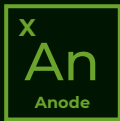
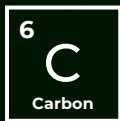


Volt Resources

**An Integrated Battery
Material Producer**

Critical Minerals | Battery Materials

ASX: VRC



Important Notices

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Competent Person statement

The information in this announcement which relates to exploration results is based upon details compiled from the available documentation by Mrs Christine Standing, who is a Member of the of the Australian Institute of Geoscientists. Mrs Christine Standing is an employee of Optiro Pty Ltd and has sufficient experience which is relevant to the style of mineralisation and the deposit under consideration, and to the activity which she is undertaking to qualify as a Competent Person as defined in the 2012 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (the JORC Code). Mrs Christine Standing confirms that the information included in this announcement in respect of the mineralisation at Jadar North, Ljig and Petlovaca is an accurate representation of the available data and studies.

Where information in this presentation relates to exploration results, mineral resources, ore reserves, production targets or forecast financial information that has previously been disclosed to the ASX, reference is made to the applicable ASX announcements where such information was first disclosed. Volt confirms that it is not aware of any new information or data that materially affects the information included in those announcements.

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Corporate Overview



Capital Structure. Listed on ASX

ASX Code

VRC

Major Shareholders

Major Shareholders

14.59% Kabunga Holdings Pty Ltd
4.35% PR & E Notman
1.90% Bosswat Pty Ltd
2.55% D Virgara
2.38% 10 BOLIVIANOS PTY LTD

Others

76.71% Others

Key Executive Team

Executive Chairman
Managing Director & CEO
Non-Executive-Director
Business Development Europe
Company Secretary

Asimwe Kabunga
Prashant Chintawar
Jack Fazio
Michael Prassas
Robbie Featherby

Our Strategy



Capitalize on the opportunities presented by the implementation of the Inflation Reduction Act in the United States/**North America** and the EU Critical Raw Material Act in **Europe**

Use two high-quality **graphite assets** to become an “integrated” **natural graphite anode producer** – a critical material used in lithium-ion batteries

- ◆ **Zavalievsky Graphite LLC (ZG)** is the only significant operational graphite mine and processing plant in the European catchment area, and
- ◆ **Bunyu graphite project in Tanzania** is one of the world’s biggest undeveloped greenfield natural graphite projects.

Provide highest purity (long life) and one of the lowest carbon supply chain solutions for a critical raw material.

Localized & de-risked supply chain solution, resulting in a true win-win situation for all stakeholders.

Volt Resources investment case



1

Clear strategy: Focus on graphite and natural graphite anode due to large addressable market, strong USP (backward integration), and market tailwinds (demand vs supply gap, double digit market growth).

2

Proven graphite producer with two assets: Zavalievksy Graphite, a producing mine in Europe; and Bunyu, one of the world's largest graphite deposits in Tanzania.

3

Two binding offtakes for Bunyu graphite with industry leaders; commercial and technology partnerships for natural graphite anode secured and growing.

4

Entrepreneurial global team with Fortune-100 experience and a track record of battery material, mining, and specialty chemical business management, creation, and scale-up.

**Upstream Business
(Graphite Mining)**

+

**Downstream Business
(Natural Graphite Anode)**

Volt is a proven graphite producer with a mine in operation since 1934

- Zavalievsky Graphite (ZG) is 65 km from Moldova border and 300 km from conflict zone
- Our assets and personnel are safe.
- Large portion of graphite is fine mesh suitable for lithium-ion batteries
- Flotation + Concentration + Purification to 99.5% done at mine
- Permits for subsoil use (mining licence equivalent) valid until November 2035.
- Excellent transport infrastructure covering road, rail, river and sea freight combined with reliable grid power.
- **Resources:** 22.9 million ton at a grade of 6.8% carbon – subset of overall deposit based on south-east zone only¹ (Non-JORC and approximately 20% of Russian code resources)
- **Production :** average 7,300 TPA graphite concentrate from 2017 to 2021. 1980s – 60 kTPA

Upcoming Milestones

- Increase product purity to 99.95+%
- Become a supplier to lithium-ion battery cell makers based in Europe and North America

Project KPIs

- **Ownership**
70% Volt, 30% Ukraine entities
- **Long-life:** producing graphite mine that has been in operation for over 89 years, with exploration upside

¹ Refer to ASX announcement dated 18 October 2021 titled "Expansion potential for Zavalievsky Graphite Supported by Graphite Mineralisation Estimate"



Zavalievsky Graphite Operation



2023 Operation Highlights

- 1,015 tonnes of graphite products were produced in April & May 2023.
- The Zavalievsky Graphite business won a grant from the European Union's Horizon Research and Innovation funding programme for a graphite anode development project called "GR4FITE3". The consortium of industry experts will receive up to €5 million in grant funding over the next four years of which the Zavalievsky Graphite allocation will be up to €600,000
- Zavalievsky Graphite was identified as a strategic asset by EIT (European Institute of Technology) and ERMA (European Raw Materials Association) [read here](#)





**wholly owned subsidiary of
Volt Resources Limited, Australia**

Tanzania Bunyu Graphite

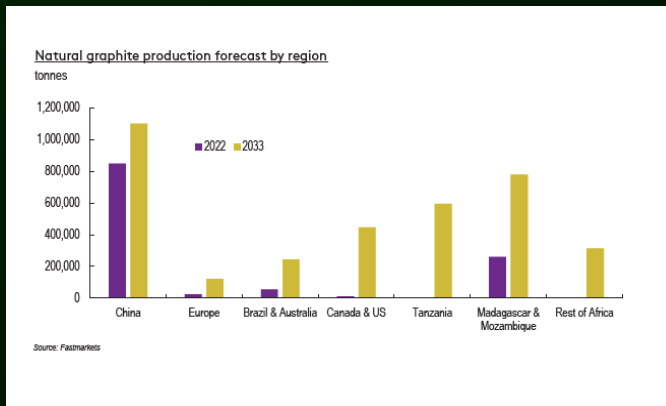
Enough to power 2.8 million EVs per year

Highlights

- One of the largest graphite deposits in the world. 100% owned; Greenfield project; Bunyu is the largest JORC Mineral resource in Tanzania
- Only 140 km from Mtwara port
- Two stage development strategy with Stage 1 significantly de-risking the development of Stage 2 Expansion Project
- Stage 1 to produce 24,780 tpa flake graphite (@ 6.26% TGC feed grade)² and Stage 2 expansion increases annual production to 170,000 tpa flake graphite.
- Environmental Impact Assessment Certificate and Mining Licences received covering both Stage 1 and 2
- Africa is set to become graphite production leader

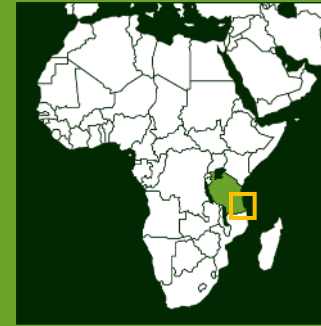
Upcoming Milestones

- Subject to financing, Stage 1 start of production in 2025
- Stage 2 graphite production is enough for about 2.8 million EVs per year



¹ Refer to ASX announcement "Pre-feasibility Study Completed" 15/12/2016

² Refer to ASX announcement titled "Positive Stage 1 Feasibility Study Bunyu Graphite Project" 31/07/2018



Tanzania

Indian Ocean

Lindi

Sealed Roads

North Bunyu 1

Deep Water Port

Mtwara

VGT Project Area

Masai

South Bunyu 2&3

Newala

Mineral Resource – 461Mt
22.6 Million tonnes of contained graphite
Ore Reserve – 127Mt
5.59 Million tonnes of contained graphite



50 km

Mozambique

Bunyu Natural Flake Graphite Product Specifications

Stage 1 Bunyu natural graphite typical product specification

- Flexibility to produce higher TGC grade products if required
- Bunyu natural graphite product suitable for a range of end use applications including battery anode material, refractories, foils, gaskets, dry lubricants, graphene and other applications
- Planned two stage development and large-scale resource provides for multi-decade supply of graphite products



Concentrate Typical Quality

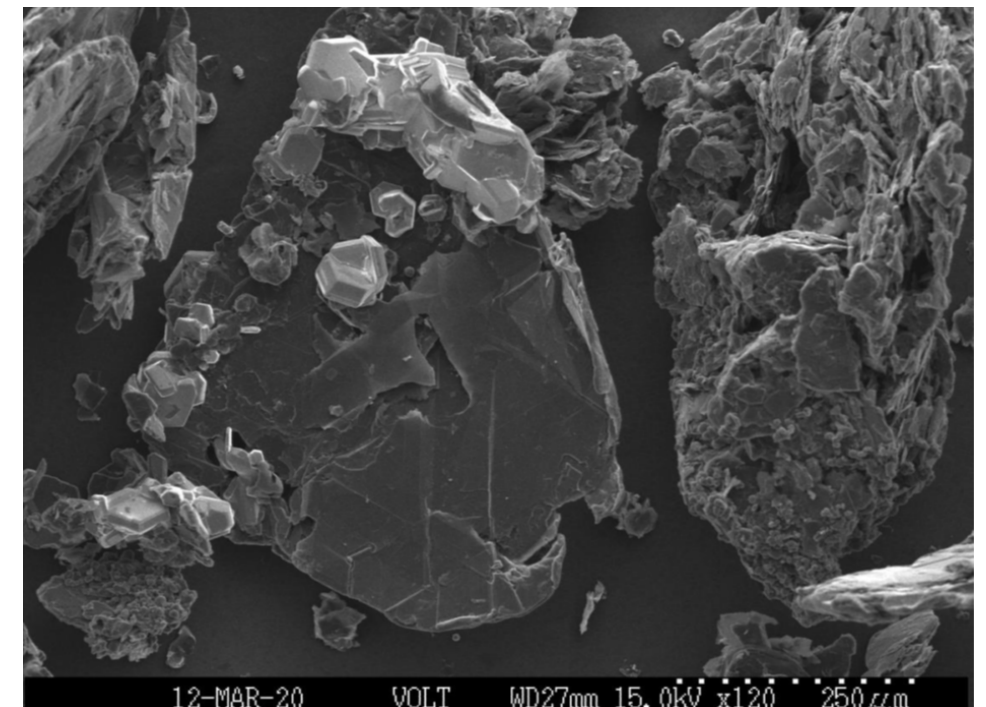
Size (micron)	Size (#)	% Distribution	Type
+300	+50	12	54% Coarse
+180	+80	27	
+150	+100	15	
-150	-100	46	46% Fine

Impurities (Indicative)

Analyte	Unit	Indicative
Fe	%	0.28
Ca	%	0.25
S	%	0.02
SiO ₂	%	3.1
Al	%	0.64
Cu	ppm	15
Zn	ppm	15
V	ppm	50

Bunyu Graphite is Ideal for Li Ion Battery Anode

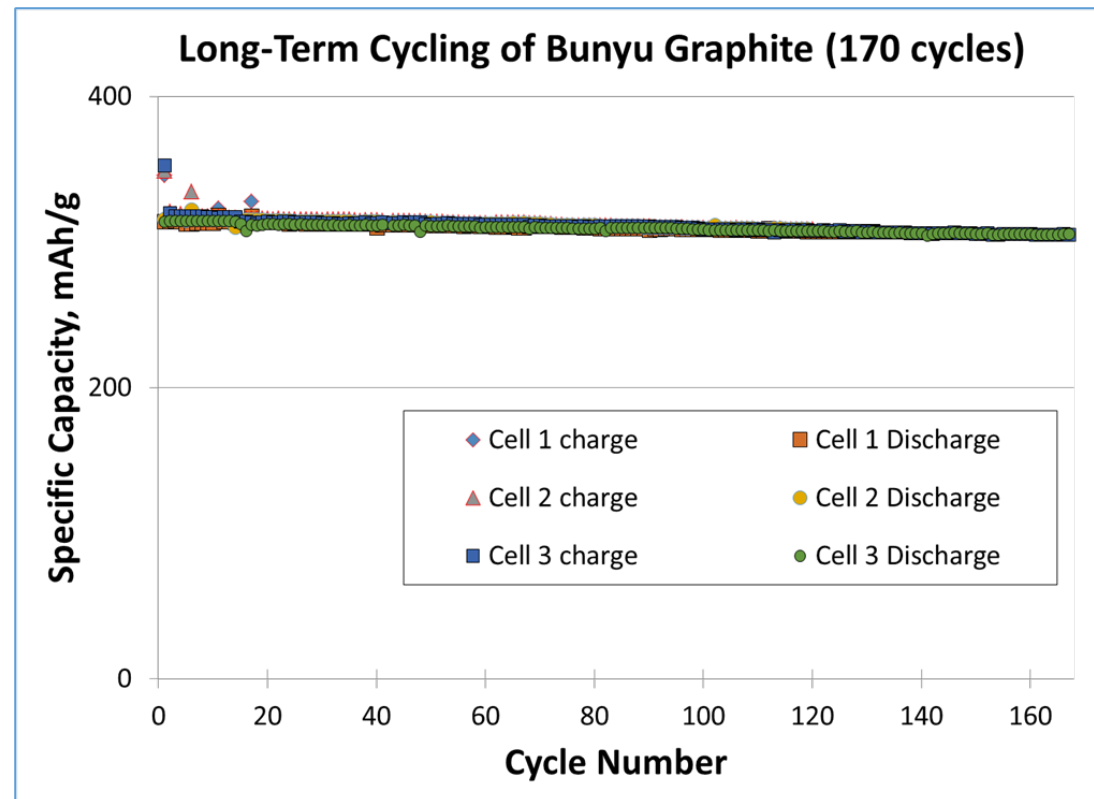
- The Scanning Electron Microscopy image is of the concentrate-purity Bunyu graphite.
- It shows pale inclusions attributed to gangue, clearly located either on the surface of larger flakes or on edge planes.
- Typically, impurities are embedded as gangue in between flake layers of classic graphite. However, Bunyu flakes are unique in their impurity topography, allowing for easier removal of impurities and therefore lowered processing costs.



Bunyu Graphite is ideal for Li Ion Battery Anode

High Purity Graphite leading to High Purity Anode and Longer Life Battery

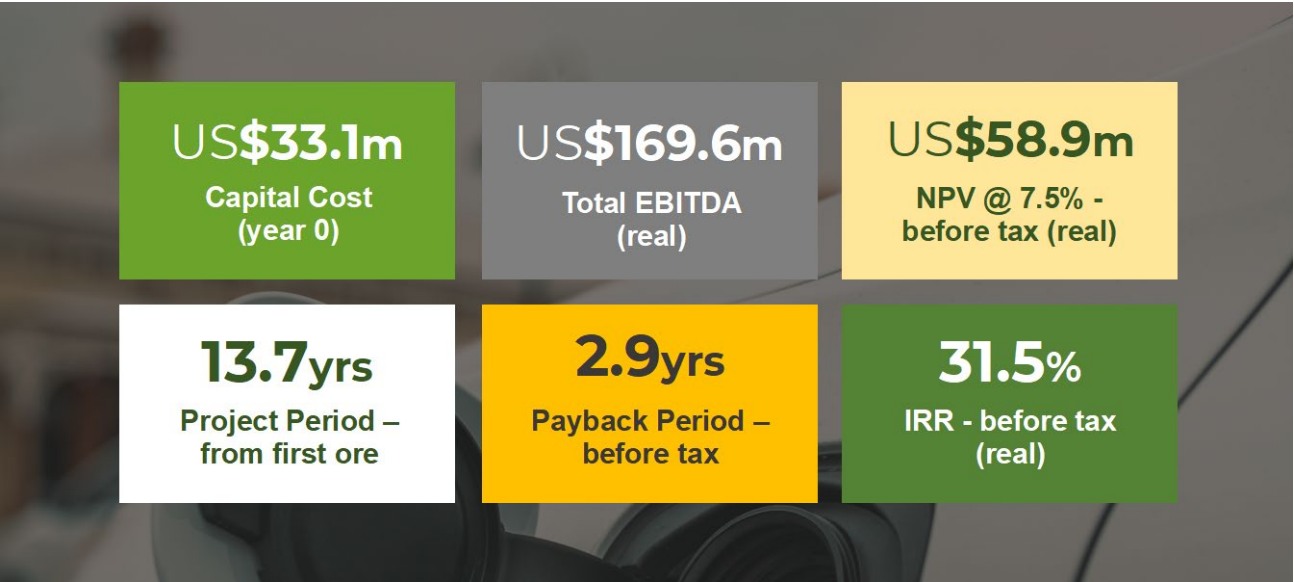
Supplier A, Natural Graphite Anode	Fe	30	ppm
Supplier B, Natural Graphite Anode	Fe + other	40	ppm
Supplier C, Natural Graphite Anode	Fe + Ni	35	ppm
Bunyu Natural Graphite Anode	Fe	7	ppm
	Fe + Ni + Co	17	ppm
	S	63	ppm



Lithium-ion battery life >1,175 cycles is possible with Bunyu graphite
(Exceeds USABC target of 1,000 cycles)

BUNYU has Strong Project Economics – Stage 1

feasibility study completed in 2023



Stage 1 Project	Unit	Financial Performance
		2023
Project Period - from first ore	years	13.7
Total Net Revenue	US\$ M, real	433.2
Total EBITDA	US\$ M, real	169.6
IRR - before tax	%, real	31.5
IRR – after tax*	%, real	23.6
NPV @ 7.5% - before tax	US\$ M, real	58.9
NPV @ 7.5% - after tax*	US\$ M, real	36.4
Capital Cost (year 0)	US\$ M, real	33.1
Payback period, before tax – from first ore	years	2.9
Payback Period - after tax - from first ore	years	3.9

* Tanzanian corporate income tax rate of 30% has been applied to the project plus minimum tax (MTA) of 0.5% of sales revenue in loss years. Payments of corporate tax on profits are estimated to commence from year 1 of production, after utilising the benefits of carried forward income tax losses.

¹ A discount rate of 10% was used to determine NPV for the 2018 study.

Volt will need about USD 40 million financing for Stage 1

Stage 1 Bunyu Graphite sold under Binding Offtakes

Graphex Group Limited

Binding offtake agreement signed with global battery anode material producer Graphex Group Limited subsidiary, Graphex Michigan 1 LLC. Graphex Group is listed on Hong Kong Stock Exchange and the NYSE.

- ◆ 7,500-10,000 tpa fine flake graphite for five years
- ◆ An option to extend a further five years
- ◆ All Stage 1 fine graphite product is sold

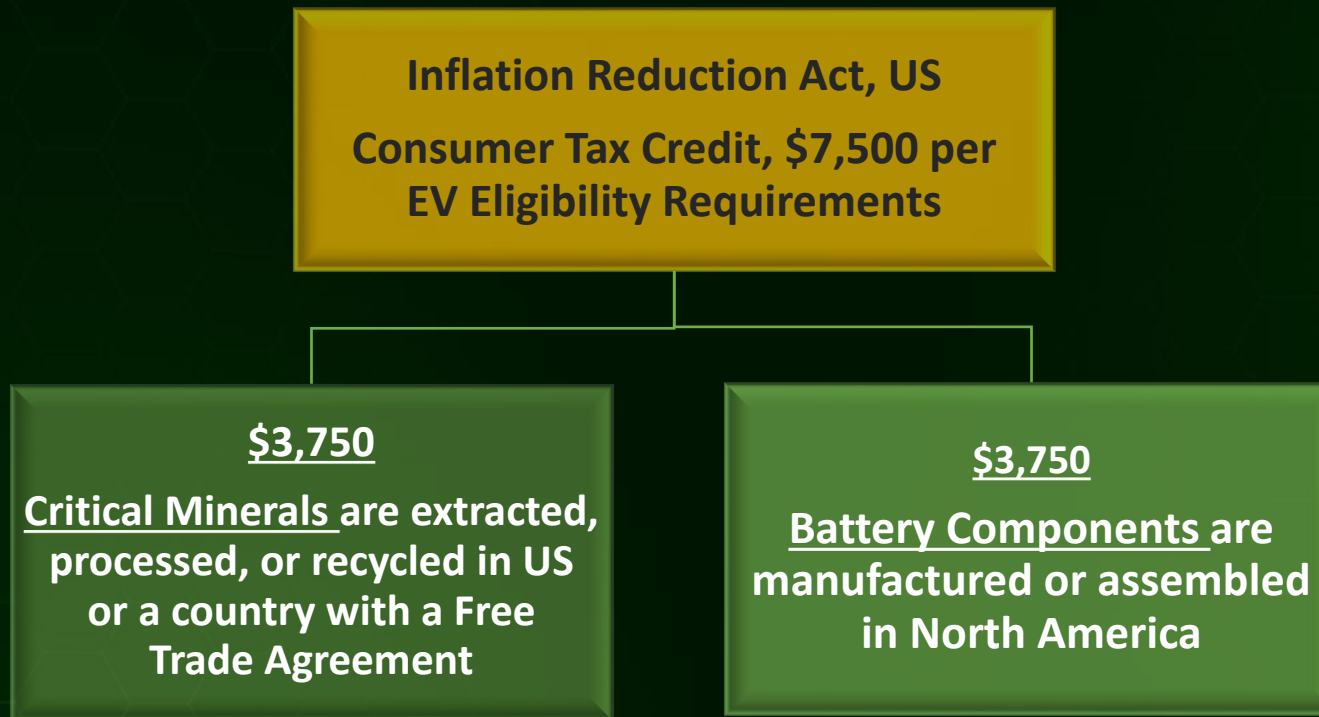
Qingdao Baixing Graphite Company Ltd

Binding offtake agreement signed with established producer of graphite products

- ◆ 12,000-90,000 tpa coarse flake graphite for five years
- ◆ An option to extend a further five years
- ◆ All Stage 1 coarse graphite product is sold

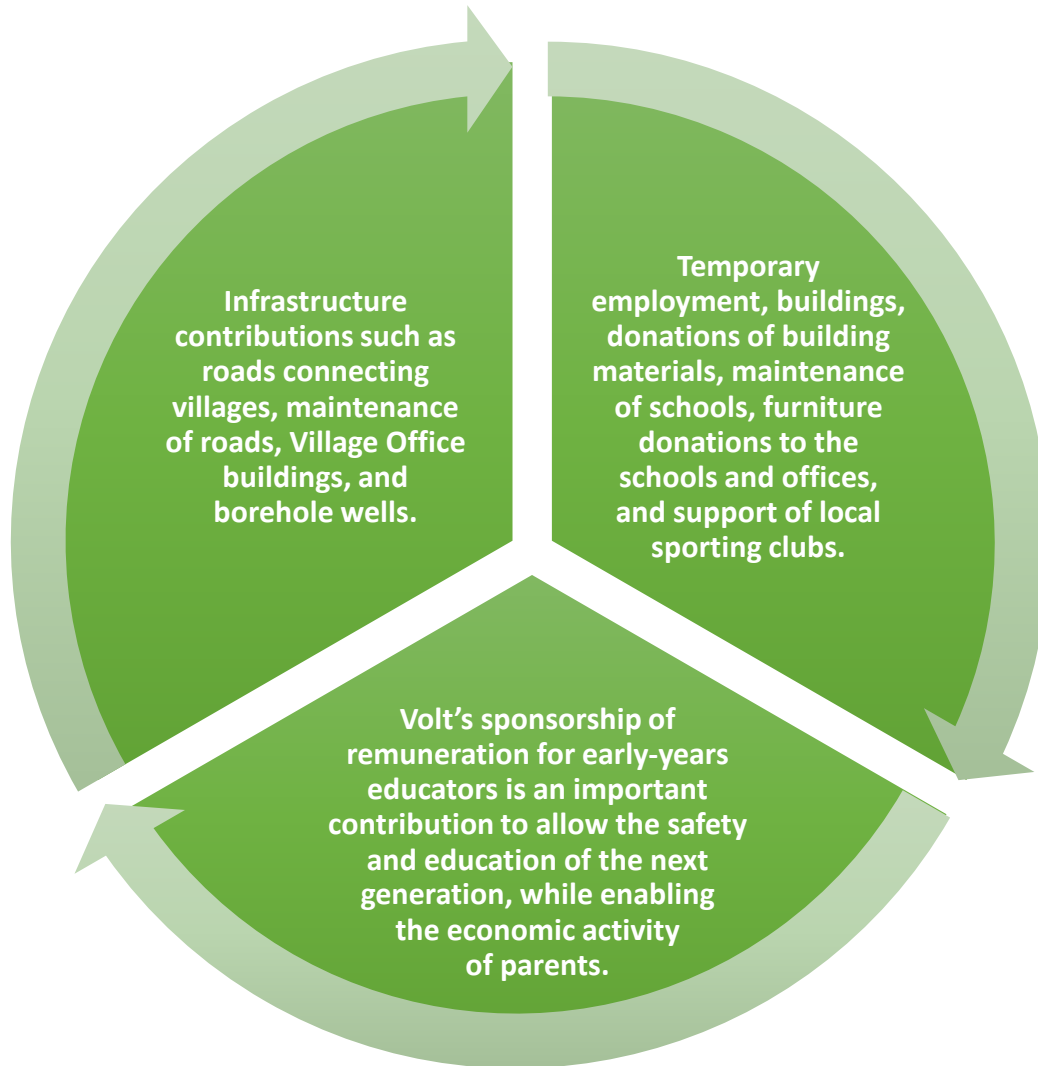


Tanzania & Ukraine Graphite Projects are IRA Compliant



1. To get Inflation Reduction Act benefits, from 2024, battery components can not be manufactured or assembled in a Foreign Entity of Concern
2. From 2025, Critical Minerals can not be extracted, processed, or recycled in a Foreign Entity of Concern
3. Foreign Entity of Concern – China, Russia, N Korea, & Iran
4. The US Geological Survey reaffirmed graphite as a Critical Mineral in its 2021 Review and Revision of the US Critical Minerals List, ranking graphite higher than manganese, lithium, nickel, and copper in overall supply risk

ESG – Community Engagement in Tanzania



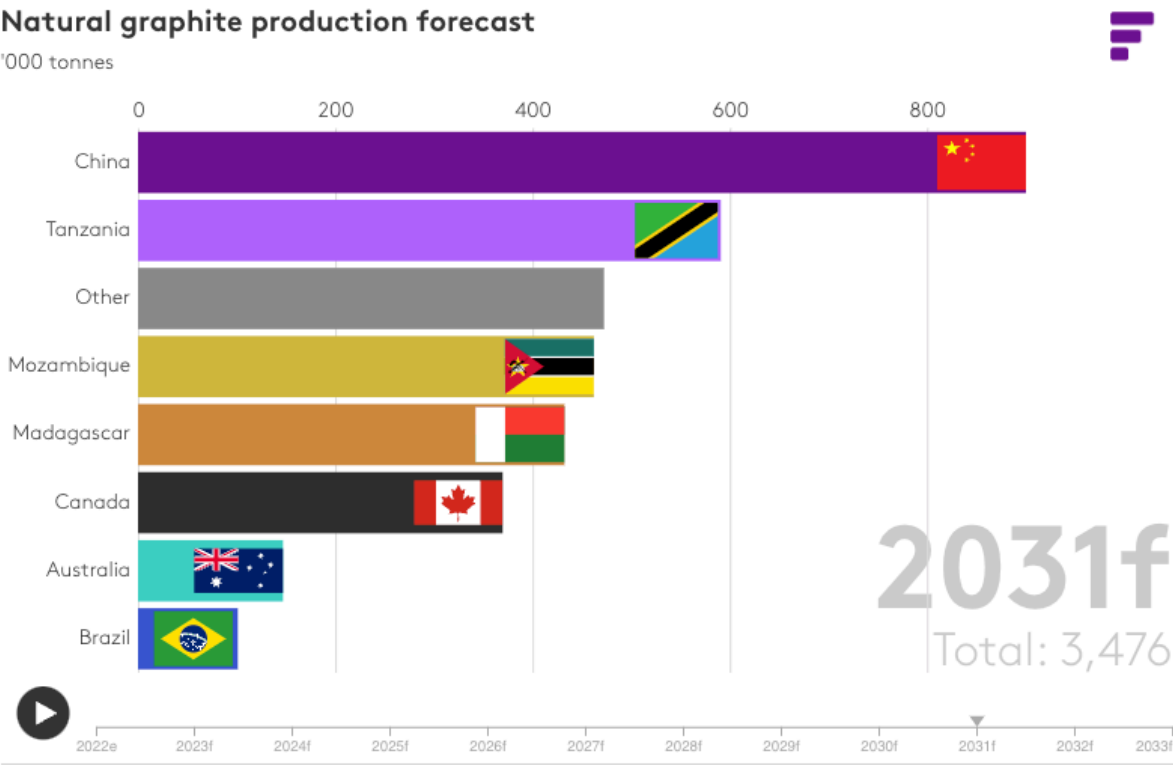
**Upstream Business
(Graphite Mining)**

+

**Downstream Business
(Natural Graphite Anode)**

Graphite Forecasts

Tanzania forecast to be key producer

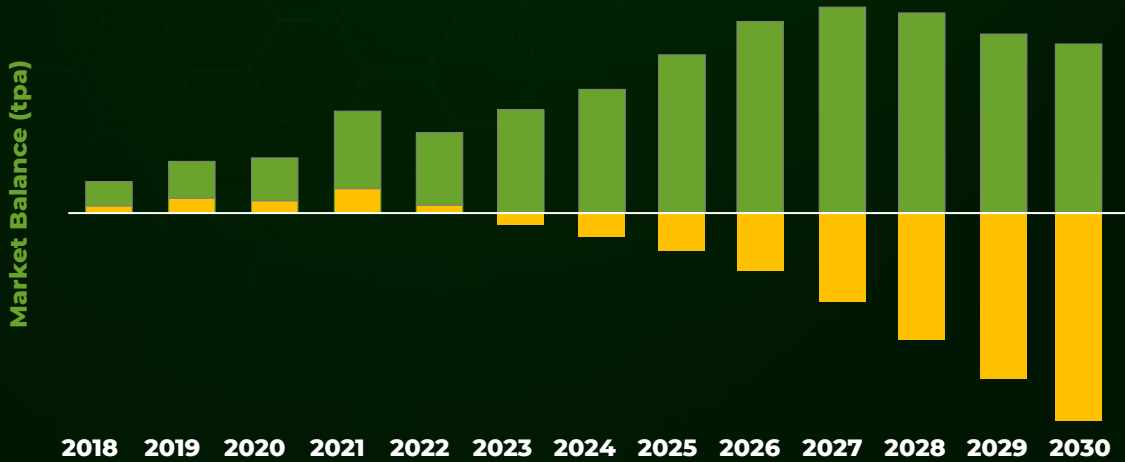


Source: [Fastmarkets](#) • Flags courtesy of Wikipedia

With natural graphite anode to dominate

Synthetic Graphite Anode: 2022–2030		Natural Graphite Anode: 2022–2030	
Supply Growth	150%	Supply Growth	95%
Demand Growth	170%	Demand Growth	415%

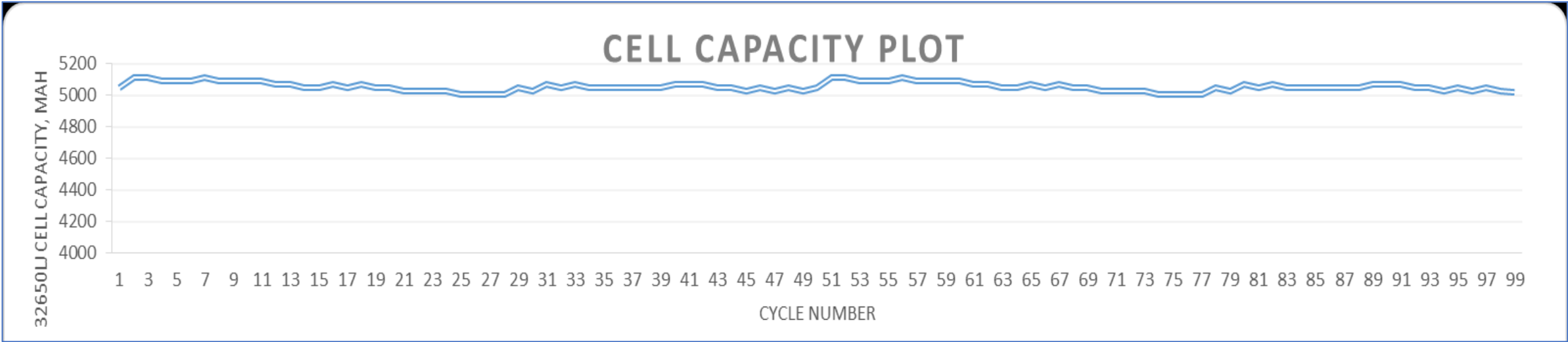
Synthetic Graphite Anode
Natural Graphite Anode



Source: Benchmark Mineral Intelligence Q4–2022

Excellent 32650 Full Cell Cycling Results

Volt Natural Graphite Anode (US Produced)

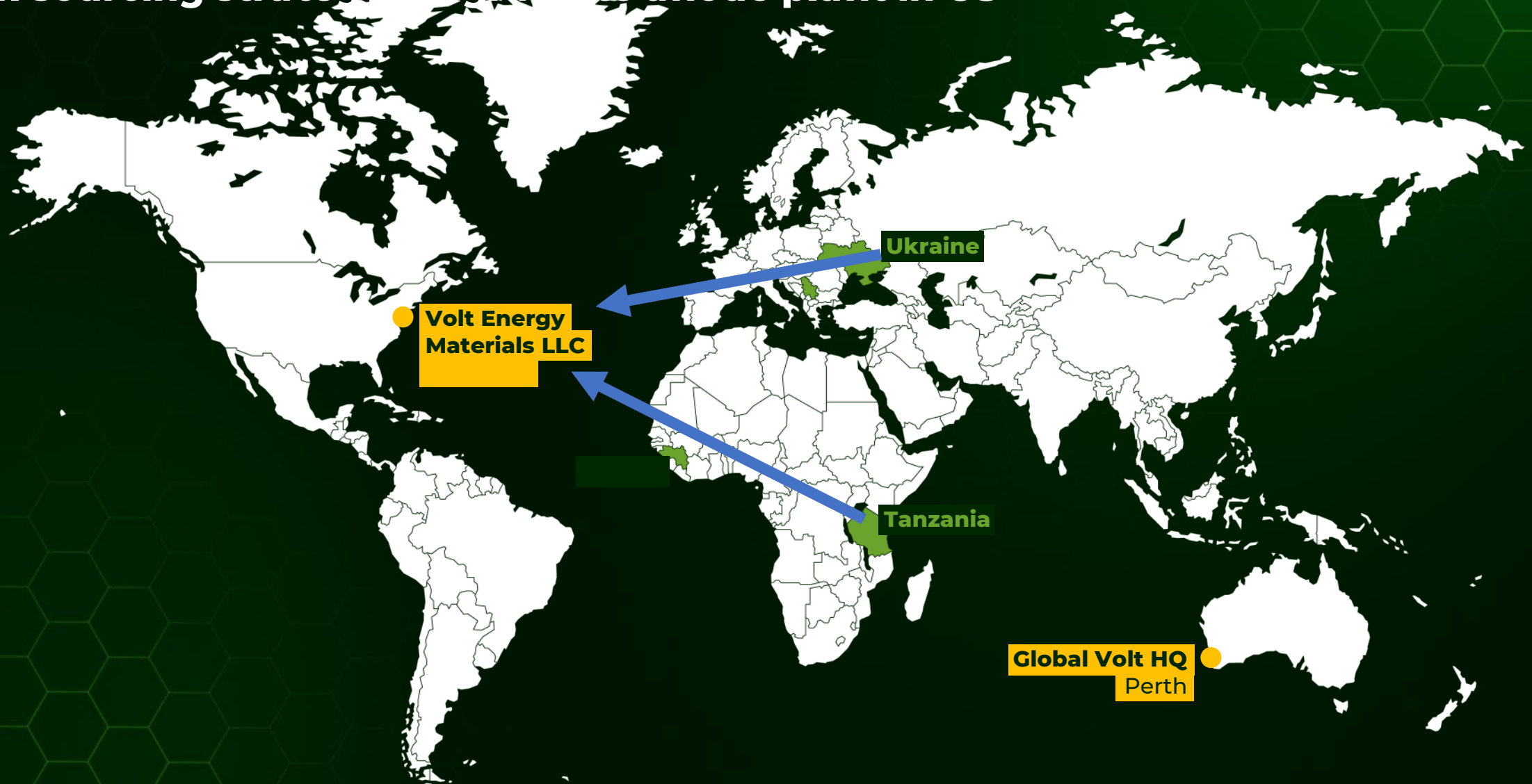


Capacity Loss over 100 Cycles	1.5%
Extrapolated Life of Volt Natural Graphite Anode	1,331 Cycles
EV Target for Cycle Life	1,000 Cycles



Integrated Natural Graphite Anode Producer in US & Europe

Dual sourcing strategy for graphite anode plant in US



US Natural Graphite Anode Plant

Plant Design Study with Worley Ltd

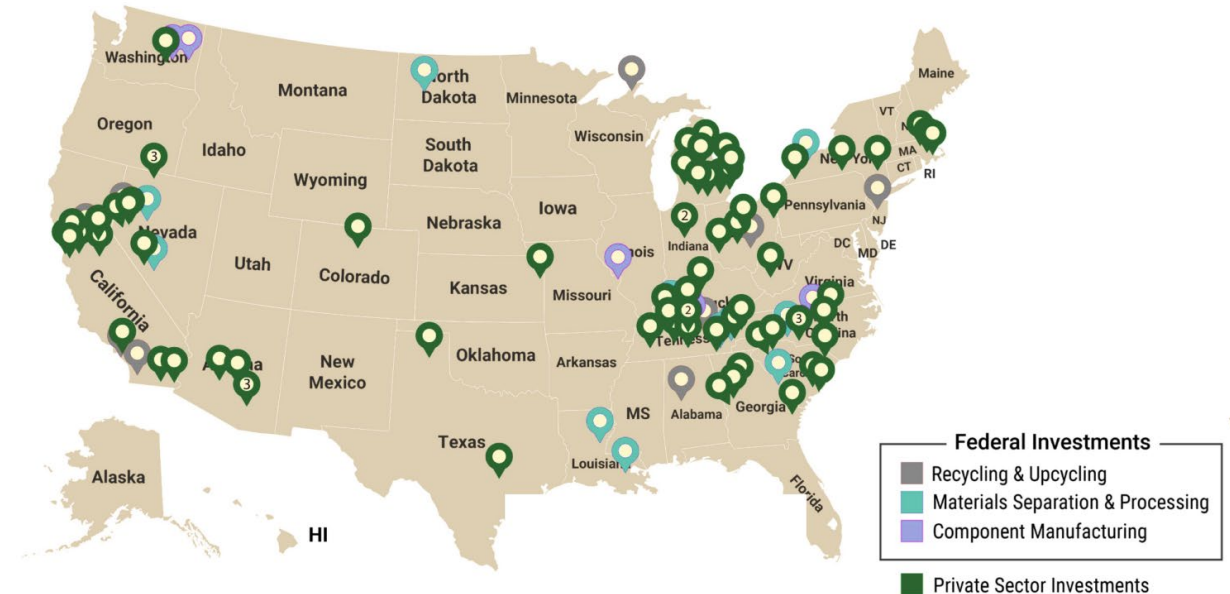
- ◆ 7,500 tonnes per annum expected capacity (125,000 EVs per year)
- ◆ To meet domestic demand, US will need ~980 kTPA graphite anode by 2030



US Natural Graphite Anode Plant

- Evaluated multiple states for plant location
- Site selection criteria
 - Lowest capital and operating cost
 - Access to labour
 - Connectivity via rail, port
 - Renewable or low carbon and low-cost energy
- Identified a 32-acre site in South-East, USA.

New US battery manufacturing and supply chain investments announced since 2021



JDA and MOU with 24M



News January 06, 2020

Kyocera and 24M Develop World's First SemiSolid Lithium-ion Battery System with Improved Safety, Longer Life, and Lower Cost

Plans to Build Full-Scale Mass Production System Following Initial Success with Pilot

FREYR and 24M sign licensing and services agreement for mass production of Li-ion battery cells; Glencore for raw materials

25 December 2020

InsideEVs

Volkswagen Group Acquires 25% Stake In 24M Technologies

24M has just announced that the agreement has been finalized and Volkswagen Group acquired a 25% stake in the company.

19 Jan 2022

MarketBeat

EV Battery Maker Freyr Set For Major Global Expansion

... Massachusetts-based 24M Technologies and Volkswagen (OTCMKTS:VWAGY) to ... lithium-ion EV batteries utilizing 24M's SemiSolid platform.

[https://www.businesswire.com/news/home/2022/01/18/24M-T...](https://www.businesswire.com/news/home/2022/01/18/24M-Technologies-Finalizes-Deal-With-Volkswagen-Group-to)

24M Technologies Finalizes Deal With Volkswagen Group to

18 Jan 2022 — VWAG acquired a 25% stake in 24M and will establish a wholly owned subsidiary that will, in cooperation with 24M, develop a SemiSolid™ battery ...

TECHNOLOGY

Fujifilm invests \$20m more into U.S. developer of semisolid batteries

Investment in Volkswagen-backed 24M includes licensing deal

Breaking News

24M and Volt sign a graphite supply MOU

27 October 2022

Volt signs an MOU with 24M Technologies to collaborate & qualify Volt's graphite for anode and/or cathode use in 24M's SemiSolid™ manufacturing platform.

24M to evaluate a potential investment into Volt Energy Materials LLC.



- MoU with 24M provides a pathway for Volt to supply Graphite Anode to 24M licencees such as Volkswagen, Freyr, Kyocera, Fujifilm
- 24M to promote Volt as the preferred supplier for anode and/or cathode additive products to 24M's licensees

Summary



VOLT IS AN ESTABLISHED GRAPHITE PRODUCER

- ◆ Operational mine in Europe (operating for nearly 90 years since 1934)
- ◆ One of the world's largest development ready graphite projects in Tanzania
 - Enough graphite resources to power 2.8 M electric vehicles per year for more than 100 years. Strong project economics.
 - Stage 1 start of production expected in 2025

EMERGING GRAPHITE ANODE MATERIAL PRODUCER

- ◆ About 7,500 TPA natural graphite anode material plant in US
 - Estimated start of production in 2026

STRONG TEAM AND OFFTAKES/STRATEGIC PARTNERSHIPS IN PLACE

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