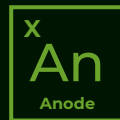
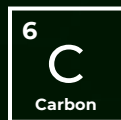


Volt Resources

An Integrated Battery Material Producer

Critical Minerals | Battery Materials
October 2023

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
4.90% PR & E Notman
2.81% D Virgara
2.38% 10 BOLIVIANOS PTY LTD
1.90% Bosswat Pty Ltd

Others

76.71% Others

Key Executive Team

Executive Chairman

Asimwe Kabunga

Managing Director & CEO

Prashant Chintawar "PC"

Non-Executive-Director

Jack Fazio

Business Development Europe

Michael Prassas

Company Secretary

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, Government policies).

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.

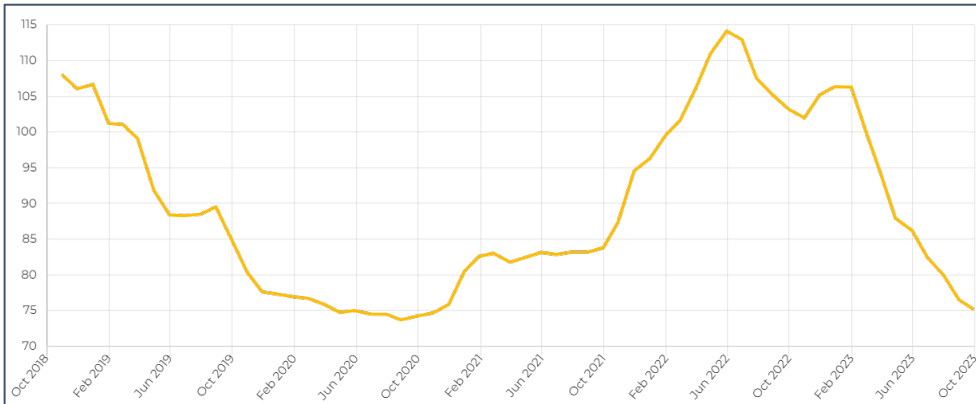
3

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.

Graphite Poised for next bull market



- **Graphite price down 29% in 2023, however the fundamentals of graphite demand vs supply haven't changed and remain supportive**
- **While China (not our focus market) is likely to be dominated by synthetic graphite, in NA and EU markets (our focus) natural graphite will dominate**
- **There is no substitute for graphite!**

Graphite Demand Vs Supply

Synthetic Graphite Anode: 2022-2030

Supply Growth
150%

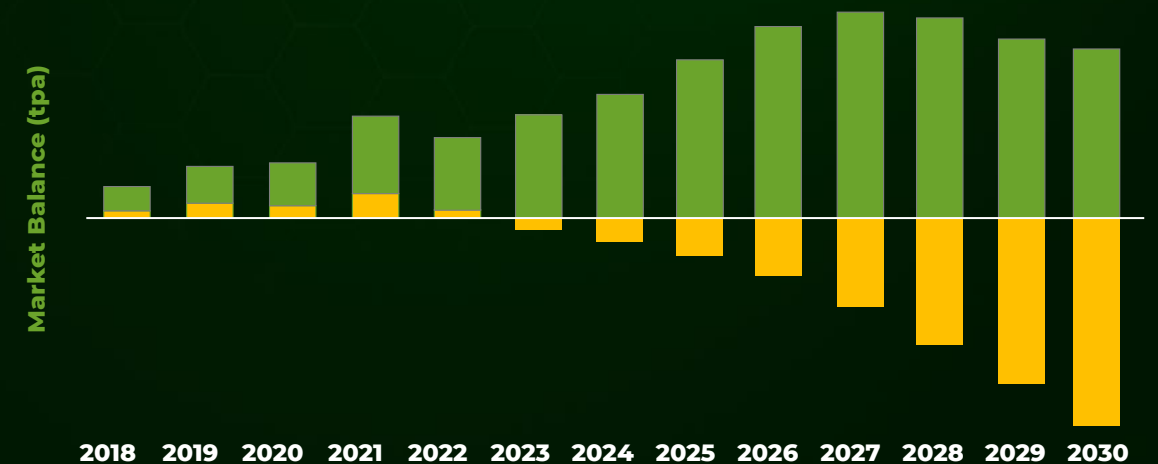
Demand Growth
170%

Natural Graphite Anode: 2022-2030

Supply Growth
95%

Demand Growth
415%

■ Synthetic Graphite Anode
■ Natural Graphite Anode



Volt

=

Natural Graphite Anode

+

Bunyu + ZG

**Downstream Business
(Natural Graphite Anode)**

+

**Upstream Business
(Graphite Mining)**

Natural Graphite Anode Business



✓

• Signed Limited Scope Exclusive Manufacturing Partnership Agreement with American Energy Technologies Company

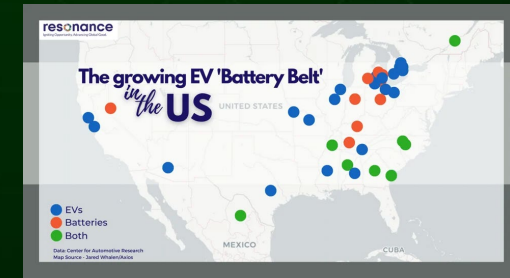


✓

• Completed tentative site selection (33-acre site in US) and defined plant size (7,500 tpa)

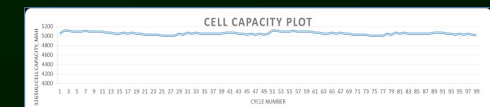
✓

• Filed for a patent on new graphite purification process



✓

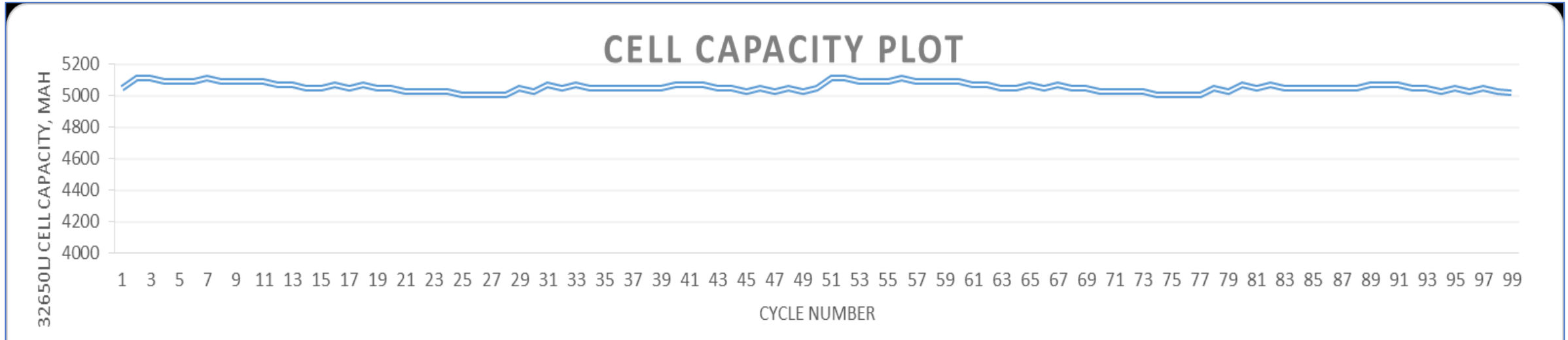
• Proved superiority of our product for EV applications



• Discussion underway for an offtake agreement with a US battery producer (in addition to agreement with 24M)

Excellent 32650 Full Cell Cycling Results

Volt Natural Graphite Anode (US Produced)

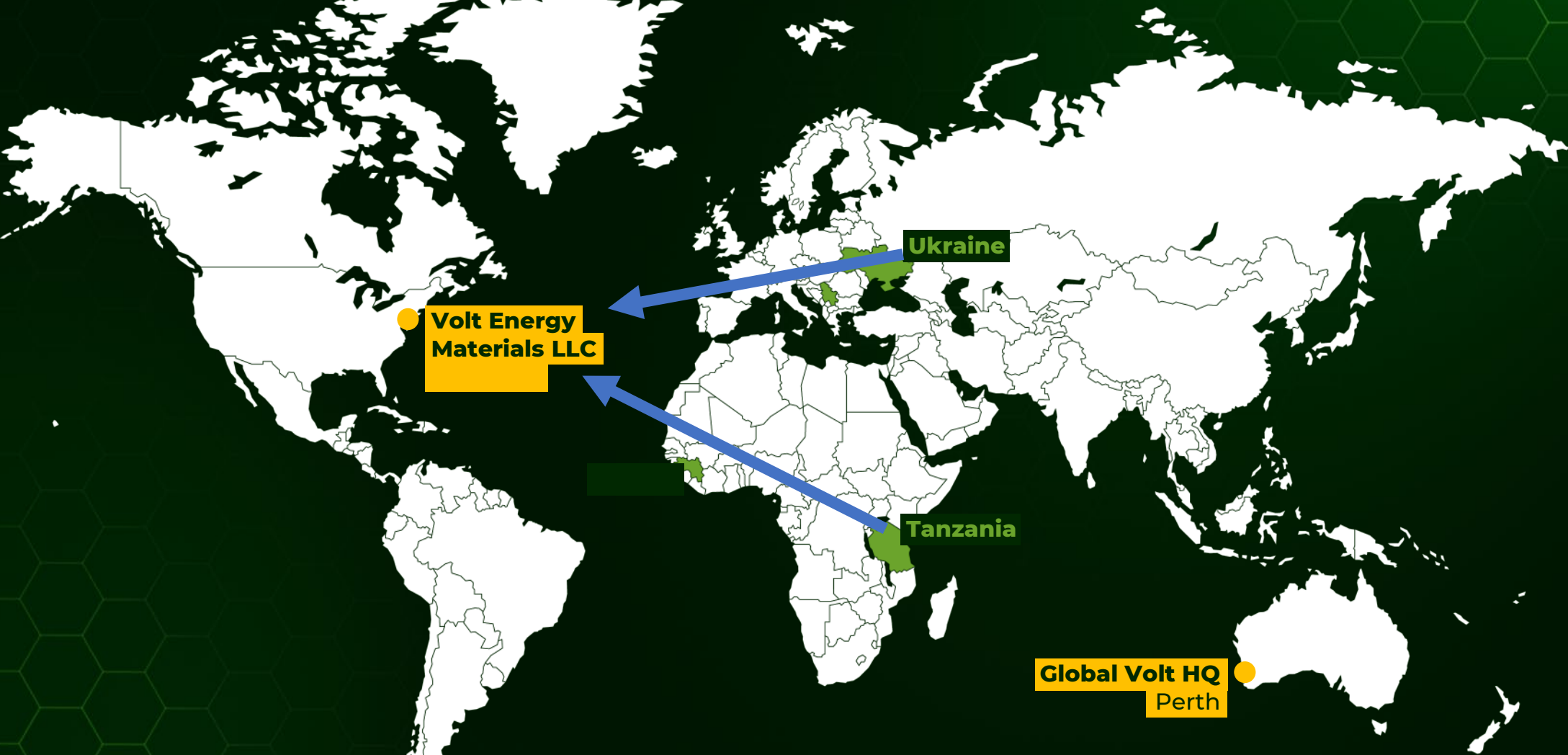


Capacity Loss over 100 Cycles	1.5%
Extrapolated Life of Volt Natural Graphite Anode	1,331 Cycles
EV Target for Cycle Life	1,000 Cycles



Integrated Natural Graphite Anode Producer in US & Europe

Dual sourcing strategy for graphite anode plant in US



**Volt Energy
Materials LLC**

Ukraine

Tanzania

**Global Volt HQ
Perth**

US Natural Graphite Anode Plant

Plant Design Study with Worley Ltd

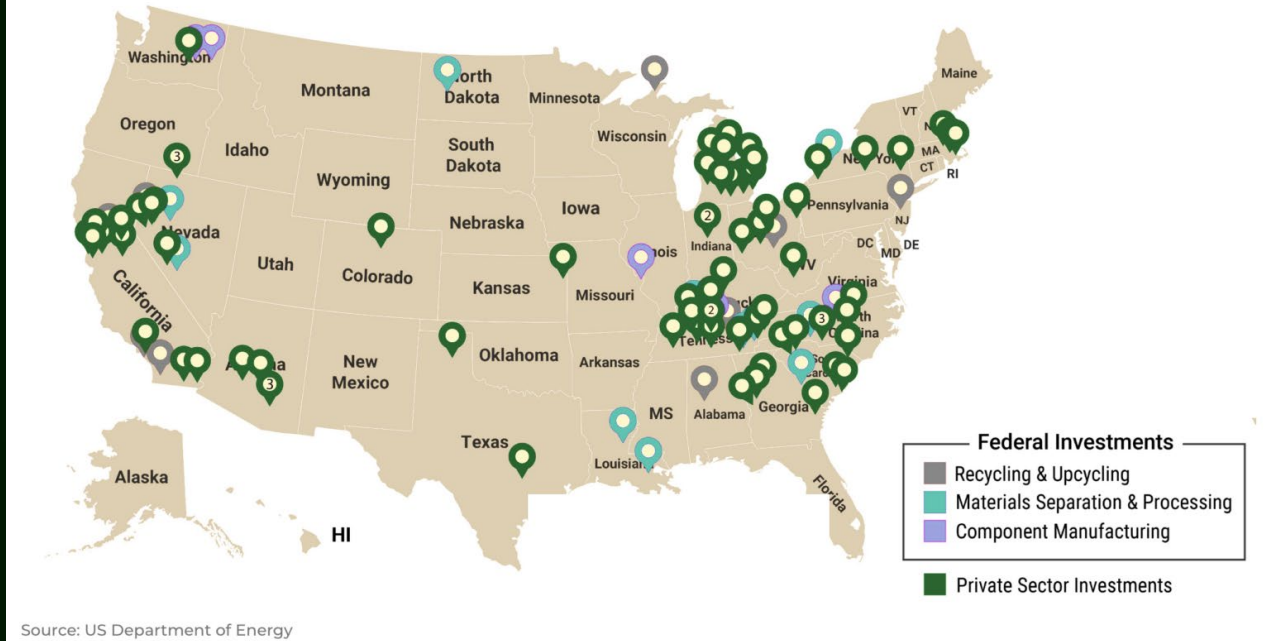
- ◆ 7,500 tonnes per annum expected capacity
- ◆ To meet domestic demand, US will need ~980 kTPA graphite anode by 2030



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
 - access to renewable or low carbon and low-cost energy
- Identified a 33-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/24M-T...](https://www.businesswire.com/news/home/2022/01/18/24M-T...)

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

Robust Pipeline to Secure Non-Dilutive Funds Over 12 Months



Project	Estimated Non-Dilutive Funds
Natural Graphite Anode Development	A\$ 97 million
Natural Graphite Anode Production Plant	
ZG Improvement	

- **US Department of Energy to Award about USD 3.5 billion in battery grants in 2024. Award size USD 50-300 million.**

**Downstream Business
(Natural Graphite Anode)**

+

**Upstream Business
(Graphite Mining)**

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 production 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"



Zavaliievsky Graphite Operation



2023 Highlights

- ◆ Growth opportunity in garnet ore
 - ◆ We have garnet in stockpile and in mine; estimated opportunity size of over \$100 million revenue
 - ◆ Positive feedback from a large customer, 500 kg sample requested
- ◆ LOI signed with M2i Global, Inc. for potential supply of up to 20 ktpa graphite to US Government
- ◆ Generated revenue of €992k during January – July 2023
- ◆ ZG won €600k Government grant & was identified as a strategic asset by EIT (European Institute of Technology) and ERMA (European Raw Materials Association)
- ◆ First production campaign was successful (1,015 tonne produced), 2nd underway with 400 tonne produced



VOLT
GRAPHITE TANZANIA

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

Tanzania Bunyu Graphite

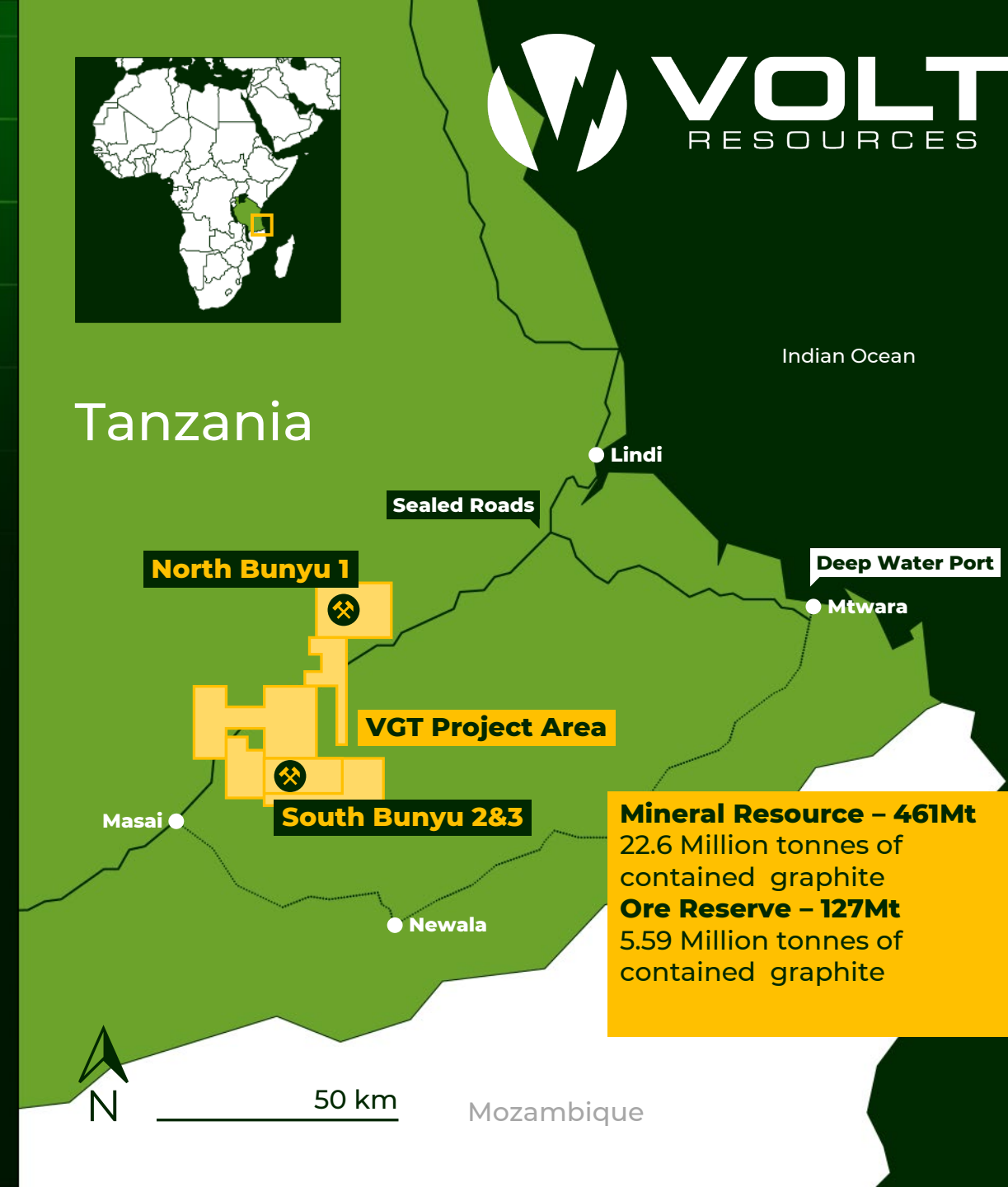
Enough to power 2.8 million EVs per year

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

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

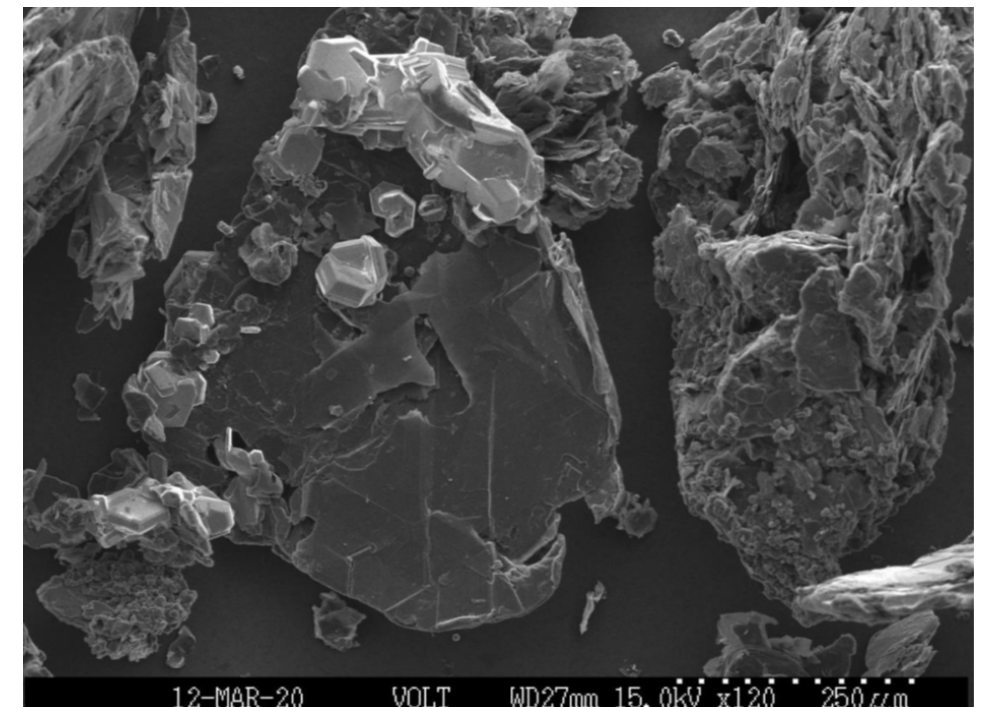
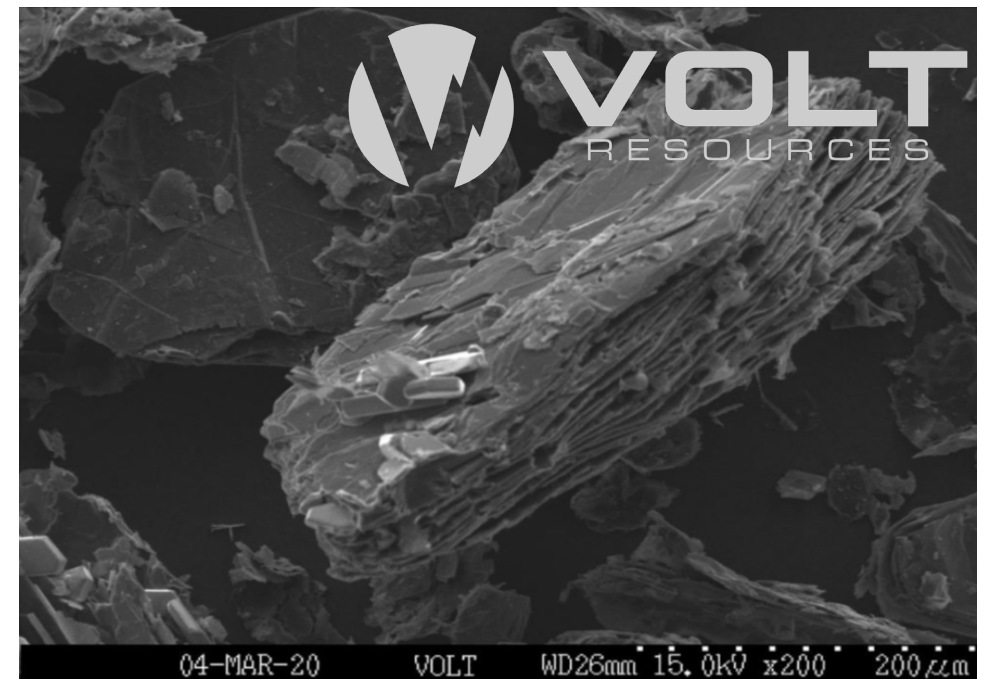
Size (micron)	Size (#)	% Distribution	Type
+300	+50	12	54% Coarse
+180	+80	27	
+150	+100	15	
-150	-100	46	46% Fine

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

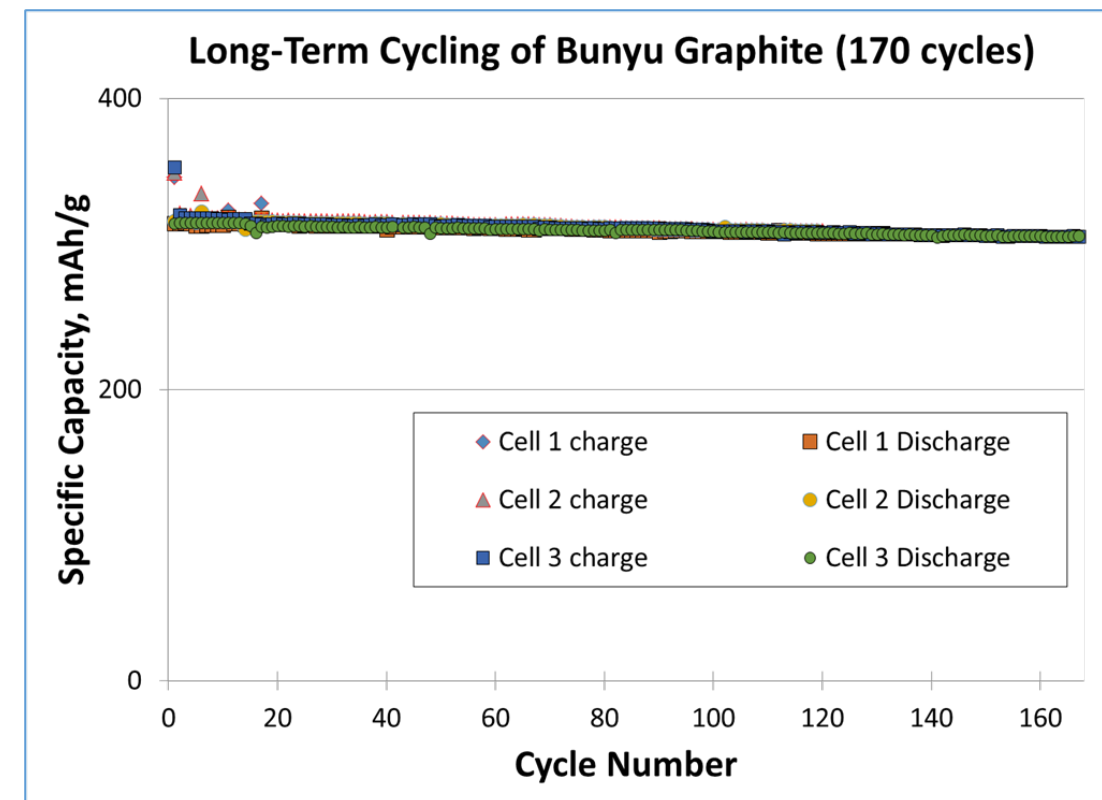
- The Scanning Electron Microscopy image is of the concentrate-purity Bunyu graphite.
- It shows pale inclusions attributed to gangue, clearly located either on the surface of larger flakes or on edge planes.
- Typically, impurities are embedded as gangue in between flake layers of classic graphite. 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

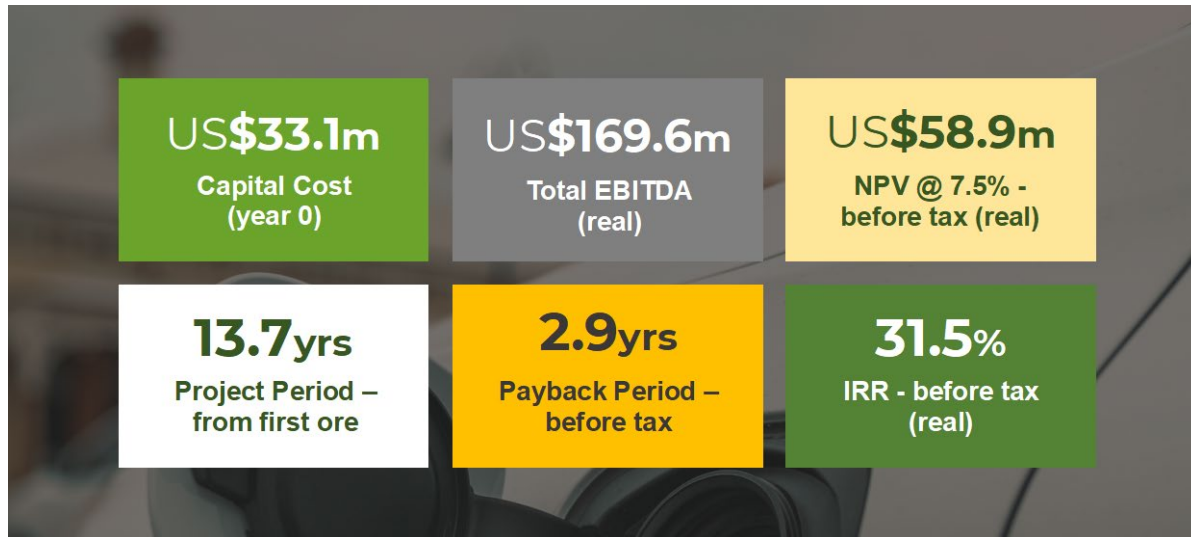
Supplier A, Natural Graphite Anode	Fe	30	ppm
Supplier B, Natural Graphite Anode	Fe + other	40	ppm
Supplier C, Natural Graphite Anode	Fe + Ni	35	ppm
Bunyu Natural Graphite Anode	Fe	7	ppm
	Fe + Ni + Co	17	ppm
	S	63	ppm



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

Improved Bunyu Stage 1 Financials

2023 vs 2018 feasibility study comparison



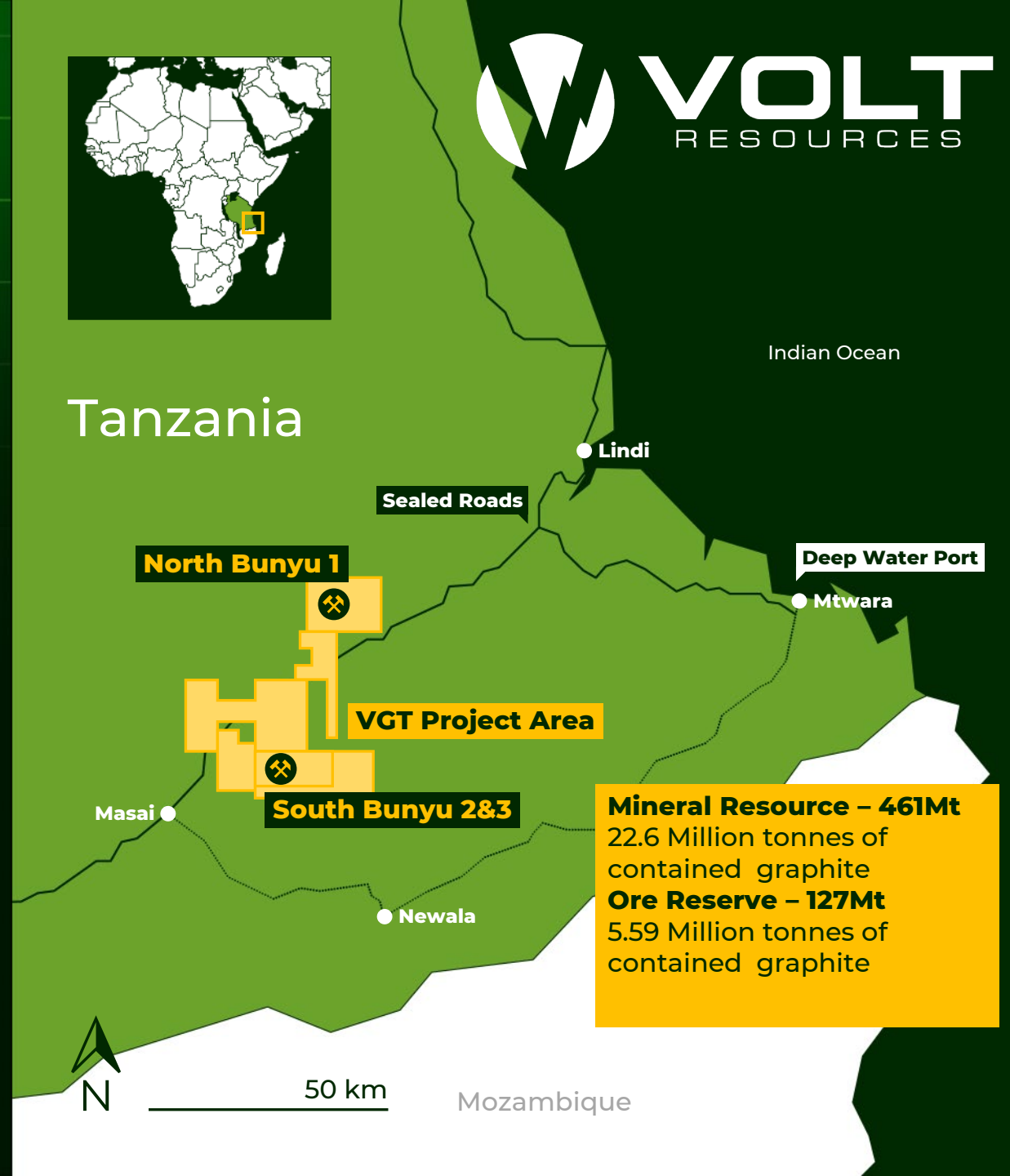
Stage 1 Project	Unit	Financial Performance	
		2023	2018
Project Period - from first ore	years	13.7	7.1
Total Net Revenue	US\$ M, real	433.2	268.6
Total EBITDA	US\$ M, real	169.6	93.6
IRR - before tax	%, real	31.5	21.0
IRR – after tax*	%, real	23.6	19.3
NPV @ 7.5% - before tax	US\$ M, real	58.9	18.6 ¹
NPV @ 7.5% - after tax*	US\$ M, real	36.4	14.7 ¹
Capital Cost (year 0)	US\$ M, real	33.1	31.8
Payback period, before tax – from first ore	years	2.9	
Payback Period - after tax - from first ore	years	3.9	4.4

* 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.

Bunyu financing is progressing

- Very few graphite projects in the world can simultaneously meet customer demands of
 - Quantity
 - Quality
 - Cost
 - Compliance with Inflation Reduction Act
- Due diligence ongoing



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



Inflation Reduction Act, US
Consumer Tax Credit, \$7,500 per EV
Eligibility Requirements

\$3,750

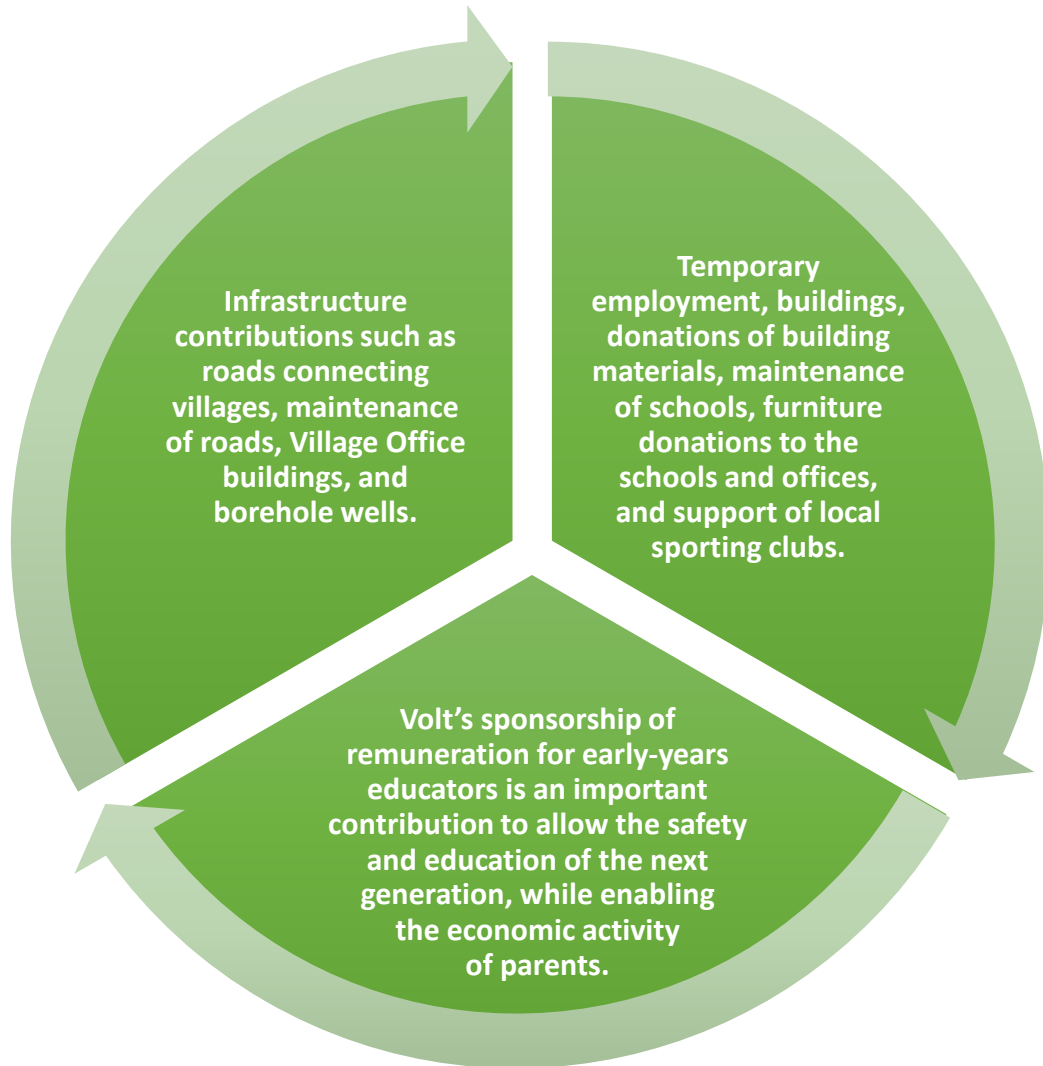
Critical Minerals are extracted,
processed, or recycled in US
or a country with a Free
Trade Agreement

\$3,750

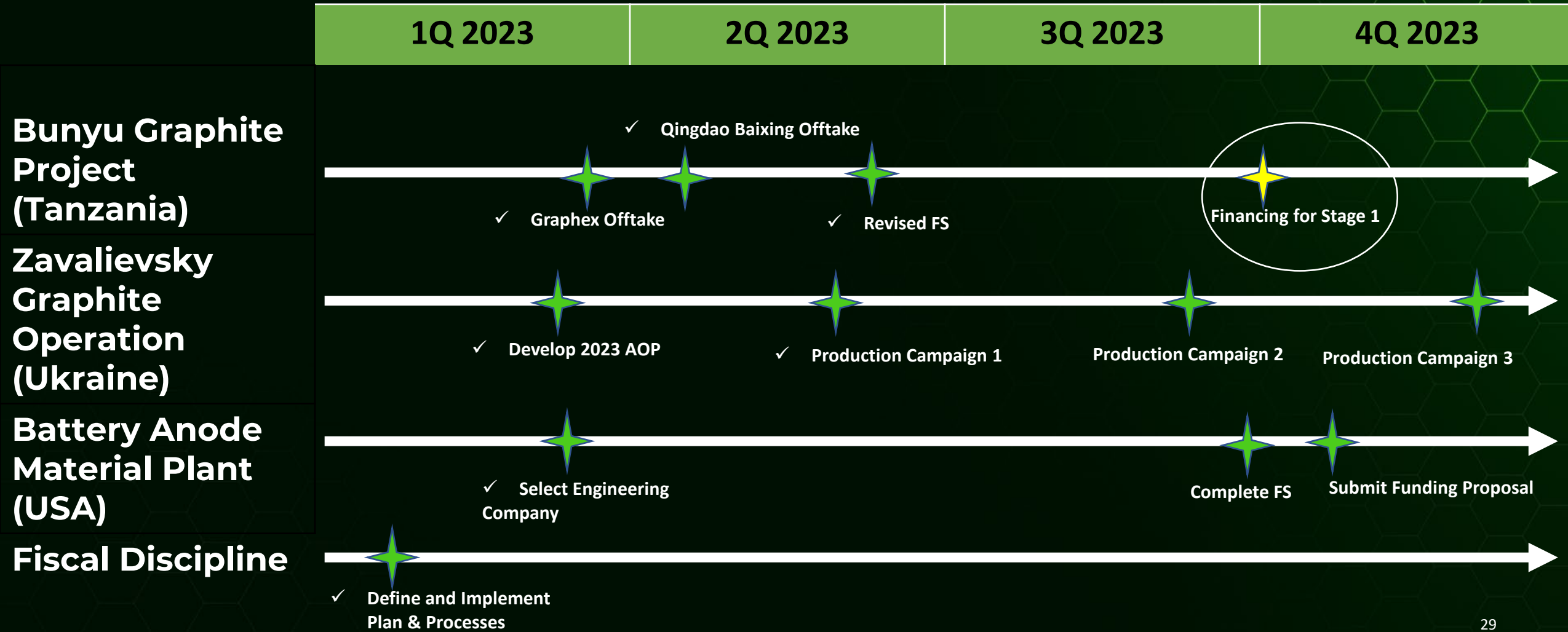
Battery Components are
manufactured or assembled
in North America

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



Major milestones reached for Bunyu, ZG and Battery anode plant



Transformation of Volt is Underway



Natural Graphite Anode Business

1. Growing list of offtakes, partnership, and Joint Development Agreements with top tier customers
2. On track to become a world-class producer

Bunyu

1. Revised feasibility (2023) study is a significant improvement over 2018.
2. Due diligence ongoing

ZG

1. Production campaign #2 underway
2. Garnet growth opportunity progressing

Financing

Robust pipeline of non-dilutive funding to capitalize on Government incentives

Contact



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