

# CLEAN FUEL FOR A CLEAN ENERGY F<sup>92</sup>UTURE

Focussed on defining and developing economic **ISR uranium** resources - GTi is part of the US nuclear renaissance

**GTi**energy.

Clean Mining. Clean Energy. Clean Future.

**OTC**Markets  
**Metals & Mining**  
Virtual Investor Conference

Bruce Lane (Executive Director) - July 2022

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## COMPETENT PERSONS STATEMENT

The information in this announcement that relates to the 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 and Ore Reserves. Mr Beahm provides his consent to the information provided relative to the planned Section 36 exploration programme herein.

NEW BUILD

## World Economic Forum / Net Zero Will Need Doubling Of Nuclear Capacity, Says IAEA Chief

By David Dalton  
26 May 2022

*Rafael Grossi also highlights potential of small modular reactors and hydrogen economy*

**BALKAN GREEN ENERGY NEWS**

ENERGY CRISIS | RENEWABLES | ENERGY EFFICIENCY | ELECTRICITY | ENVIRONMENT | CLIMATE CHANGE | MOBILITY | FEATURES | INTERVIEWS | EVENTS | JOBS | VIDEOS

ENERGY CRISIS

## Romania picks site of old coal power plant for first small nuclear reactor in Europe

INVESTING | Commodities | Company News | News Wire

May 24, 2022

## California Seeking Federal Funds to Keep Last Nuclear Plant Open

Mark Chediak, Bloomberg News



(Bloomberg) -- California asked the Biden administration whether it could qualify for federal funds to support its last nuclear power plant as the state grapples with potential electricity shortfalls.

## Poll: 53 Percent of Voters — Build New Nuclear US Power Plants



A nuclear power plant on the Hudson River, north of New York City. (Mina Andriou/Dreamstime.com)

By Scott Rasmussen  
Thursday, 26 May 2022 11:24 AM  
Current | Bio | Archive

Comment | Print | A A

May 26, 2022: Fifty-three percent (53%) of voters favor building new nuclear power plants in the United States. A Scott Rasmussen national survey found that 31% oppose such building.



bbc.com  
Sizewell C nuclear plant gets go-ahead from government  
The Sizewell C plant is expected to cost £20bn and could provide the UK with 7% of its electricity.

WRITTEN BY ANDREAS LOCHNER ON JUL 19, 2022. POSTED IN LATEST NEWS

## Germany To Rethink Nuclear Shutdown As Energy Crisis Deepens

CLIMATE CHANGE DISPATCH



John Quakes @quakes99 · May 5

US working on #uranium strategy, should not import from #Russia - Granholm 🇺🇸🇷🇺 US working to ensure it can supply low-enriched uranium to fuel existing #Nuclear reactors with a full federal uranium strategy plan now in interagency review process 🗳️🔧🗨️



reuters.com

U.S. working on uranium strategy, should not import from Russia -Gra...  
U.S. Energy Secretary Jennifer Granholm said on Thursday that the United States was working on a strategy to ensure steady uranium ...

## NUCLEAR ENGINEERING INTERNATIONAL

Home News Features Opinion Video Events Jobs Buyers' Guide

## Nuclear newcomers surge

7 July 2022



Dozens of countries are turning to nuclear power to meet their energy needs. The nuclear newcomers are here.



Currently some 30 countries are considering, planning or starting nuclear power programmes as they seek a secure, low-carbon supply of energy. According to Rafael Mariano Grossi, the International Atomic Energy Agency's (IAEA's) Director General, based on their current national plans, 10 to 12 newcomers to nuclear power are expected to have begun development by 2035. There are a number of reactors already under construction in newcomer nations.

## Bloomberg

Asia Edition

• Live Now Markets Technology Politics Wealth Pursuits Opinion Businessweek Equality Green City

BREAKING Amazon Plans to Pull Out of \$7.7 Billion Race for Cricket Rights [Read More](#)

Green  
New Energy

## US Seeks \$4.3 Billion for Uranium to Wean Off Russia Supply

- Plan would boost enriched uranium purchases from US producers
- Biden administration proposal requires approval from Congress

July 7, 2022

4:03 AM GMT+8

Last Updated a day ago

Climate Change

Environment

Energy



## EU parliament backs labelling gas and nuclear investments as green

Department for Business, Energy & Industrial Strategy

## £75 MILLION NUCLEAR FUND OPENS TO BOOST PRODUCTION OF FUEL FOR REACTORS

HM Government

Energy Security Strategy

# THE GTi STORY



Clean Mining. Clean Energy. Clean Future.



Growing **demand** for uranium when uranium **supply** is in deficit which is driving uranium **price up**



The **US** has the **world's largest reactor fleet** and imports 95% of its uranium **BUT** nuclear utilities are switching back to **US domestic supply**



**Wyoming** has been the leading US uranium supply state mostly from **ISR mining** which is the **lowest cost, lowest impact** form of mining



GTi has secured **high potential ISR exploration assets**, completed **successful maiden drilling**, secured **funds & a 1st rate US team**



The team is on track to deliver **100,000ft of new drilling** before christmas this year followed by a **maiden ISR uranium resource** in 2023

# URANIUM DEMAND OUTSTRIPPING SUPPLY

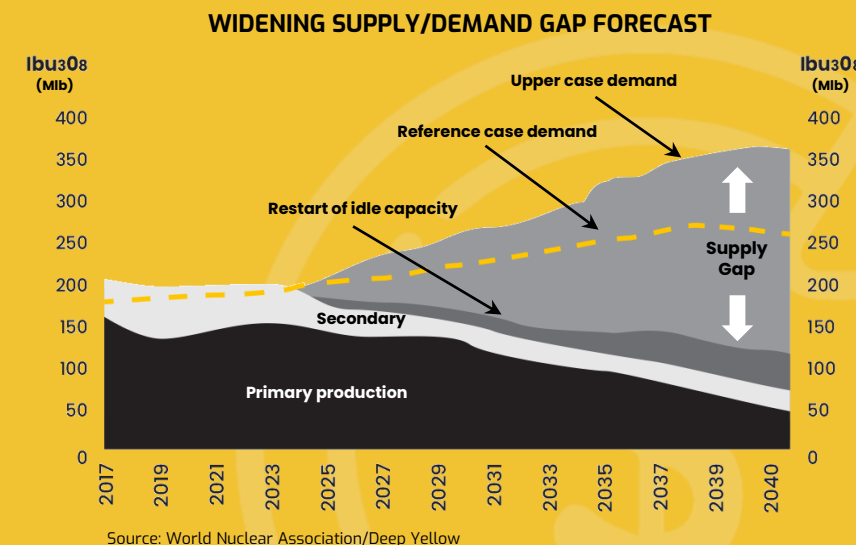
## URANIUM DEMAND IS GROWING

- Climate response is driving sustained rapid global nuclear power growth
- Reversal of reactor shut down decisions – Japan, France, US, South Korea
- Global reactor building renaissance – China, India, Russia & UAE SMR's
- Renewables only part of the solution – EU categorises uranium as “green”
- Financial players like Sprott & miners/developers aggressively buying  $U_3O_8$

## URANIUM SUPPLY IS DECLINING

- Cheap Kazak ISR  $U_3O_8$  lead to global under-investment in new supply
- Lately Kazatomprom & Cameco output is down, mine retirements, COVID
- Geopolitical instability (Russian sanctions?) & Biden admin response
- Return of the east/west bifurcated uranium market – western conversion and enrichment capacity needs to be rebuilt
- Financial players like Sprott & miners/developers aggressively buying  $U_3O_8$

## MAJOR $U_3O_8$ SUPPLY & DEMAND IMBALANCE



- 440 nuclear power reactors operating in 32 countries
- 55 reactors currently being constructed in 18 countries
- 90 reactors on order or planned & over 300 more proposed

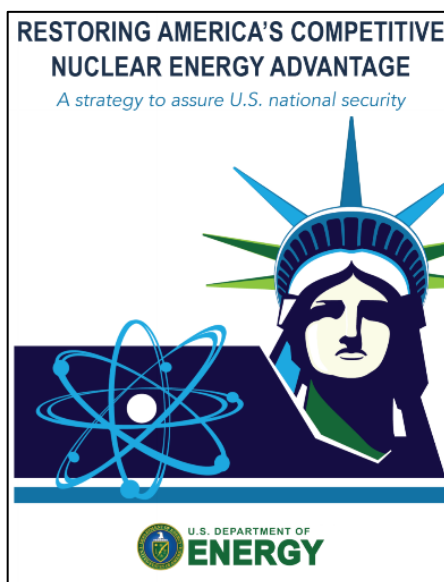
Source: Plans for New Nuclear Reactors Worldwide - World Nuclear Association (world-nuclear.org)



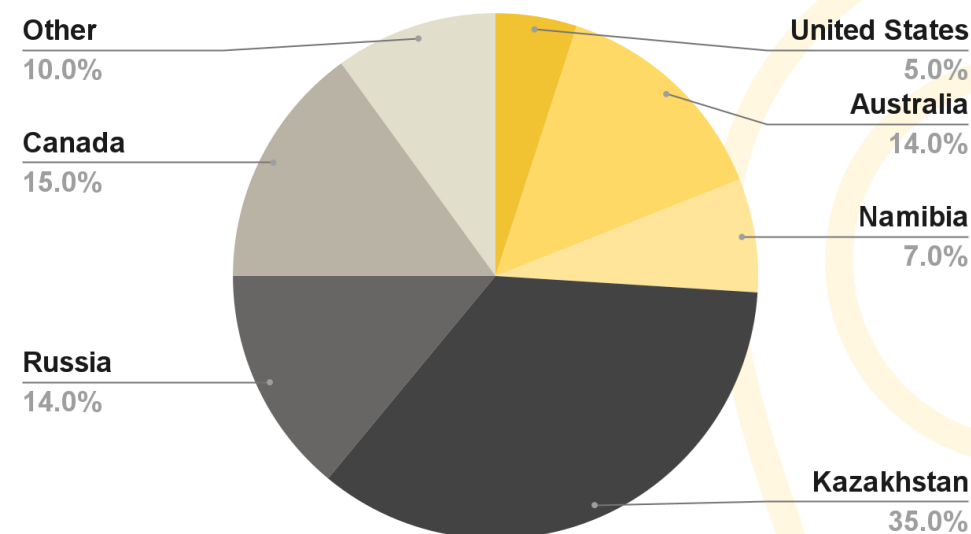
# THE US WAKES UP - DOMESTIC URANIUM IS KEY

- World's largest reactor fleet & uranium consumer has 98 reactors importing 95% of ~47Mlbs p.a. requirements
- **20%** of US baseload & **50% of US clean energy** comes from nuclear underpinning **netzero** emissions reduction targets
- US to maintain nuclear reactor fleet with **\$6Bn in grants**
- **BUT** US domestic uranium production has collapsed due to subeconomic pricing
- **Strategic Uranium Reserve commits the** Biden admin to Buying **US\$1.5bn** of US uranium over 10 yrs<sup>1</sup>
- US nuclear power & domestic uranium supply sectors are being **"rebooted"**

1. <https://www.energy.gov/sites/prod/files/2020/04/f74/Restoring%20America%27s%20Competitive%20Nuclear%20Advantage-Blue%20version%5B1%5D.pdf>



## WHERE DOES THE U.S GET ITS URANIUM?



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

# WHY DID GTI CHOOSE WYOMING?

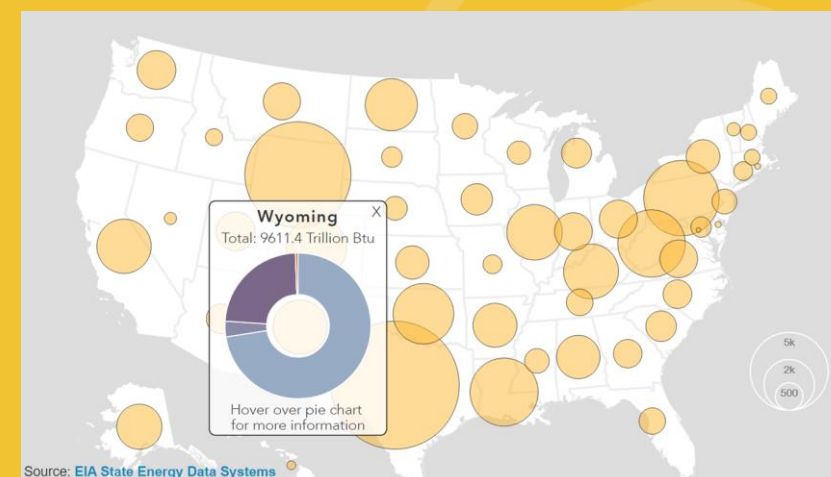


- 2nd largest **energy state** in the US
- The leading uranium state (~80% of US output) with a long history of uranium mining starting late 1940's
- ISR mining practiced commercially in Wyoming since mid 1980's
- Wyoming roll front deposits suit ISR mining when they are below ground water table & amenable to control of leach solutions
- **Fraser Institute** 2020 ranks Wyoming 2<sup>nd</sup> of 78 jurisdictions
- 7 Wyoming ISR facilities operable now & 2 more licensed for build
- ISR mining – lower OPEX, lower CAPEX & less environmental impact

**Wyoming is the heart of US uranium mining industry & will lead its production renaissance**

## ENERGY PRODUCTION IN TRILLION BTU: 2022

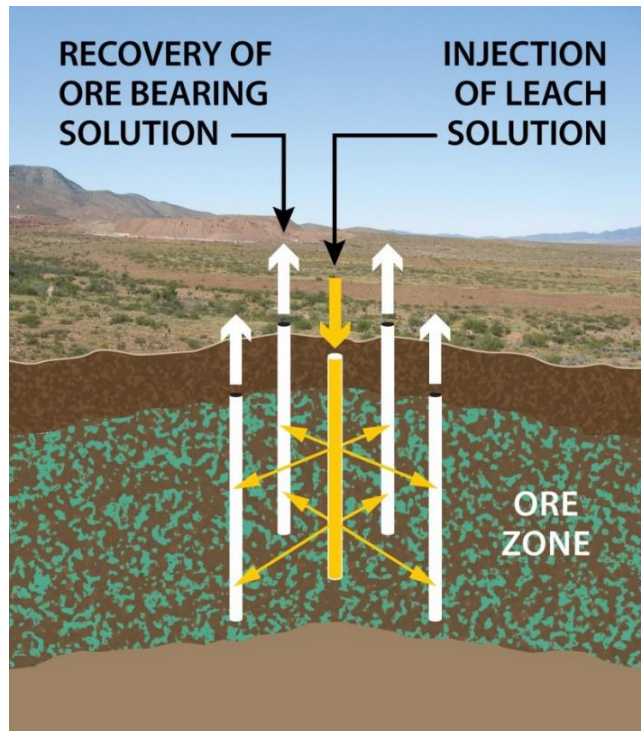
### WYOMING ENERGY STATE



# INSITU RECOVERY (ISR) SOLUTION MINING

ISR (ISL) 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

ISR uses a leach solution which is injected into permeable mineralised ore zones to remobilise uranium from an ore body. The uranium-bearing solution is then pumped to surface & recovered in a processing plant



**Lowest Capex, Lowest Opex,  
Lowest Impact**



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

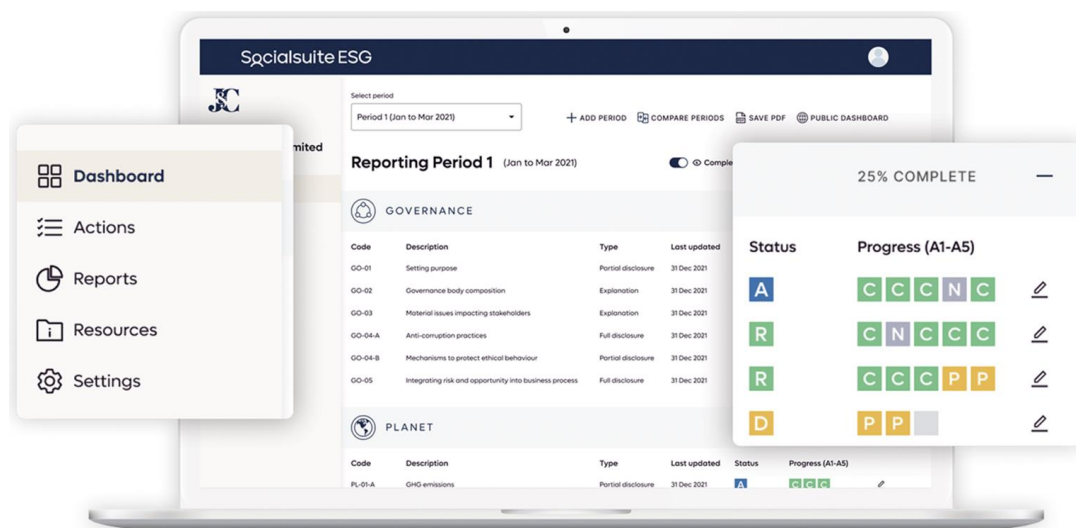


Rössing Hard Rock Uranium Mine, Namibia

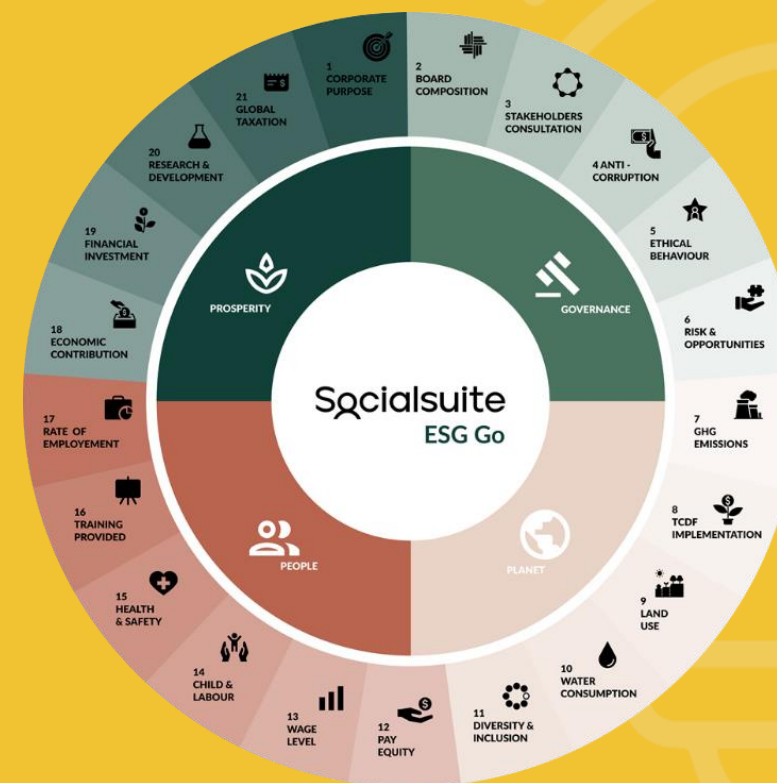


# OUR APPROACH TO ESG

- GTI to deliver shareholder value through best practice governance
- ESG Reporting implemented – enabled by Socialsuite platform
- “Climate Active” certification will enable auditing of emissions
- Carbon credits acquired to offset GTI operational emissions
- Uranium fuels the nuclear power industry which emits zero CO<sub>2</sub>
- **ISR mining has the lowest environmental & climate impact**

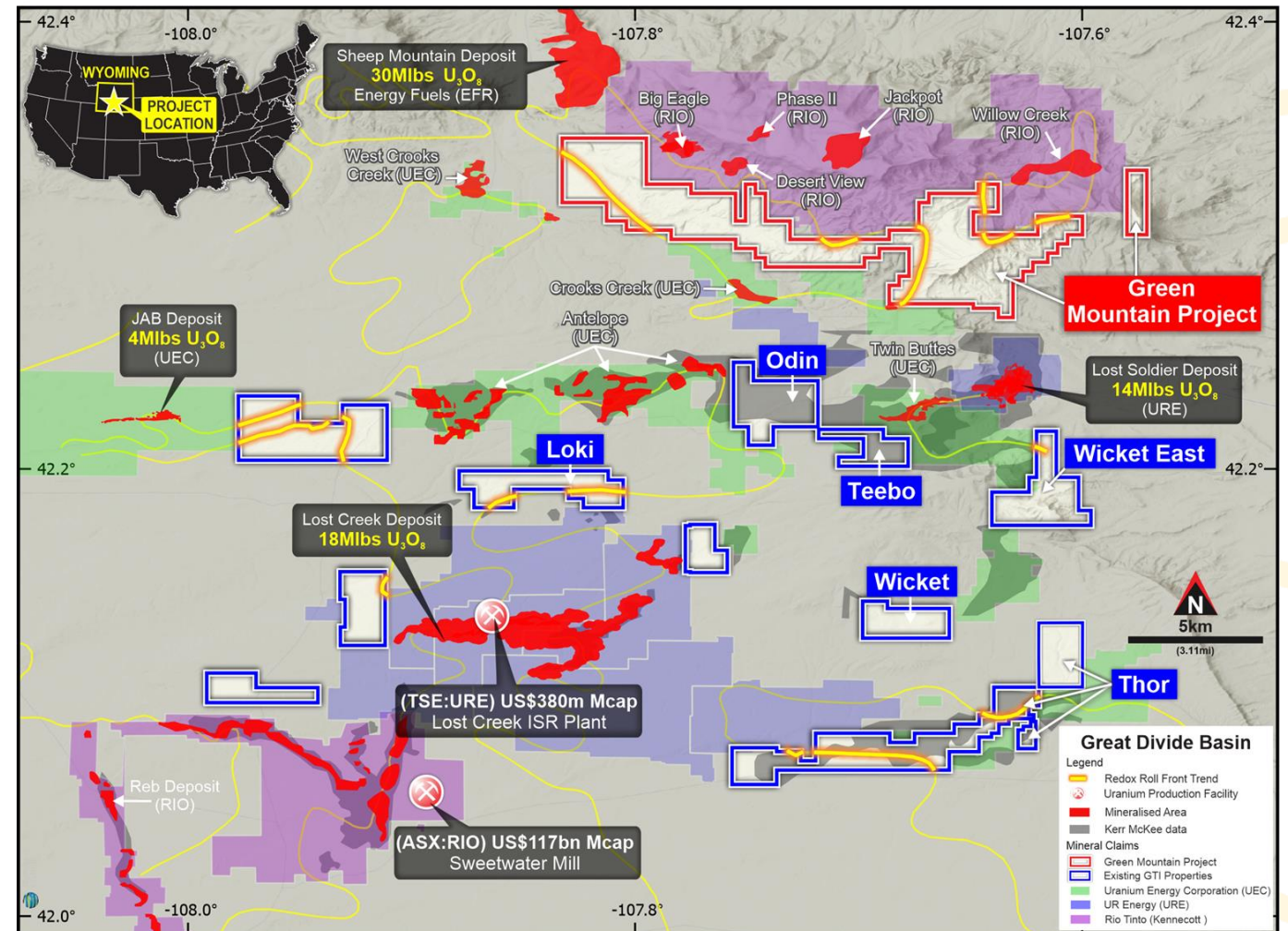
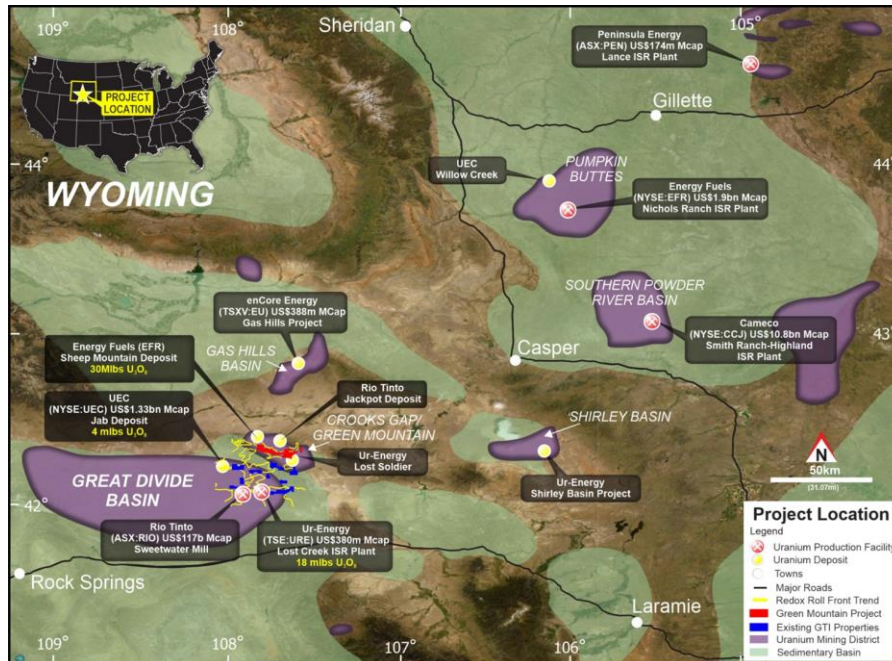


## ESG GO'S 21 CORE & 34 EXPANDED STAKEHOLDER CAPITALISM METRICS



# WYOMING ISR PROJECTS - LOCATION

**Richly mineralised basins  
with ISR amenable deposits  
& active producers**



# WHY THE GDB & GREEN MOUNTAIN PROJECTS?

- Proven ISR uranium prospective geology
- The Basin was drilled in 1970's/80's by US majors incl Kerr McGee Uranium, Conoco Minerals, Phillips, Wold Nuclear Co, Union Carbide, Occidental Petroleum, Western Nuclear & Pathfinder Mines. Data mostly confidential but Kerr McGee released data incl. **drill maps**
- **GTI's Properties were staked proximate to REDOX front, known deposits & guided by Kerr McGee drilling maps**
- Close to major players are Ur-Energy (producing), Rio Tinto & UEC
- **Notable nearby deposits** include Energy Fuel's (EFR) 30Mlb Sheep Mountain, Ur-Energy's (URE) Lost Soldier, UEC's (UEC) Jab & Antelope & Rio Tinto's (RIO) Big Eagle (past producing), Jackpot, Desert View, Phase II and Willow Creek
- **Ur-Energy's Lost Creek ISR facility (~5kms from Thor) is claimed to be the lowest cost outside Kazakhstan**

## UR-ENERGY'S OPERATING LOST CREEK ISR PLANT

LOCATED CIRCA 5KM FROM GTI'S THOR PROJECT, GDB, WYOMING





# THOR - SUCCESSFUL MAIDEN DRILLING 21/22

- **~15,000m (100 holes)** completed early 2022 on schedule/budget
- Discovered **17,640 ft (3.3 miles)** of uranium mineralised roll fronts
- Mineralisation shows **characteristics for ISR** recovery success
- Discovered at least **3 separate roll fronts** in the main host sand down to ~400ft
- **35 holes met or exceeded targeted** uranium cutoff grade
- 23 holes drilled recording better than a minimum targeted economic Grade Thickness (GT) cutoff of 0.2GT<sup>2</sup> with an average of 0.57 GT

## MUD ROTARY DRILL RIGS OPERATING AT THE THOR PROJECT, GDB, WYOMING



<sup>1</sup> ASX release 29 March 2022

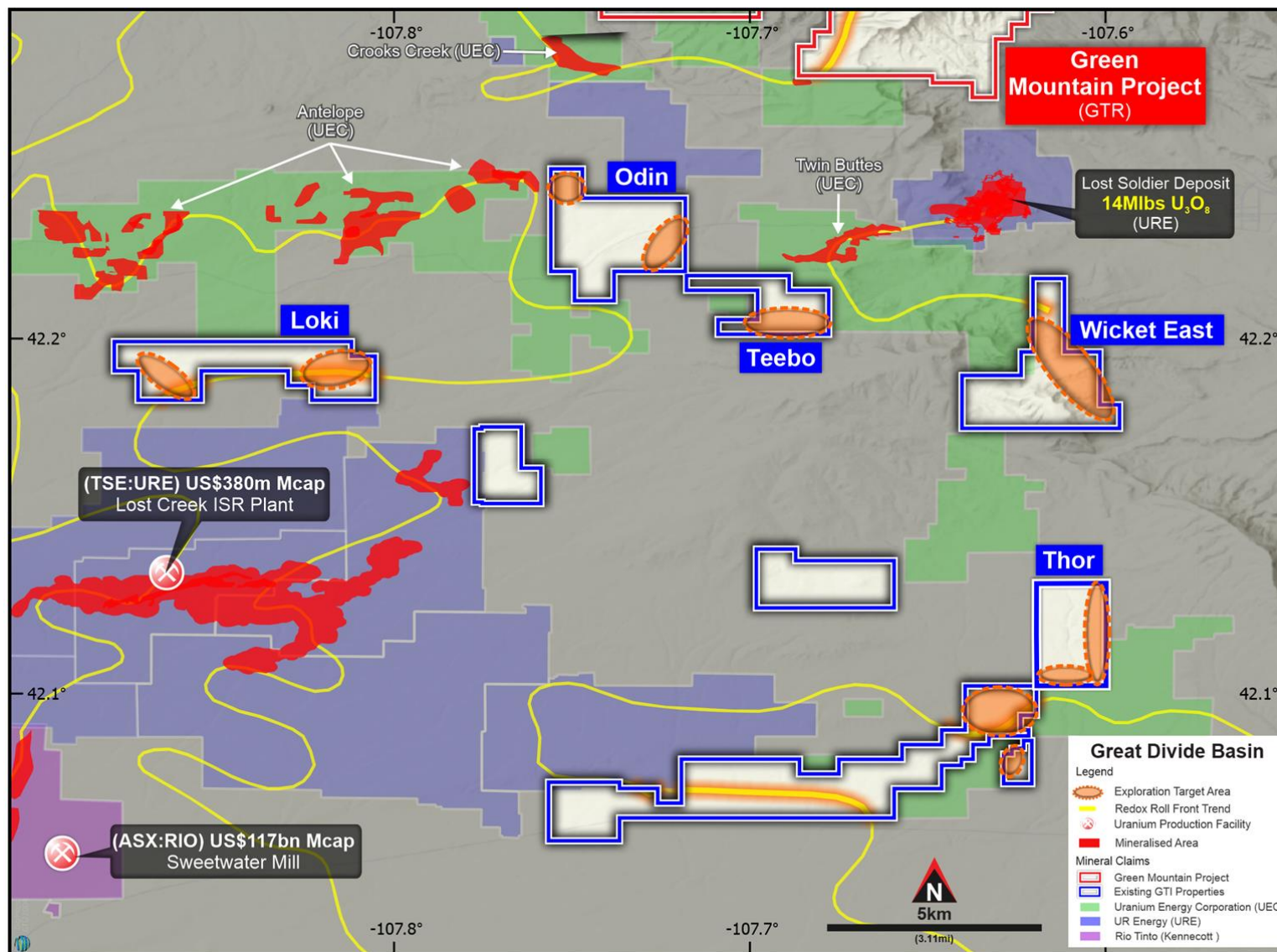
<sup>2</sup> Typical economically viable ISR grade & GT cut-offs are: 0.02% (200 ppm) U<sub>3</sub>O<sub>8</sub> & 0.2GT i.e., 10 ft (3m) @ 0.02% (200 ppm) U<sub>3</sub>O<sub>8</sub>



# FOLLOW UP 2022 GDB DRILLING



## 100,000ft of drilling

- 40,000ft of follow-up drilling at the **Thor** project
- 60,000ft at the **Wicket East, Teebo, Odin & Loki** projects targeting known roll fronts for ISR amenable uranium
- Drilling to start in the next few weeks & finish by Christmas 2022



# CORPORATE SUMMARY

## GTI Energy Ltd as at 25 July 2022

<b>Markets:</b>	<b>ASX &amp; OTCQB</b>
<b>ASX Codes:</b> 	<b>GTR &amp; GTRO</b>
<b>OTCQB Code:</b> 	<b>GTRIF</b>
<b>Share Price:</b> (25/07/22)	<b>~A\$0.015</b> <b>~US\$0.009</b>
<b>Total Ordinary Shares:<sup>1</sup></b>	<b>1,492,483,579</b>
<b>Market Capitalisation:</b>	<b>~A\$21m</b>
<b>Cash:</b> (last quarterly)	<b>~A\$6.9m</b>

1. Ordinary shares does not include:

- 203,563,707 listed options (ASX: GTRO) exercisable at \$0.03 expiring on or before 20/10/2024
- 18,500,000 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

### NATHAN LUDE

Masters of Asset Management, Post Grad Diploma in Asset Management and Bachelor of Business.  
Non-Executive Chairman

### BRUCE LANE

BCom, MSc (LBS), GAICD.  
Executive Director

### JAMES BAUGHMAN

QP (SME-RM) GDB/Red Desert, Wyoming Geologist.  
Executive Director

### PETAR TOMASEVIC

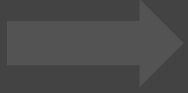
Non-Executive Director

### MATTHEW FOY

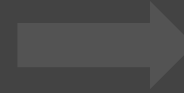
BCom, GradDipAppFin, GradDipACG, SFin, FGIA, FCIS  
Company Secretary

# Our Progress Evolution

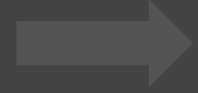
2020



2022



Future



**1st Wyoming  
ISR Project  
Acquired**

**Secured Team**

**Capital Raised**

**ESG Reporting &  
Carbon Neutral  
Commitment**

**Maiden  
Drilling  
Success**  
50,000 ft  
100 holes

**2nd Wyoming  
ISR Project  
Acquired**

**A\$5m Capital  
Raised**

**Gold Project  
Divested**

**Named  
Changed**

**US Director  
Appointed**

**Exploration  
Drilling**

100,000 ft drill  
program completed  
by end 2022

Green Mountain Drill  
Plan/Permits

**Resource  
Report**

2023

**Follow-up  
Drilling**

Green Mountain  
Drilling & GDB  
July 2023

Completed

Upcoming

# CLEAN FUEL FOR A CLEAN ENERGY F<sup>92</sup>UTURE



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**GTi**energy.

Clean Mining. Clean Energy. Clean Future.



**ASX:** GTR & GTRO



**OTC:** GTRIF

gtienergy.au