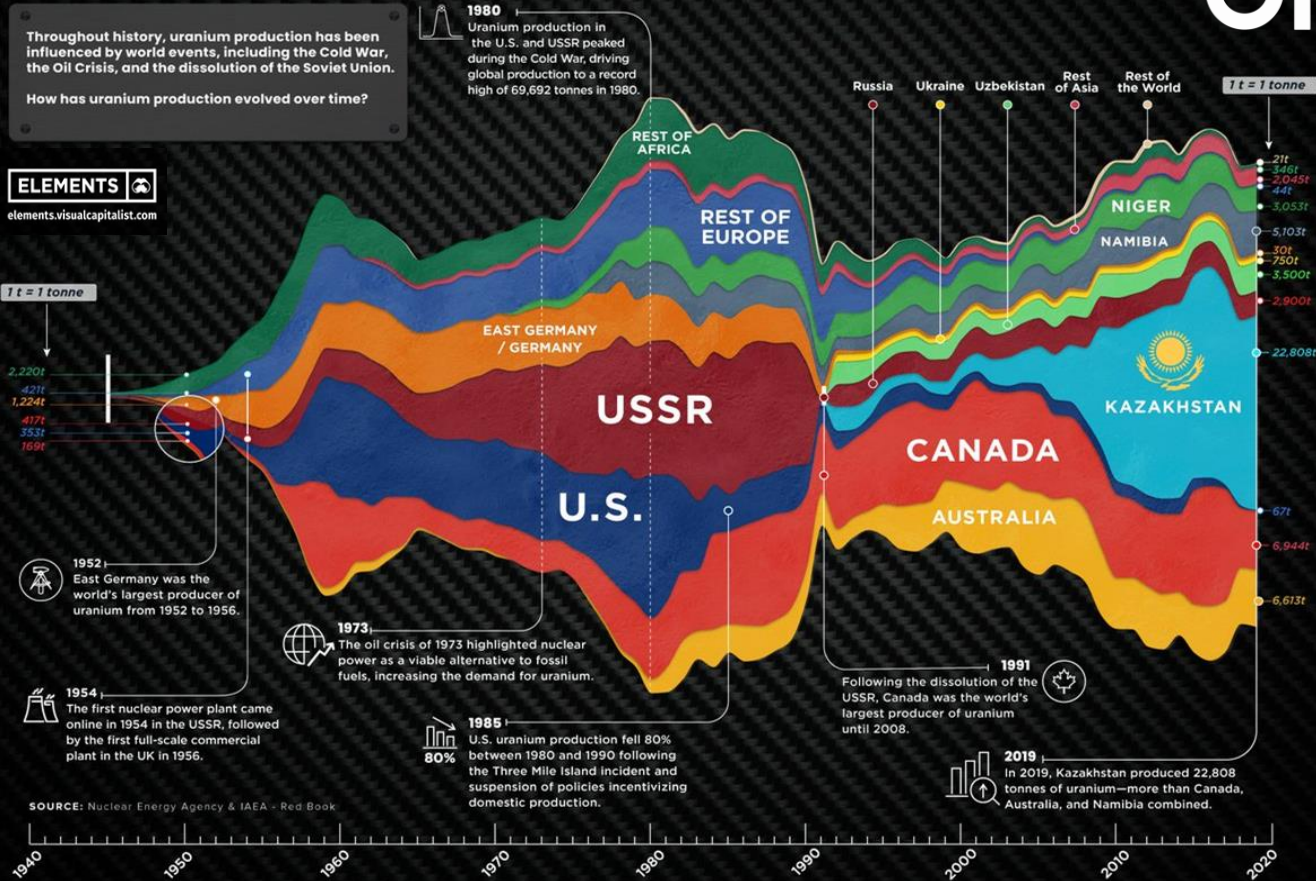


- 436 nuclear power reactors operating in 32 countries
- 59 reactors currently being constructed in 18 countries
- 100 reactors on order/planned & 323 more proposed

Source: Plans for New Nuclear Reactors Worldwide – World Nuclear Association (world-nuclear.org May 2023)

# 80 Years of Uranium Production

GTenergy.



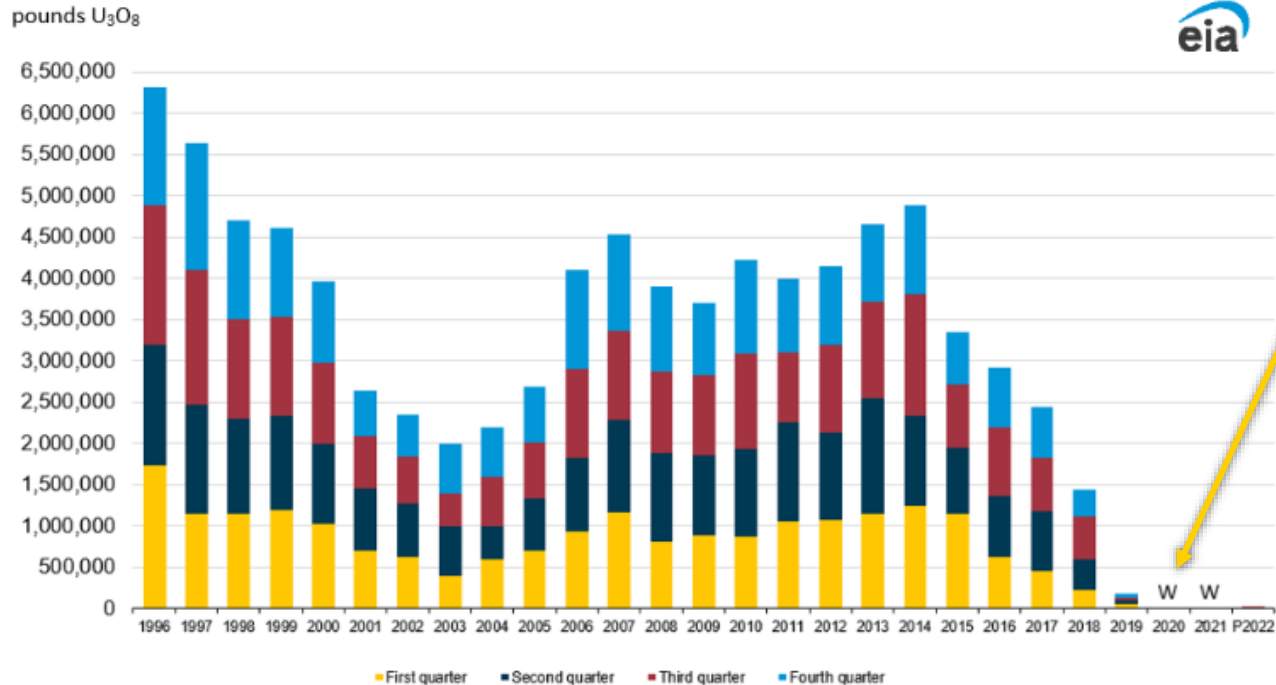
**US producers crushed by removal of incentives plus 20 yrs of "Megatons to Megawatts" (1993-2013) followed by cheap Kazak ISR**

The Bush Snr/Clinton era Megatons to Megawatts Program, also called the "United States-Russia Highly Enriched Uranium Purchase Agreement" whereby Russia converted 500 metric tons of "excess" weapons-grade uranium (enough for 20,000 warheads) into 15,000 metric tons of low enriched uranium, to be sold to US utilities for commercial nuclear power use.

Source: [https://en.wikipedia.org/wiki/Megatons\\_to\\_Megawatts\\_Program](https://en.wikipedia.org/wiki/Megatons_to_Megawatts_Program)

# US Uranium Mining Collapse

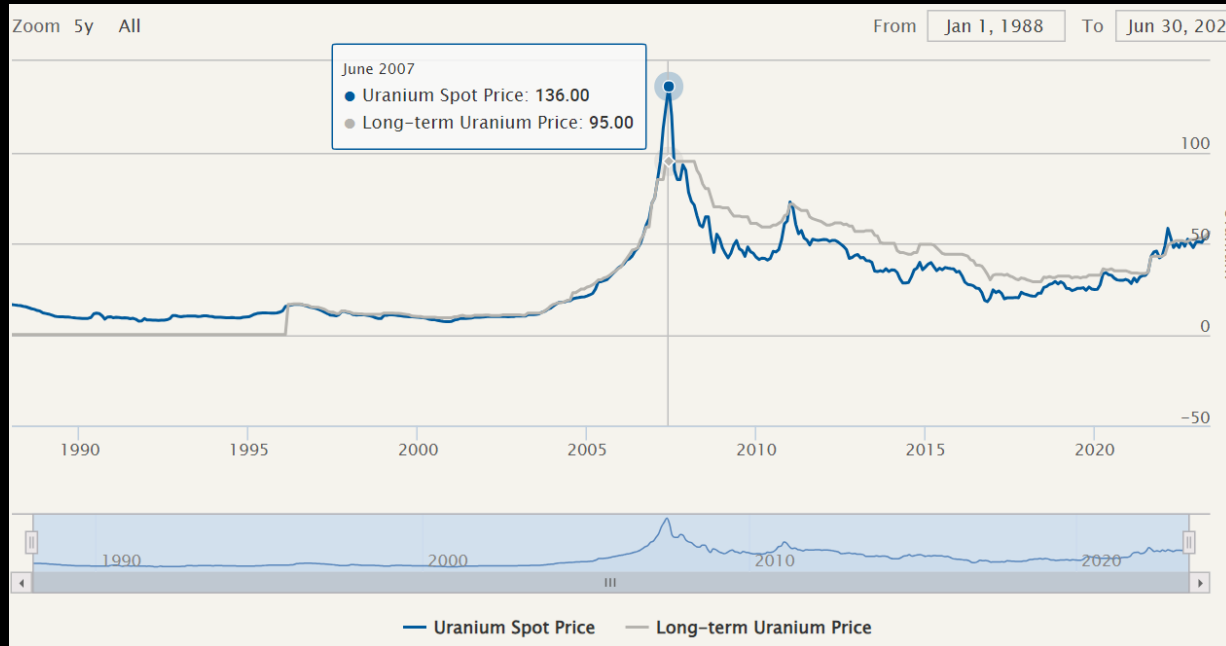
Figure 1. Uranium concentrate production in the United States, 1996 to third-quarter 2022



US uranium mining collapse driven by entrenched sub-economic pricing



# Uranium Price Improvement



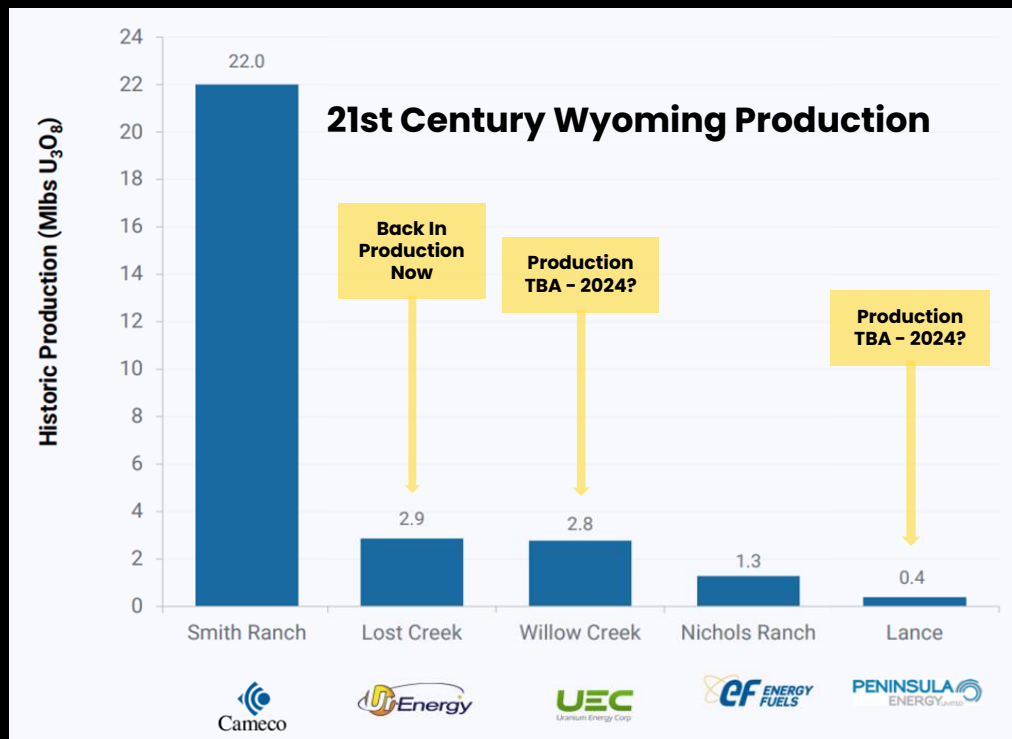
actual long term contract price for new production anticipated to be higher than US\$56.00

Source: <https://www.cameco.com/invest/markets/uranium-price>

# Wyoming Producer Restarts



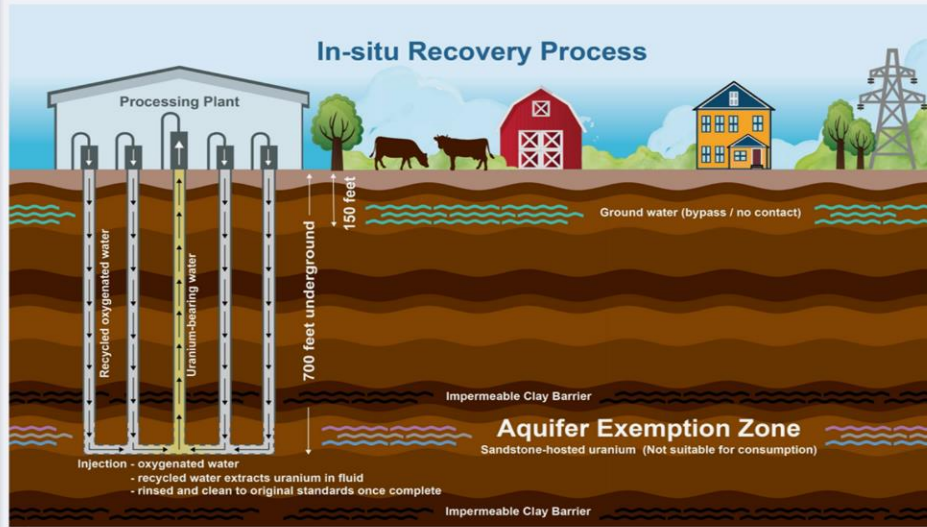
Low cost Wyoming ISR producers are the first in the US to respond to tightening supply & higher prices



# Insitu Recovery (ISR) Mining



environmentally superior & economically competitive



ISR uses injection wells which add oxygen and carbon dioxide creating a lixiviant solution; uranium dissolves into the solution

Recovery wells pump the solution back to the surface to a processing facility

Monitoring wells surround the wells

60% of global uranium is produced through ISR

Environmental impact manageable - no tailings, minimal dust and less water consumption than conventional mining

Economic advantage - operate at ~ 2/3 the cost of conventional mining

Average CAPEX of ISR operations less than 15% of conventional mines

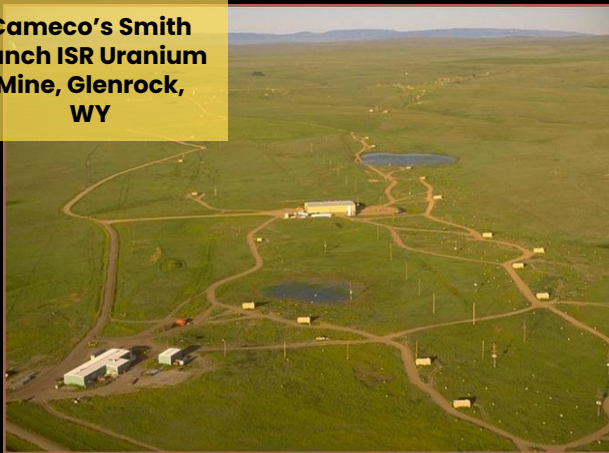
Source: United States Nuclear Regulatory Commissions ([www.nrc.gov](http://www.nrc.gov)) (1) World Nuclear Association - World Mining Uranium Production (December 2020) (2) TradeTech - The Nuclear Review (October 2016)

# Insitu Recovery (ISR) Mining



ISR mining (also called insitu leach or solution mining) is used extensively in Kazakhstan, Uzbekistan & the US. Wyoming has 7 ISR facilities operable & 2 more licensed for build. There are two ISR mines & a satellite ISR operation in South Australia

**Cameco's Smith  
Ranch ISR Uranium  
Mine, Glenrock,  
WY**



**Rössing Hard  
Rock Uranium  
Mine, Namibia**



**Lowest Capex . Lowest Opex . Lowest Impact**

# GTI Development Plan

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## Building ISR Uranium Resources

Assets Close to Production  
Infrastructure in  
Wyoming



## Targeted Exploration

to Define, Upgrade  
and Expand  
Resources

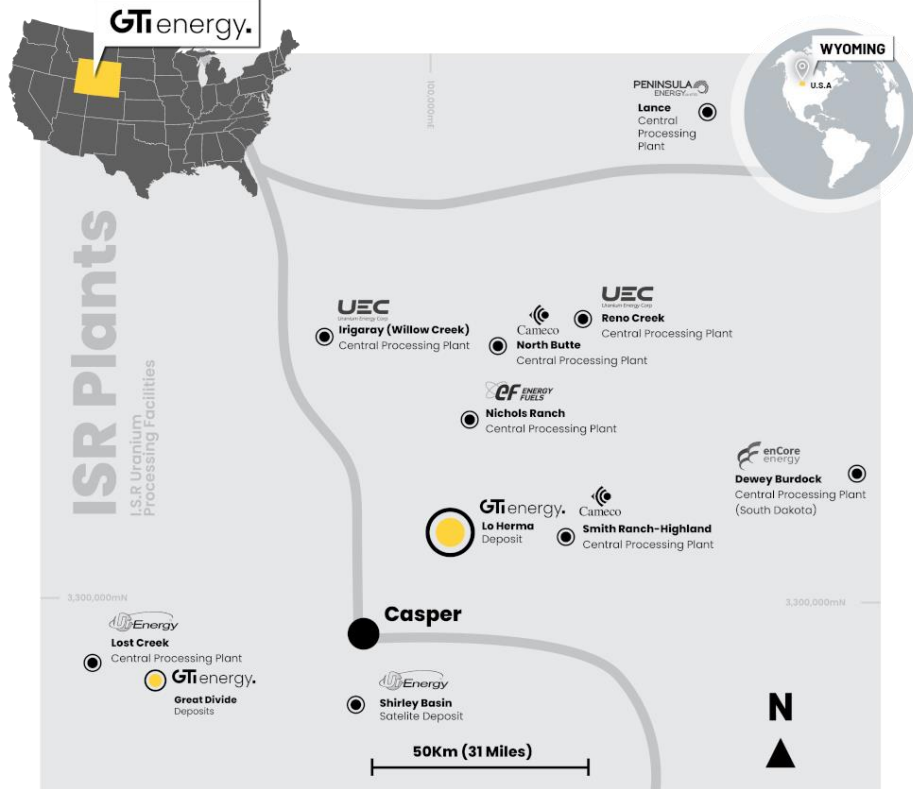


## Creating Development Options

with Potential to Accelerate  
Progress  
due to Location

# Wyoming's ISR Production Facilities

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ISR PLANT/S	MILES FROM GTI DEPOSIT	ISR PLANTS COMBINED PERMITTED CAPACITY
Cameco	< 55	5,500,000
UEC Uranium Energy Corp	< 45	6,300,000
Energy	< 65	3,200,000

ISR PLANT/S	MILES FROM GTI DEPOSIT	ISR PLANTS COMBINED PERMITTED CAPACITY
enCore energy	< 110	1,000,000
PENINSULA ENERGY	< 45	3,000,000
CF ENERGY FUELS	< 100	2,000,000

GTI Energy Deposit     Central Processing Plant I.S.R Facility

Sources: GTR ASX Release, 5<sup>th</sup> July 2023, page 13 - <https://announcements.asx.com.au/asxpdf/20230705/pdf/05rbcgd8bq2j9d.pdf>

**Strategically Placed**

# Satellite Mining Strategy (ISR Hub & Spoke).

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COMPANY	ISR URANIUM DEPOSIT NAME	-MILES FROM GTI	MBS U <sub>3</sub> O <sub>8</sub> (UNRECOVERED INDICATE & REFERRED)	GRADE AVE PPM U <sub>3</sub> O <sub>8</sub>	MBS U <sub>3</sub> O <sub>8</sub> EXPLORATION TARGET
GTI	Lo Herma		5.7	630	5.9 - 10.3 (500-700PPM U <sub>3</sub> O <sub>8</sub> )
CAMECO	Smith Ranch-Highland	10	4.1	800	-
UEC	Barge	10	4.3	510	-
UEC	Ludeman	15	9.7	910	-
UEC	Allemant-Ross	15	0.5	830	-
UEC	Moore Ranch	30	3.2	600	-
EFR	Nichols Ranch (incl. Hank & Jane Daugh)	45	7.2	1000 - 1300	-
CAMECO	North Butte-Brown Ranch	45	36	300	-
UEC	Reno Creek	50	26	410	-
UEC	Irigaray	55	5.9	760	-
UEC	Christensen Ranch	55	9.6	730	-
UEC	Charlie	55	3.1	1230	-
ENCORE	Dewey Burdock	100	18	655	-
PEN	Lance/Ross	110	53.7	480	104-163 (426-530PPM U <sub>3</sub> O <sub>8</sub> )
GTI	Great Divide Basin (GDB)		1.7	570	6.1 - 9.5 (420-1500PPM U <sub>3</sub> O <sub>8</sub> )
UEC	Jab	5	4	730	-
URE	Lost Soldier	10	14	650	-
URE	Lost Creek	15	18	460	-
URE	Shirley Basin	50	8.8	2300	-

Powder River Basin  
GDB

Data Source References for table:

- <https://www.eia.gov/uranium/production/quarterly/qupdtable4.php>
- [https://www.sec.gov/Archives/edgar/data/1334933/000143774922022435/ex\\_423213.htm](https://www.sec.gov/Archives/edgar/data/1334933/000143774922022435/ex_423213.htm)
- <https://www.cameco.com/businesses/uranium-operations/suspended/suspended-smith-ranch-highland/reserves-resources>
- [https://dlia3yog0oux5.cloudfront.net/\\_0165d3b080b7d266644acb9bb79777d/urenergy/db/640/5509/pdf/202306+June+Corp+Presentation.pdf](https://dlia3yog0oux5.cloudfront.net/_0165d3b080b7d266644acb9bb79777d/urenergy/db/640/5509/pdf/202306+June+Corp+Presentation.pdf)
- <http://static1.sqspscdn.com/static/503515/5753362/1266121044317/Lost+Soldier+43-101.pdf>
- <https://wcsecure.weblink.com.au/pdf/PEN/02664858.pdf>
- <https://www.sec.gov/Archives/edgar/data/1385849/000127956917000321/ex991.pdf>

The initial Exploration Targets do not include areas of Mineral Resource. The potential quantity and grade of the Exploration Targets is conceptual in nature. There has been insufficient exploration to estimate a JORC-compliant Mineral Resource. It is uncertain if further exploration will result in the estimation of a Mineral Resource in the defined exploration target areas.

## Satellite Mining





# GTI Exploration Projects

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## Lo Herma



### Advanced Exploration

Significant historic drilling  
JORC resource defined,  
exploration target expanded.  
Drill planning advancing to  
verify & expand resource in  
late 2023 or H2 2024

## Great Divide Basin



### Brown Fields Intermediate

2nd round of drilling  
completed. Maiden JORC  
resource reported Q1 '23.  
Follow-up drill plan being  
developed

## Green Mountain



### Brown Fields Earlier Stage

Preliminary drill targeting  
completed based on historical  
data. Aerial geophysics flown to  
help refine drill targeting. Planning  
in progress for maiden drilling

# Resources & Exploration Targets

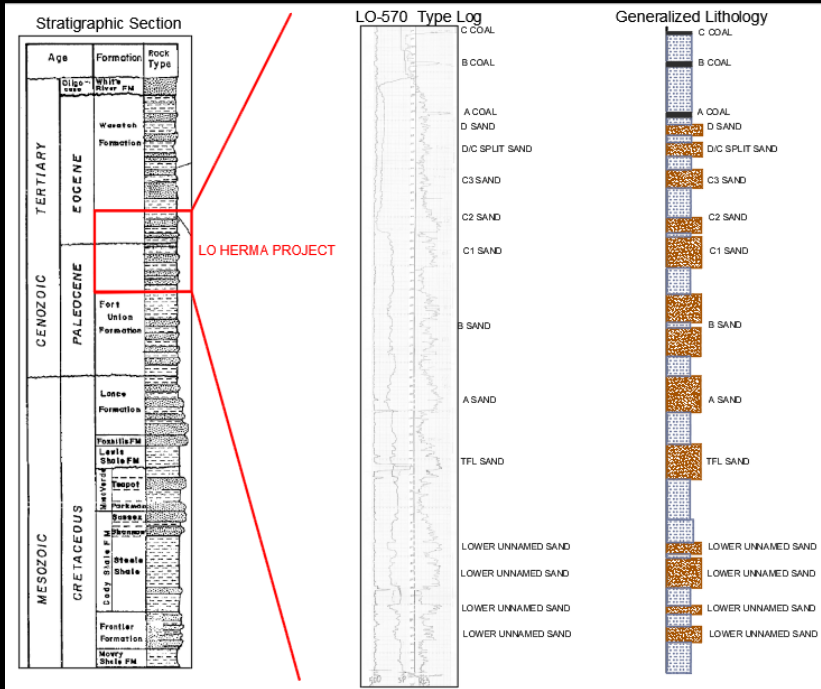
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INFERRED MINERAL RESOURCE ESTIMATES (MRE)*		TONNES (MILLIONS)		AVERAGE GRADE (PPM U <sub>3</sub> O <sub>8</sub> )		CONTAINED U <sub>3</sub> O <sub>8</sub> (MILLION POUNDS)	
LO HERMA INFERRED MRE		4.11		630		5.71	
GDB INFERRED MRE		1.32		570		1.66	
WYOMING TOTAL INFERRED MRE		5.43				7.37	
EXPLORATION TARGETS**		MIN TONNES (MILLION TONNES)	MAX TONNES (MILLION TONNES)	MIN GRADE (ppm U <sub>3</sub> O <sub>8</sub> )	MAX GRADE (ppm U <sub>3</sub> O <sub>8</sub> )	MIN LBS (MILLION U <sub>3</sub> O <sub>8</sub> )	MAX LBS (MILLION LBS U <sub>3</sub> O <sub>8</sub> )
GDB Exploration Target Range		6.55	8.11	420	530	6.10	9.53
Lo Herma Exploration Target Range		5.32	6.65	500	700	5.87	10.26
<b>TOTAL EXPLORATION TARGET</b>		<b>11.87</b>	<b>14.76</b>			<b>11.97</b>	<b>19.79</b>

\* Refer to ASX release on 05 July 2023

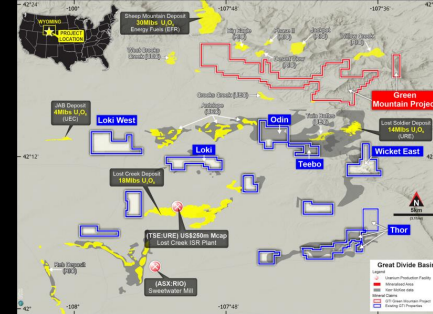
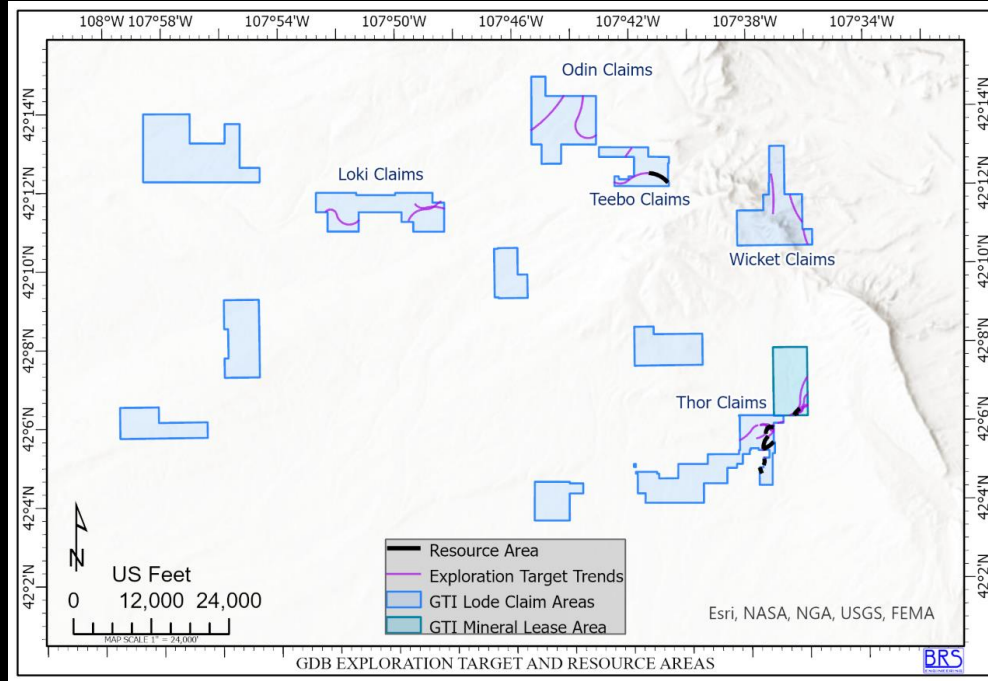
\*\* The initial Exploration Targets do not include areas of Mineral Resource. The potential quantity and grade of the Exploration Targets is conceptual in nature. There has been insufficient exploration to estimate a JORC-compliant Mineral Resource. It is uncertain if further exploration will result in the estimation of a Mineral Resource in the defined exploration target areas.

# Lo Herma Exploration



- 3,300 acres with 1970's data set incl. 1,771 drill logs (~530,000 ft)
- Sufficient historical data for initial inferred resource of 5.7Mlbs @ 630ppm & significant Exploration Target
- Most historical drilling limited to ~400 ft targeting conventional mining in the Wasatch Formation.
- Drilling planned to verify historic drilling & test targets along trend & at depth
- Deeper sands of the Fort Union Formation are untested. Cameco production from Fort Union, 10 miles away, at Smith Ranch-Hyland.

# Great Divide Exploration

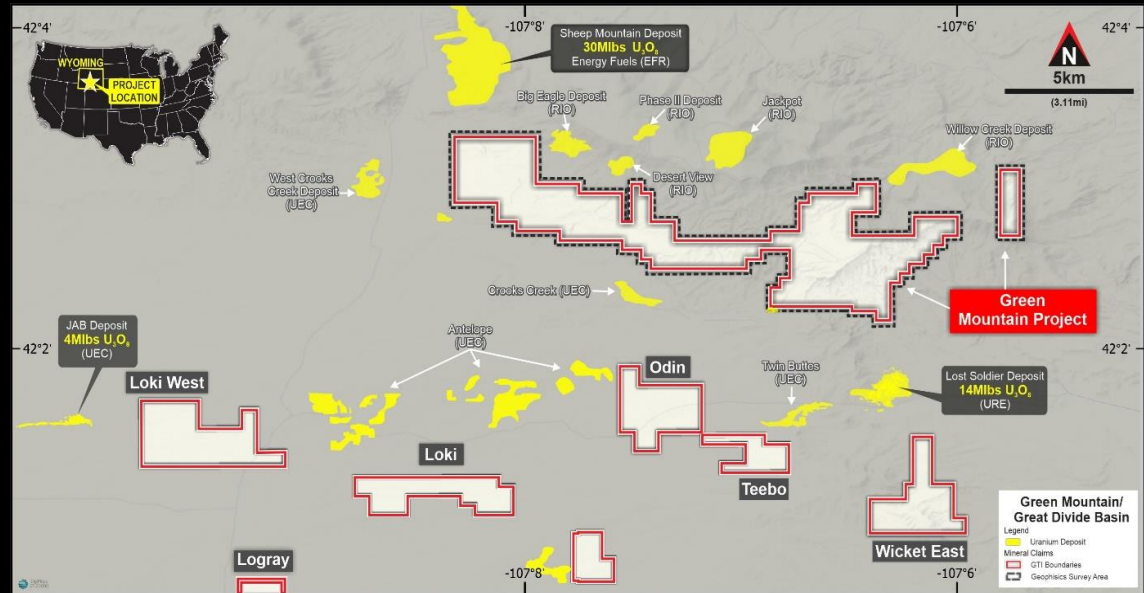


- Inferred resource of 1.66Mlbs @ 570ppm plus significant exploration target
- Historical data plus 170 holes drilled to date for ~25,000m
- Geophysics @ Loki West completed
- Permitted for follow-up drilling at Wicket East & Teebo

# Green Mountain Exploration



- Aerial geophysics data now collected – final report pending September
- Preliminary drill targets to be refined based on geophysics
- Permitting to follow on from drill targeting
- Potential drilling 2024



## Upcoming

# Key Activities

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## Coming up

**2023** Lo Herma *Drill Planning & Permitting.*  
**Green Mountain** *Final geophysics report. Drill Plan Refined, Permitting*  
Lo Herma *Verification Drilling late 23 or H2 2024*

**2024** Lo Herma *H2 Drilling – Potential PEA*  
**Green Mountain** *Maiden Drilling H2*  
GDB *Further Drilling TBA*

## Completed to date

**2020** GDB *ISR Project Acquired*  
Secured Team  
**Maiden Drilling Success**  
100 drill holes

**2021** Gold *Divested to ASX:R8R*  
**Name Change to GTi Energy**  
**Green Mountain Project**  
Acquired

**2022** GDB **Follow up Drilling**  
completed end 2022  
103 drill holes  
**Green Mountain** *Drill Targets*  
**Lo Herma** *Staking*  
Commenced

**2023** Lo Herma *Staking & Historical Data*  
*Acquired. Data Digitised.*  
*Exploration Target Reported,*  
*Maiden Resource Reported &*  
*Airborne Geophysics Flown*  
**GDB** *Maiden Resource Q1 2023*  
**Green Mountain** *Geophysics Flown*

# Corporate Summary



GTi Energy Ltd as at 31 July 2023

<b>Markets</b>	ASX & OTC
<b>ASX Codes</b> <b>OTC Code</b>	GTR & GTRO GTRIF
<b>ASX Share Price</b> (31/7/2023)	~A\$0.07
<b>Total Ordinary Shares</b>	1,947,754,158*
<b>Market Capitalisation (Range)</b>	~A\$14 – 17M
<b>Cash (June Quarterly 2023)</b>	~A\$3.5M**

\* Ordinary shares does not include:

- 442,387,159 listed options (ASX: GTRO) exercisable at \$0.03 expiring on or before 20/10/2024
- 5,500,000 unexercised performance rights held by directors and management of GTI
- 37,500,000 unvested & unexercised performance rights held by the vendors of Branka Minerals LLC

\*\* Does not include circa A\$490k in Wyoming state drilling bonds which will are expected to be recovered during 2023/4

# Board & Management



<b>Nathan Lude</b> Non-Executive Chairman	Specialist in the asset & fund management, mining & energy industries. Founder of advisory firm Advantage Management & previous directorships with several ASX listed companies. Exec Director of ASX listed Hartshead Energy (ASX:HHR).
<b>Bruce Lane</b> Executive Director/CEO	Instrumental in the successful acquisition, funding and exploration of a number of uranium exploration projects during the last 15 years most notably with ASX listed companies Atom Energy Ltd and Stonehenge Metals Ltd.
<b>James Baughman</b> Executive Director	QP (SME-RM) GDB/Red Desert, Wyoming Geologist. Member of SME & a Qualified Person the TSX & ASX. Former President & CEO High Plains Uranium (sold for US \$55M in 2006) & Cyclone Uranium. 30+ years experience, held senior positions incl. Chief Geo, Chairman, President, CFO & COO in private & public companies.
<b>Peter Tomasevic</b> Non-Executive Director	Financial services professional working with numerous ASX-listed companies in marketing/investor relations. MD of Vert Capital, Non-Exec Director Regener8 Resources (ASX:R8R)
<b>Doug Beahm</b> Consultant	PE, PG, QP, Principal BRS inc. Riverton, Wyoming. Principal Engineer with 45+ years experience in mineral exploration & project evaluation. Professional Engineer (Wyoming, Utah, & Oregon) & Professional Geologist (Wyoming). Worked in uranium exploration, mining & mine land reclamation in the Western US since 1975. Discovered the Jab deposit in Wyoming's GDB.



# The Wrap Up



1

**USA re-commits to nuclear & domestic U<sub>3</sub>O<sub>8</sub>**  
creating a generational opportunity for US domestic uranium producers

2

U<sub>3</sub>O<sub>8</sub> demand & price **improving dramatically**  
as supply tightens significantly

3

GTI's projects are in a **top tier ISR mining jurisdiction**  
with the world's largest nuclear power utility customers on the doorstep

4

GTI plans to **deliver more JORC resources in 2024**

5

GTI is surrounded by uranium companies pursuing "hub and spoke" ISR mining strategies with central processing plants & satellite deposits

6

GTI is **positioned to benefit** based on exploration success and a stronger uranium price

**Clean Mining . Cleaning Energy . Clean Future**



2 August 2023

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**Thank You .**

[gtienergy.au](https://gtienergy.au)

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