

# BRITISHVOLT®

**Investor Presentation** 





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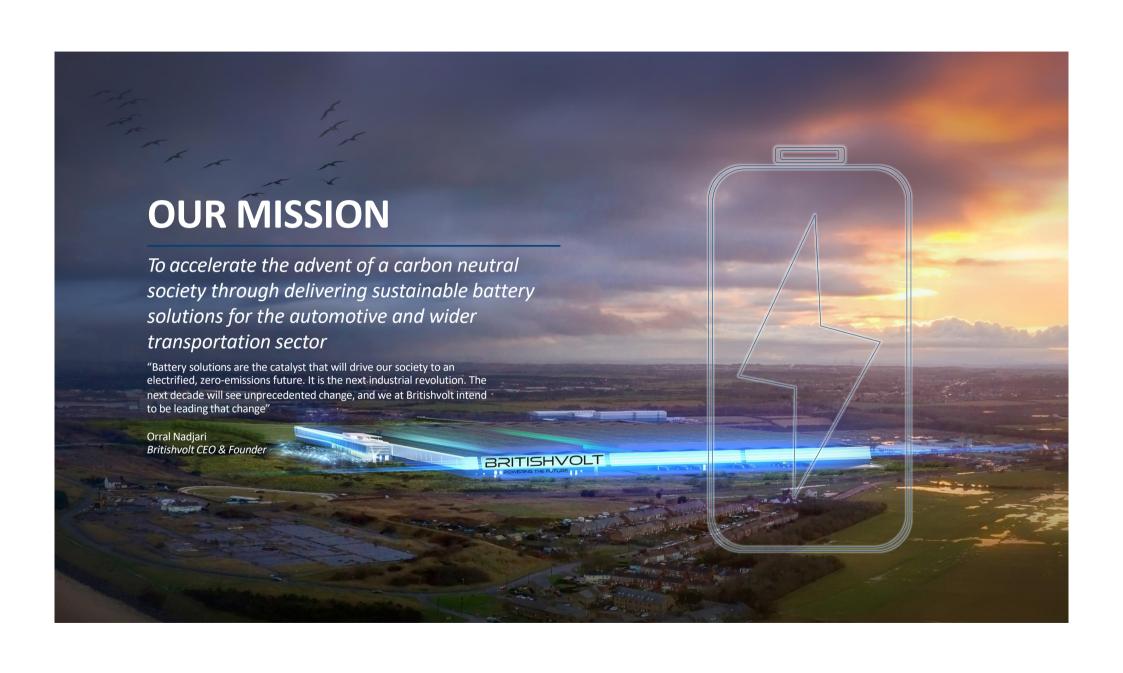
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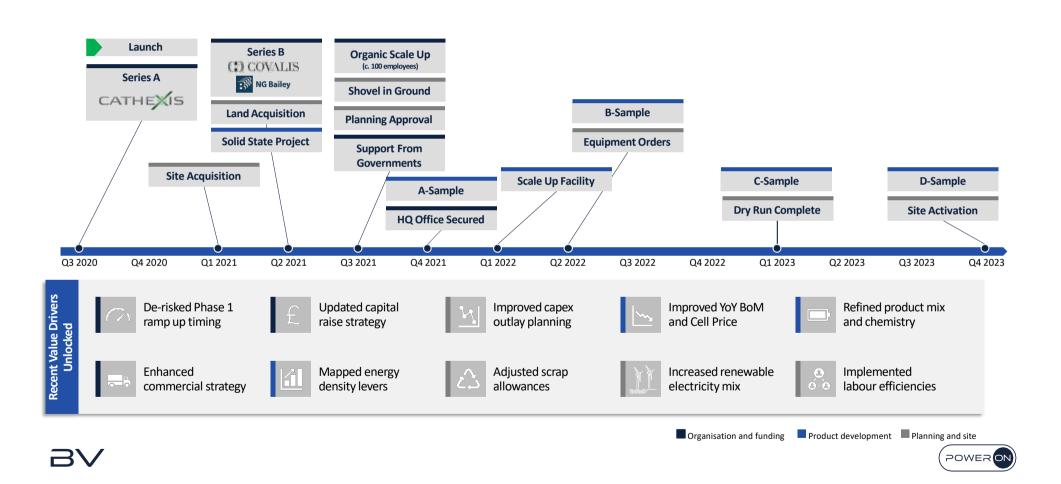
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### We are on a solid trajectory, with successful funding to date, a detailed technology roadmap, and a worldclass site in the UK that has been granted planning permission



## **Key Investment Highlights**



We are making significant progress against a bold vision to become a market-leading battery cell manufacturer, 21 months from concept



World-Class Management and Technical Teams



**Leading Technology** 



Supported by Unprecedented Market Demand



Accelerated
Time to Market



Global Company Rooted in the UK and Canada



Supply Chain Strategy with ESG at its Core



**Strong Government Support** 



Strong Commercial Traction with Secured Offtake





## Global decarbonisation agenda is driving a significant increase in demand followed by a lagging supply, generating a supply / demand imbalance

The global battery market is at a tipping point ...

The global decarbonisation agenda and energy transition is driving unprecedented demand for electric vehicles and storage

A global battery market worth ~\$250bn by 2040¹

Sharp rise in US BEV demand by 2024, with ~2m EVs to be produced in North America by 2027<sup>2,3,4</sup>

~420GWh of battery demand anticipated in Europe in 2025<sup>3</sup>

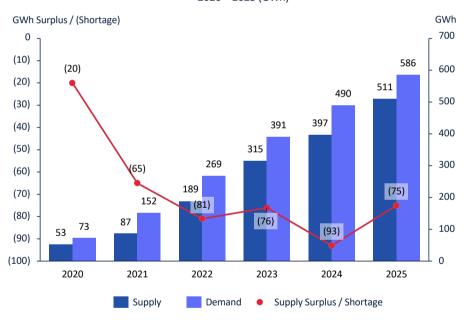
EV sales anticipated to account for >50% of European sales in 2025<sup>2</sup>

Europe anticipated to lead EV sales in absolute units until 2031<sup>2</sup>

~170 GWh of battery demand anticipated in North America in 2025<sup>3</sup>

## ...and supply will fall short of forecasted supply in the European and North American markets





Source: <sup>1</sup> Goldman Sachs Equity Research, <sup>2</sup> EY Mobility Lens Forecaster, <sup>3</sup> EY analysis and adjustments to IHS production forecasts using OEMs cycle plan announcements, <sup>4</sup> LMC Automotive, <sup>5</sup> IHS Markit LV Alternative Propulsion Forecast, <sup>6</sup> EY-Parthenon Analysis





## We have selected the UK and Canada for our initial Gigaplant locations given strong market fundamentals, early-mover opportunities and supportive government attitudes

Several factors have led Britishvolt to choose the UK as the site for its first Gigafactory, then accelerating the development in other favourable markets







Favorable Market Fundamentals



Wide Access to OEM Customers



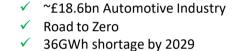
Strong Government Support



Highly Localised Sourcing



Access to World-Class Talent



- ✓ Hub for Key OEM Customers
- ✓ Automotive Transport Fund (ATF) approved
- Localised supply chain driven by UK's 'rules of origin'

- √ ~US\$20bn Automotive Industry
- ✓ Zero Emission Vehicle Infrastructure
- No Gigaplant operating or announced
- ✓ Five global OEMs producing > 2m vehicles p.a.
- Ongoing discussions with Government of Quebec

Investment in lithium development

- Abundant raw materials
- turing and key industry leaders in battery

 Research and development facilities, manufacturing and key industry leaders in battery manufacturing and automotive experts





## In the UK, we have secured the best location with a site that is shovel-ready and served by renewable energy; planning permission was granted on 7 July 2021

#### **Water Supply**

~2bn litre p.a. capacity for both main site and supplier park occupants



## Blyth, Northumberland



#### Railhead

Existing freight railhead to be reinstated, providing supply chain flexibility and efficiency

#### **North Sea Link Interconnector**

~1.4GWh capacity providing enhanced energy security



#### **Private Substation and Grid**

Ensures control of supply for the Gigaplant and power to other supplier park occupiers



Existing grid infrastructure with sufficient capacity available





#### **Deep Sea Port**

£35m council and LEP funded upgrade works ongoing

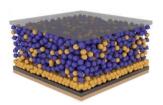
We are also in active discussions with **global supply chain providers** and **OEMs** to **co-locate** in an adjacent supplier park, creating an ecosystem of **battery value chain players** 





We have signed an MoU and term sheet with leading organisations including WMG and Oxford University for development of next-gen solid state technology

Solid state batteries are expected to be the next generation technology for electric vehicles: they will provide multiple benefits and expediate the EV transition





True solid state battery with lithium metal anode



**Energy density improvement** of up to 70% at the lithium ion pack level



**Significantly increased safety performance** due to nonflammable and noncombustible separator



Early stage analysis suggests a cost reduction of ~15% compared to graphite anode

We are leading a Special Purpose Vehicle (SPV) along other prominent organisations driving towards a mass solid state product by 2030. Britishvolt will:

- Partner in the SPV, sharing the all the IPs generated as part of the project
- · Contribute expertise and knowhow into the development, particularly on cell design and manufacturing technology
- Co-invest in the capabilities and the projects to deliver the outcomes

# The SPV THE FARADA SOLERAT ONTORE ONTORE

#### 2021 - 2025

Prototype, develop technical solutions, rapidly integrate, optimise materials and scale up prototyping using facility process line equipment

#### Target 2025

Produce a target prototype cell with >5 mAcm-2, 80% capacity retention after 500 cycles, and storage of up to 1000Wh/L using cost-viable materials and processing in single layer

#### 2025 - 2030

Development and testing, cell manufacture for niche manufacture and high-end EVs with ultimate ambition to manufacture for the mass market at the giga-scale

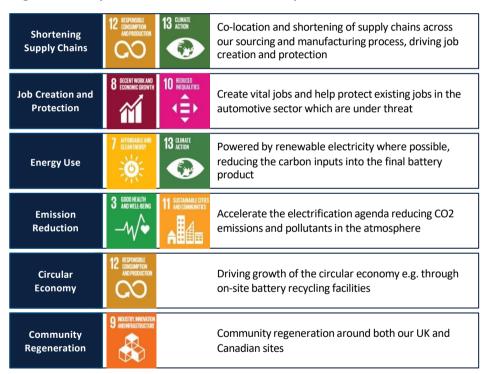
POWERON

Note: Though prototype devices will be available early, the consortium (and potential contributing OEMs) project partners believe a credible route to scaled, stacked and viable commercially representative devices by 2025 is a archivable position from which the route to scaled manufacture for mass production within 4 years is pragmatic and realistic expectation on time to deliver true volume manufacture of next gen battery technology

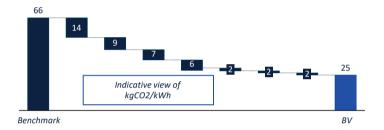


## We are building a business with a clear ESG strategy that puts sustainability at the heart of how we measure and demonstrate value

## Sustainability is at the core of our business proposition, with our strategy aligned to many of the UN's Sustainable Development Goals



We have developed a roadmap to reduce our carbon emissions across the value chain by 62% compared to benchmark value chain emissions



Targeting a reduction in our CO2 emissions to 25 kg CO2/kwh through focusing on core levers across the value chain:

- Sustainable localised cathode material production
- · Cell production optimisation
- PCAM sourcing from sustainable sources
- Sustainable synthetic and natural graphite localised production
- Materials recycling





#### **Strategic Partners**

Strategic Investors

**Tooling & Services:** 





RIDGE







**Principal Contractors:** 







**Strategic Advisor:** 



**GLENCORE** 



Design & Architecture:



Legal Counsel:



**Financial Advisors:** 











