



SARYTOGAN
GRAPHITE

**THE
ULTRA HIGH PURITY
KAZAKH GIANT**

31 October 2023

IMARC CONFERENCE

INVESTOR PRESENTATION





Giant and exceptionally high-grade Indicated and Inferred Mineral Resource of 229 Mt @ 28.9% TGC¹ with low mining costs.



Ultra-high-purity of 99.99% TGC² achieved by flotation, alkaline roasting and thermal purification, far exceeds battery grade.



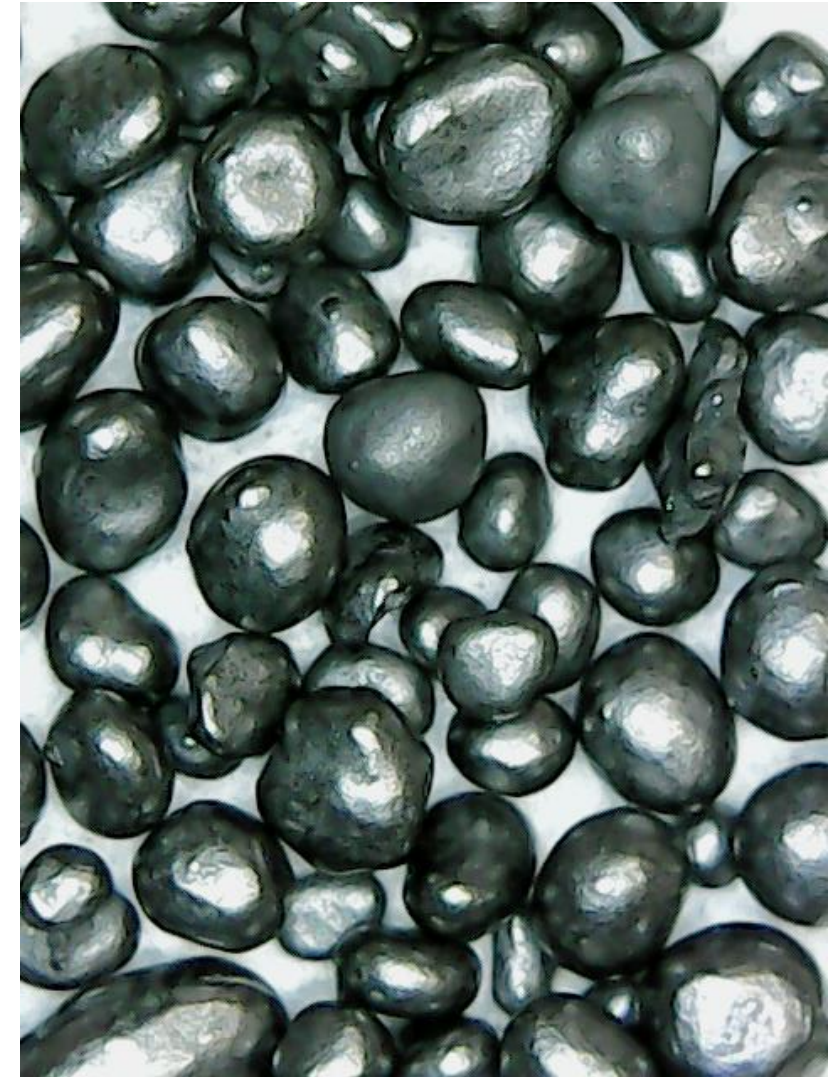
Kazakhstan is an established mining jurisdiction ideally located between the largest battery manufacturers in Europe and China.



Established in-country team progressing exploration and approvals.

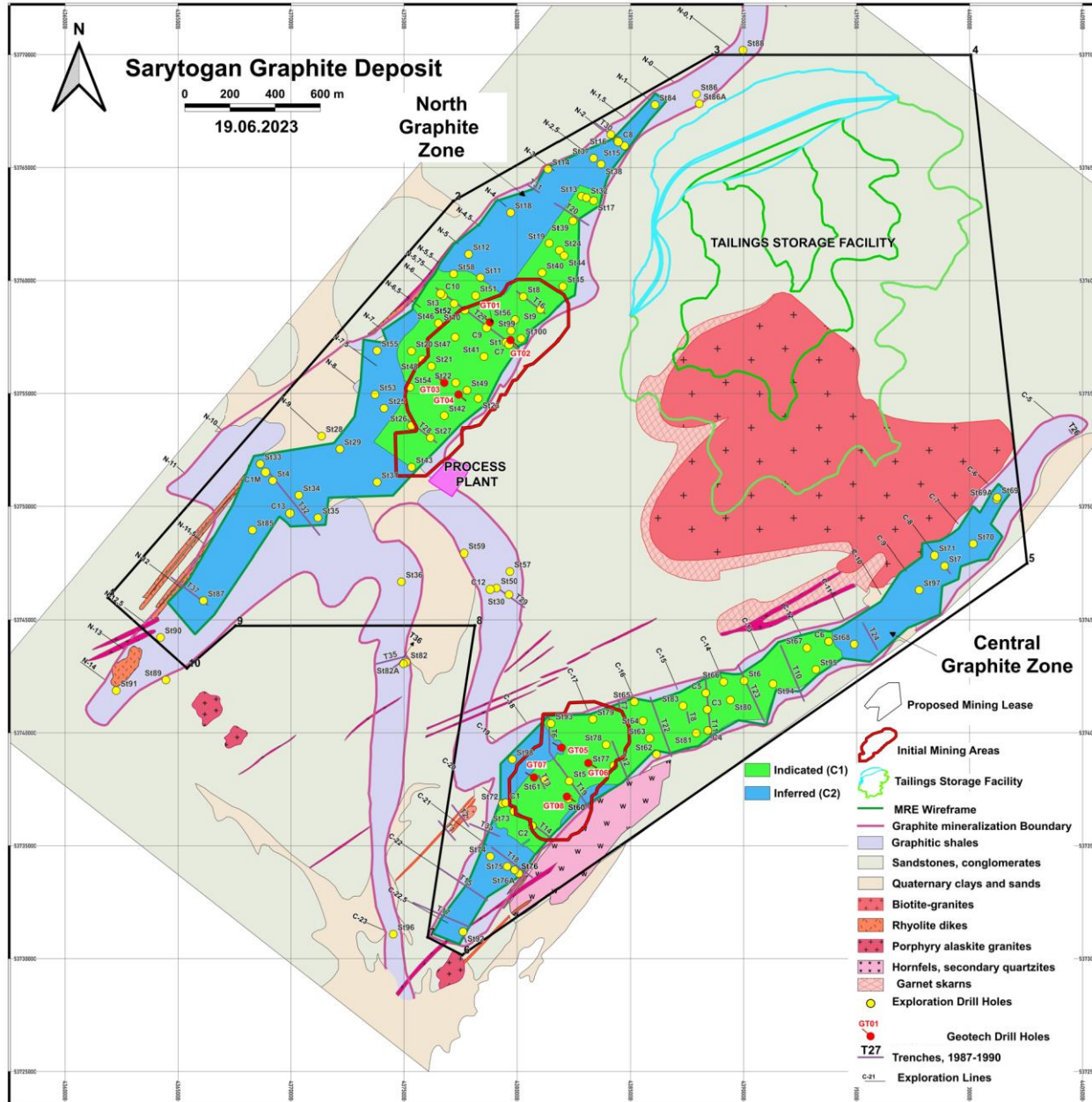


Pre-Feasibility Study (PFS) scheduled for completion by Q3 2023.



Graphite Agglomerates from the Sarytogan Graphite Project³

The Project - Mineral Resource and Preliminary Mine Layout

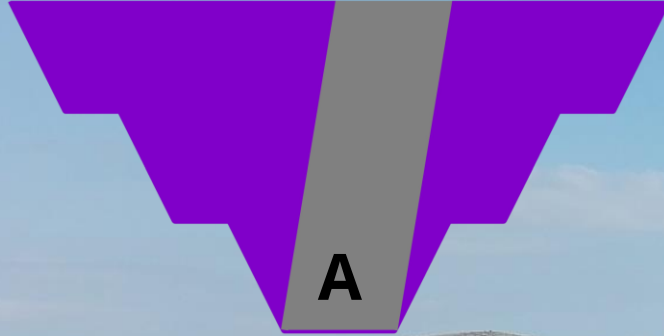


Zone (>15% TGC)	JORC ¹ Classification	In-Situ Tonnage (Mt)	Total Graphitic Carbon (TGC %)	Contained Graphite (Mt)
North	Indicated	87	29.1	25
	Inferred	81	29.6	24
	Total	168	29.3	49
Central	Indicated	39	28.1	11
	Inferred	21	26.9	6
	Total	60	27.7	17
Total	Indicated	126	28.8	36
	Inferred	103	29.1	30
	Total	229	28.9	66

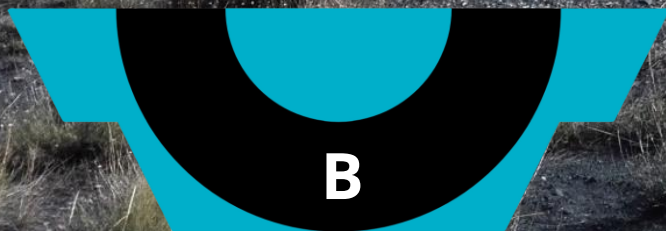
- Graphitic shales enriched by contact metamorphism from intrusion of granitic dome
- Mineral Resource is vast; project size will be determined by the market, not the resource
- Geotech and hydro drilling completed 2023

¹Refer: ASX announcement 27/3/2023

The Project - Grade is King

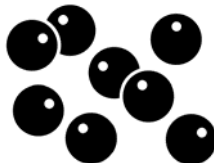
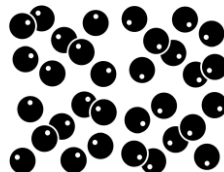
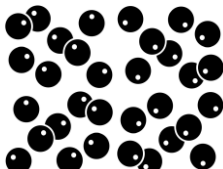


Hypothetical	Mine A	Mine B
Grade	10%	30%
Strip Ratio (W:O)	3:1	1:1
Process, Product	same	same
Mining Costs	\$ 6X	\$ X
Beneficiation Costs	\$ 3Y	\$ Y



This example is hypothetical only and provided to illustrate the effect of grade and strip ratio on mining economics. There are many other factors that influence mining economics. The examples are not intended to represent the Sarytogan Graphite Deposit or any other graphite deposit.

The Project – PFS to Evaluate Two Flowsheet Options

Mining	Flotation	Thermal Flowsheet Option			Anodes
 Low Strip Giant Resource 229 Mt @ 28.9% TGC ¹	 50ktpa Modules 80% TGC ² Saleable Micro-Crystalline Graphite	 Demonstrated ³	 7ktpa Modules 99.99% TGC ⁴ Achieved	 USPG Product Hi-Purity Fine By-Product	 Target 99.95% TGC Uncoated Spherical Purified Graphite (USPG)
		Chemical Flowsheet Option			
		 Spheres to Purification Fine By-Product	 99.70% TGC ⁵ Achieved	 99.87% TGC ⁵ Achieved To Date	

Refer ASX Announcements: ¹ 27/3/23, ² 16/8/22, ³ 30/10/23, ⁴ 28/8/23 and ⁵ 6/12/22 for details.

The Project – Global Test Work Excellence



Sarytogan is a global business
working with experts in every field
to scale up metallurgical and battery test-work
to deliver a Pre-Feasibility Study by Q3 2024

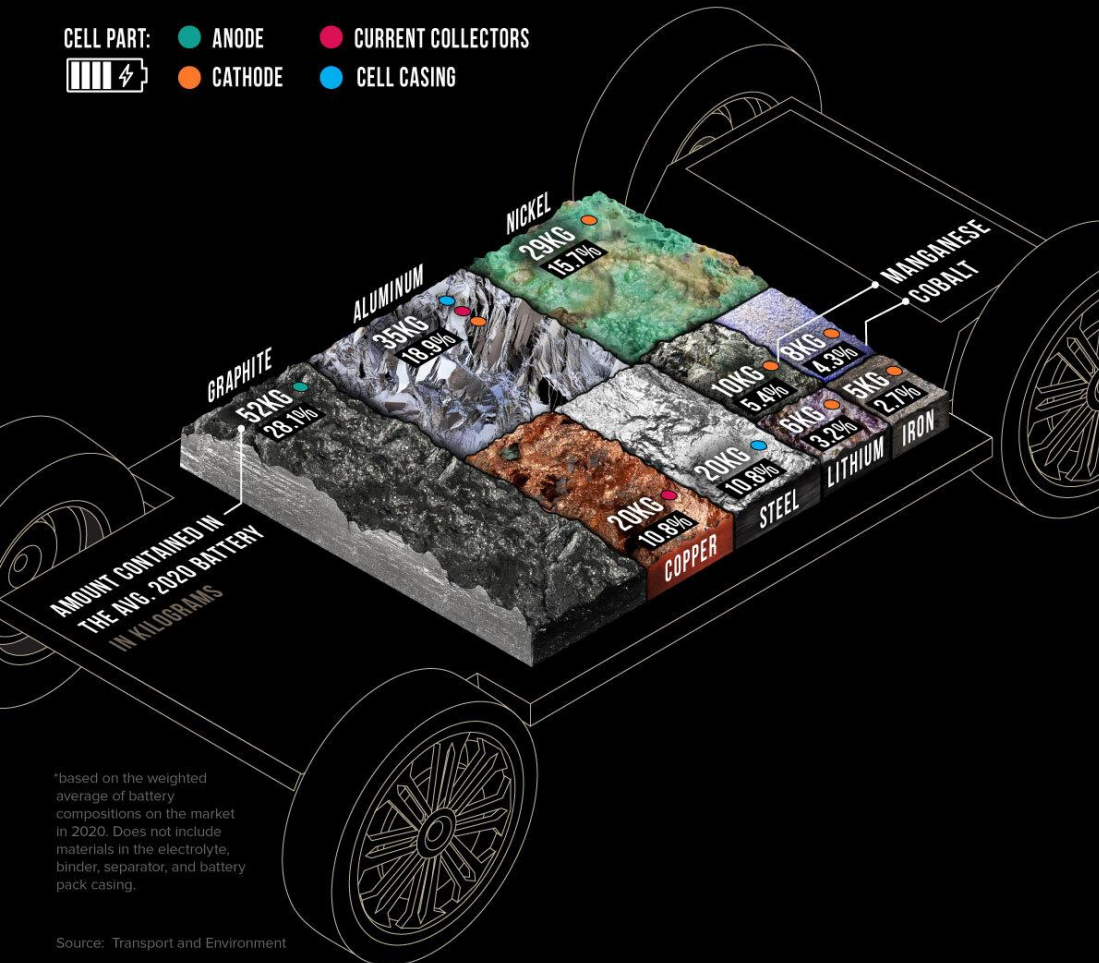
The Market - Graphite is the major raw material in all EV battery types



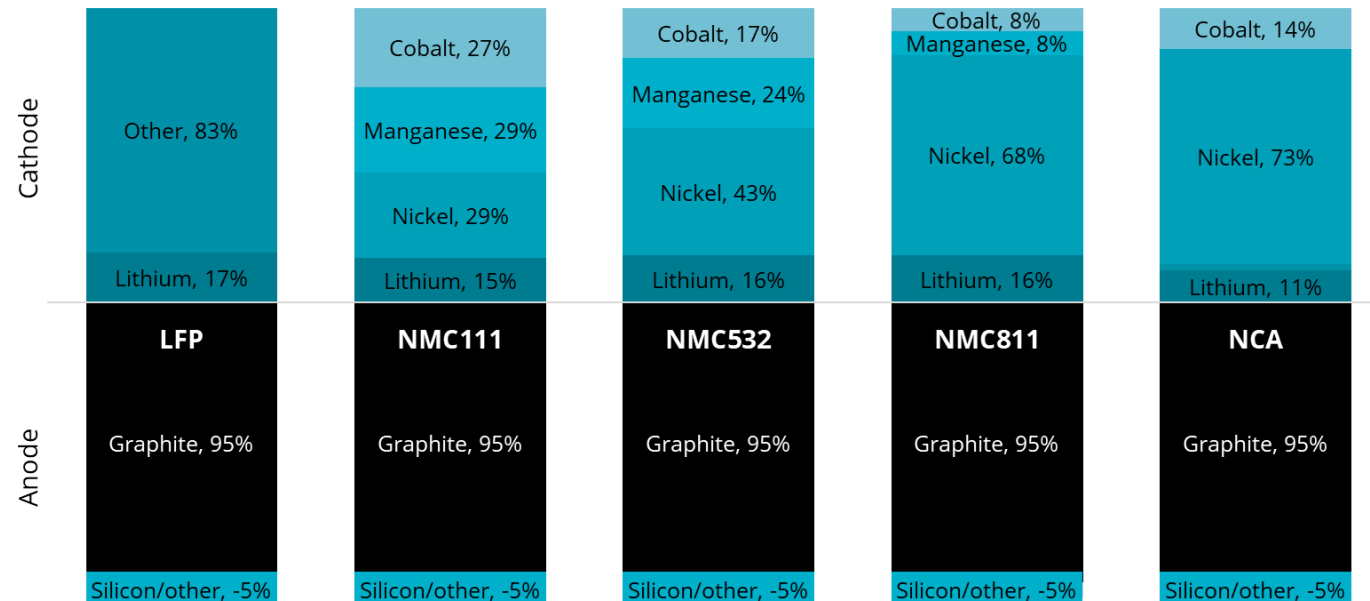
THE KEY MINERALS IN AN EV BATTERY

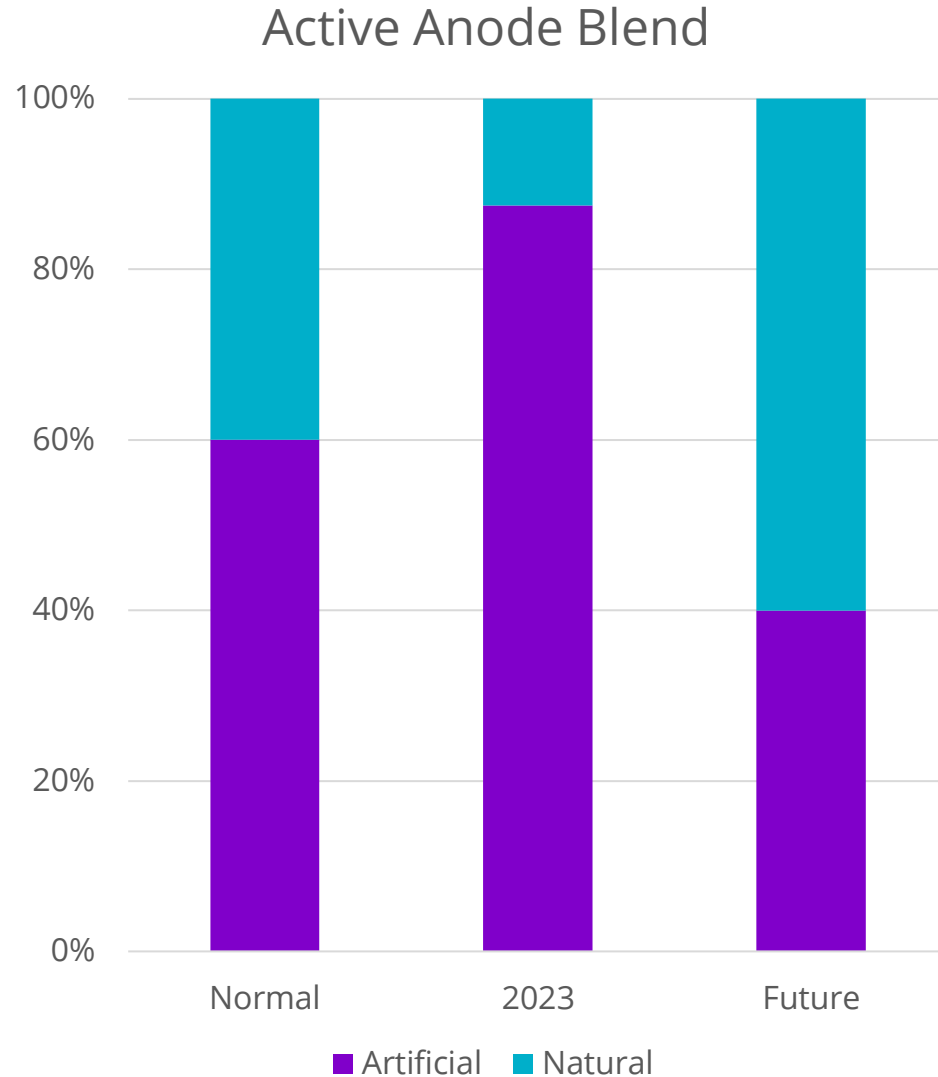
Lithium-ion batteries harness the properties of various minerals to power electric vehicles. The cells in the average lithium-ion battery with a **60-kilowatt-hour (kWh)** capacity contain around **185kg*** of minerals.

CELL PART: ● ANODE ● CURRENT COLLECTORS
● CATHODE ● CELL CASING



- Graphite is the major raw material in EV batteries.
- The EV battery anode is always graphite, regardless of battery chemistry.
- Silicon is limited to 5% as any anode performance gains are not matched on the cathode





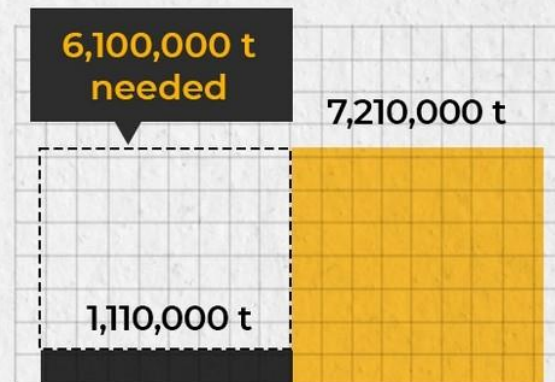
- Natural graphite has been created by geological forces over millennia.
- Artificial graphite requires expensive and CO₂ intensive treatment of fossil fuel by-products.
- China has rapidly expanded synthetic graphite production in 2023 to meet EV demand.
- Policies will mature and insist on greener, lower-cost and high-quality natural graphite.
- Natural graphite demand will be supercharged as a growing proportion of a growing market.

HOW MANY MINES DO WE NEED?

As the lithium ion battery revolution gains momentum, **Benchmark** forecasts just how many mines need to be built to keep up with the exceptional volumes of demand for key raw materials expected by 2035.



■ 2022 Supply Vs 2035 Demand



Natural Graphite

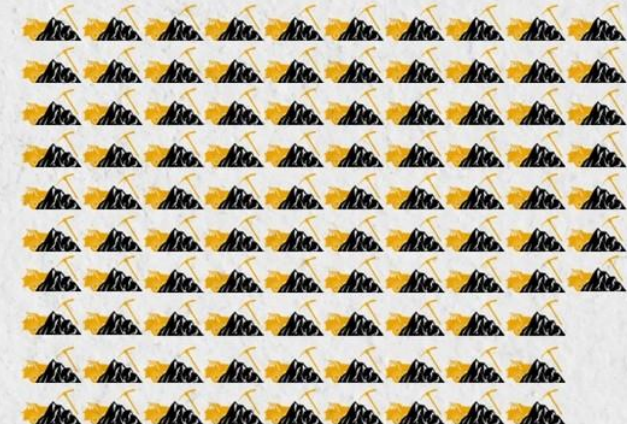


Average Mine/Plant Size



56,000 t

No. of Mines/
Plants Needed



USA Inflation Reduction Act 1/1/2023

Tax credits for EVs with majority of battery minerals from FTA countries & nil China

China Export Ban 18/10/2023

Dominate 70% of graphite mining & 90% of anode value add¹

Source: ¹Benchmark Minerals Intelligence 20/10/23

EU Battery Passport 1/2/2025

QR code database of provenance & CO₂ footprint for all large batteries





Mining in Kazakhstan

- Similar semi-arid land area to West. Aust.
- Mining code based on West. Aust.
- 40% of global uranium supply¹
- 12th in global mining value¹
- 13th largest oil producer¹

Corporate income tax: 20%; mineral royalty: 3.5%;
other taxes: 1.5%

Affordable containerized rail to Europe and China.

Kazakhstan - Regional Infrastructure Advantages



170km by highway to the large city of Karaganda



6km from bitumen road to project



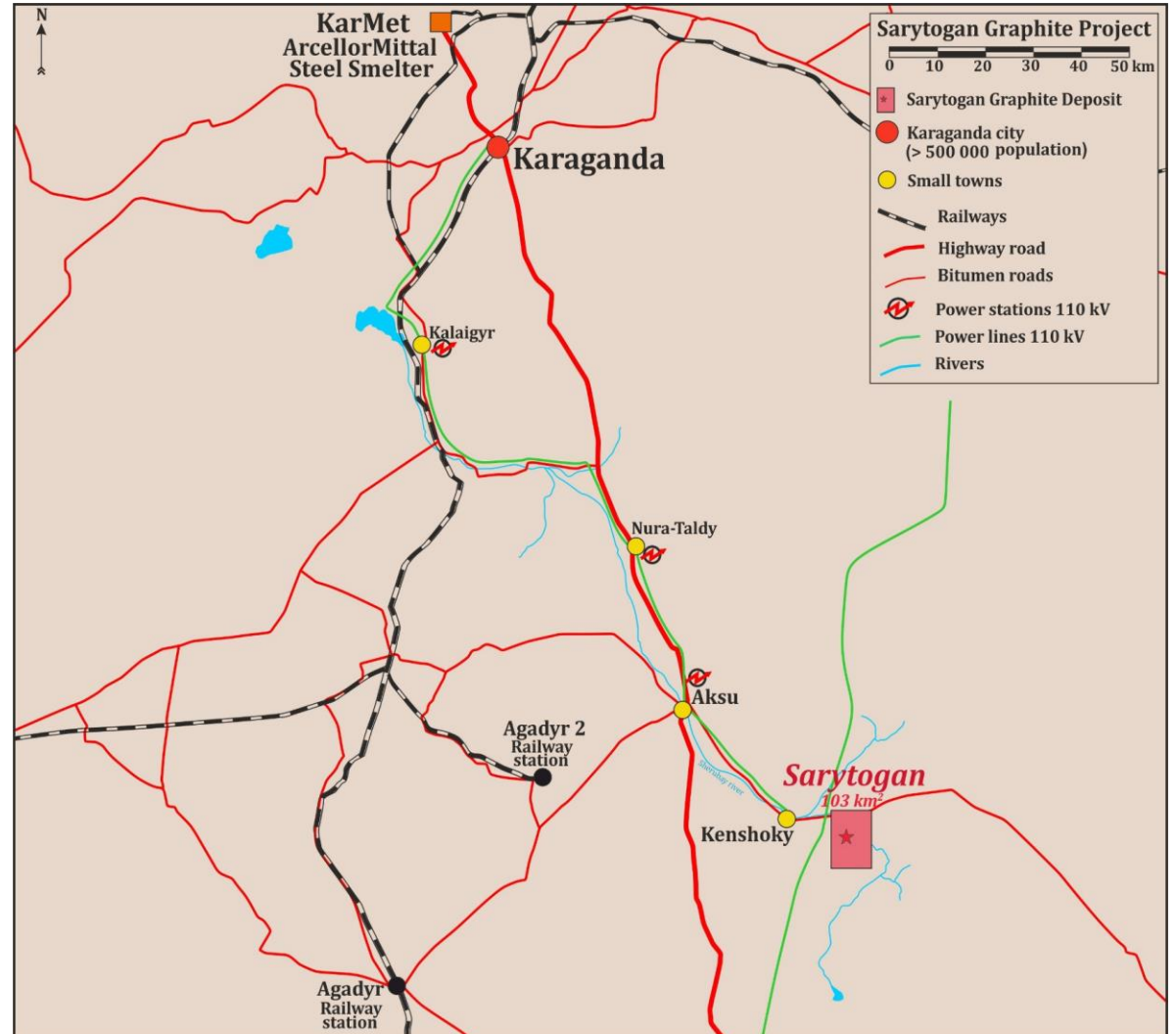
68km from nearest railway station



Sufficient water supply available



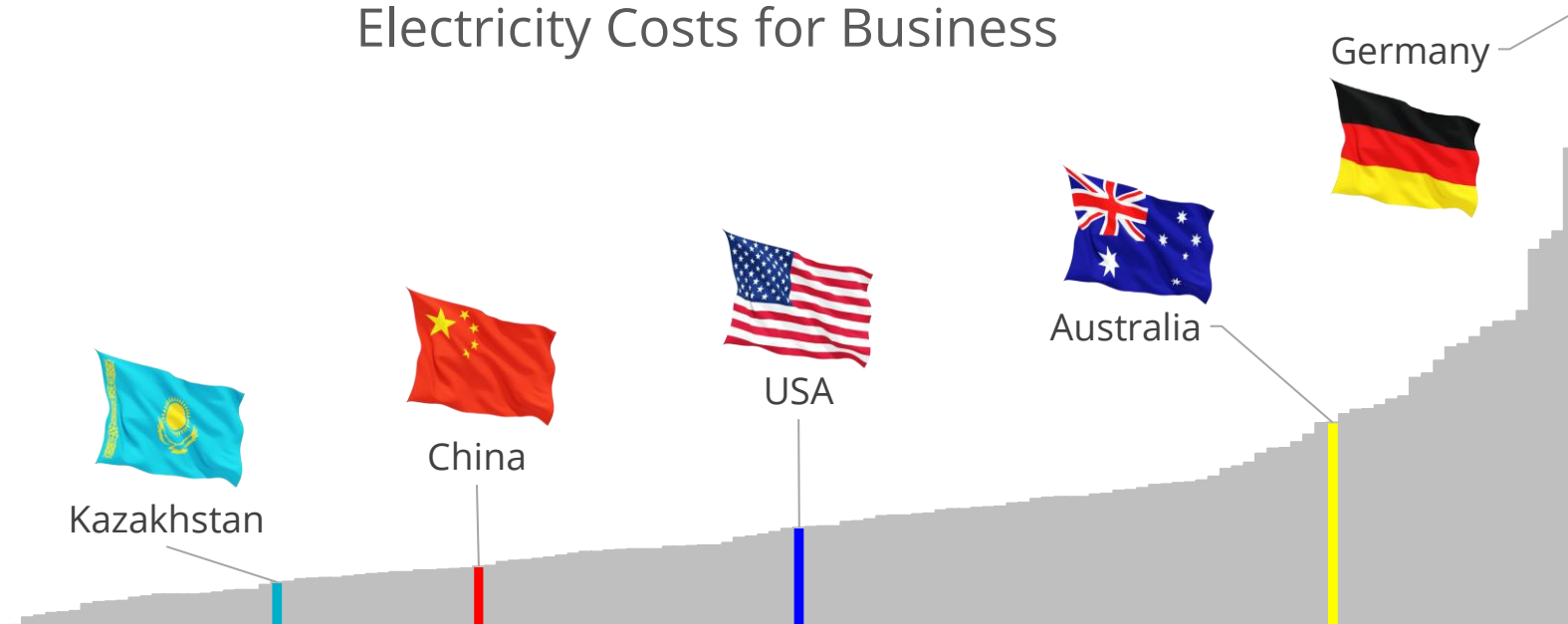
Skilled local workforce



Kazakhstan - Lowest Quartile Power Costs Including Renewables

- Kazakhstan's power cost is in the lowest quartile globally
- 110 kV powerline 2 km from the project (pictured)
- 35 kV powerline 15 km from the project
- 50 MW Solar farm is 100 km from the project (pictured)

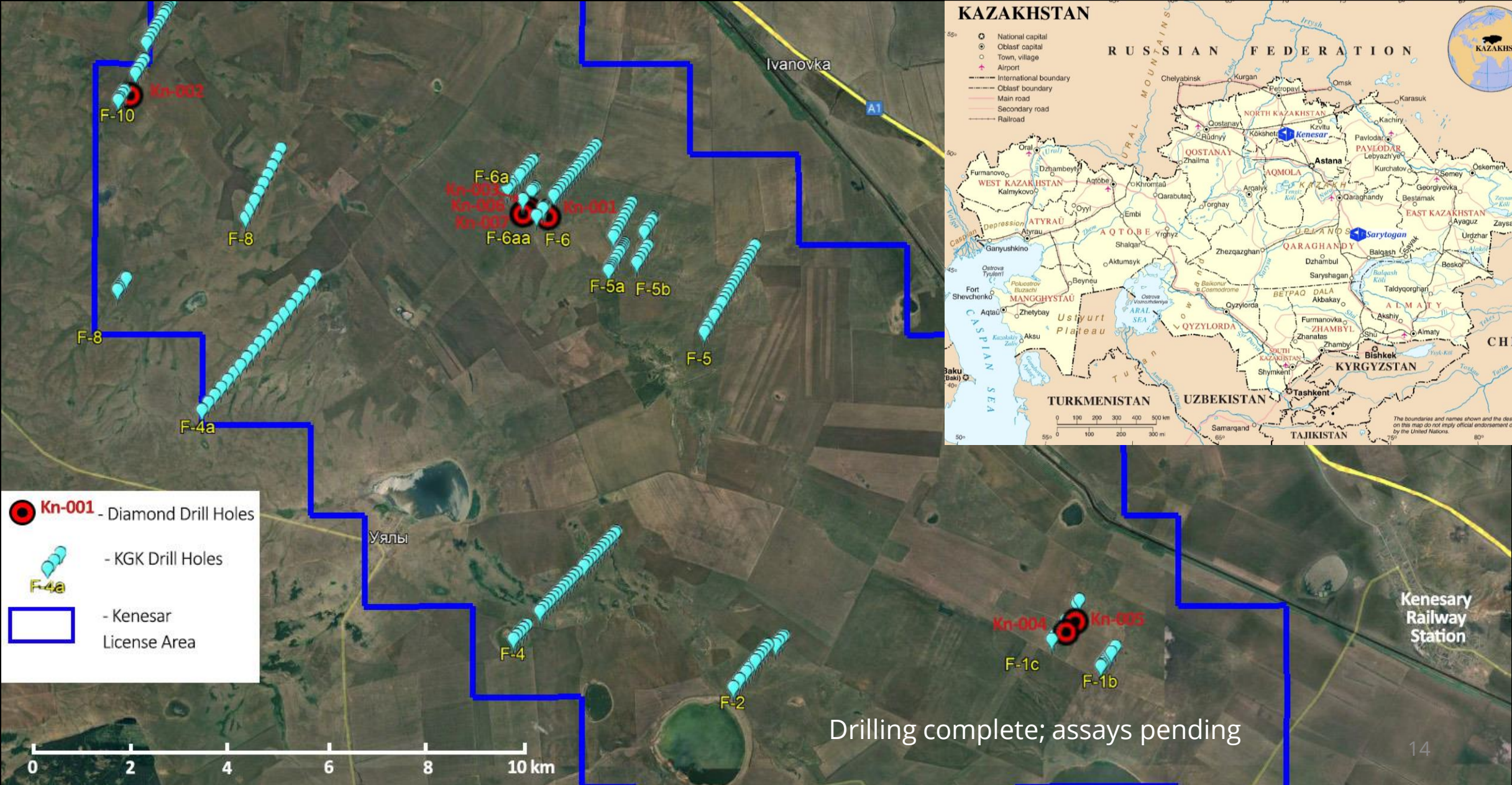
Electricity Costs for Business



133 countries - December 2022 - data source www.globalpetrolprices.com - includes power, distribution and taxes



Kazakhstan - Kenesar Graphite Exploration Project



	2023				2024			
Milestone	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Mineral Resource upgrade	✓							
Land access agreement		✓						
Geotech and hydro drilling			✓					
Bulk concentrate production			✓					
Kenesar maiden drilling results								
Spheroidization tests								
Battery performance tests								
Pre-feasibility study								
Mining lease application								
Marketing discussions								

Capital Structure

Shares on Issue (Undiluted)	147.7M
Escrowed Shares (until July 2024)	48%
Director Interests	36%
Options (25c, 49.5c, 60c, expiry '24, '26, '28)	45.2M
Performance Shares and Perf. Rights	23.1M
Market Capitalisation – Undiluted at 17.5c	\$25.8M
Cash – 30 September 2023	\$6.7M
Enterprise Value	\$19.1M



Stephen Penrose *Non-Executive Chairman, LLB, J.D.,*

Lawyer and Managing Partner of Tottle Partners, specialising in corporate and commercial litigation.



Sean Gregory *Managing Director, B.Sc.(Hons), MBA*

Geologist and Mining Executive with more than 20 years' experience in minerals exploration, development and mining in iron ore, lithium, cobalt, nickel, and gold in Western Australia and abroad.



Dr. Waldemar Mueller *Technical Director, PhD, M.AusIMM*

Geologist with more than 40 years' experience in exploration and valuation of mineral resources. He has held leadership positions German, Canadian and Australian companies working on projects in Brazil, Kyrgyzstan, Georgia & Kazakhstan.



Brendan Borg *Non-Executive Director, B.Sc., MSc, M.AusIMM*

Geologist, Hydrogeologist and Environmental Scientist specialising in the battery materials sector with more than 20 years' experience in exploration development and mining.



Ian Hobson *Company Secretary, B.Bus, FCA, Grad. Dip. (Cor. Gov.)*

Fellow Chartered Accountant and Chartered Secretary with more than 30 years' experience in the areas of corporate finance, governance, corporate accounting, company secretarial and restructuring advice.

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Compliance Statement

The information in this report that relates to JORC estimates of Mineral Resources was first published on the ASX on 27/3/23. The information relating to Exploration Results was first reported in ASX Announcements as cross referenced on the relevant slides. These reports are available at www.asx.com.au. The Company confirms that it is not aware of any new information or data that materially affects the information included in relevant market announcements and, in the case of estimates of Mineral Resources, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Persons' findings are presented have not been materially modified from the original market announcements.



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