

# Market failures of the battery industry



**Isobel Sheldon OBE**  
Chief Strategy Officer

**“Our addiction to fossil fuels is pushing humanity to the brink. We face a stark choice: either we stop it, or it stops us. It’s time to say: enough.”**

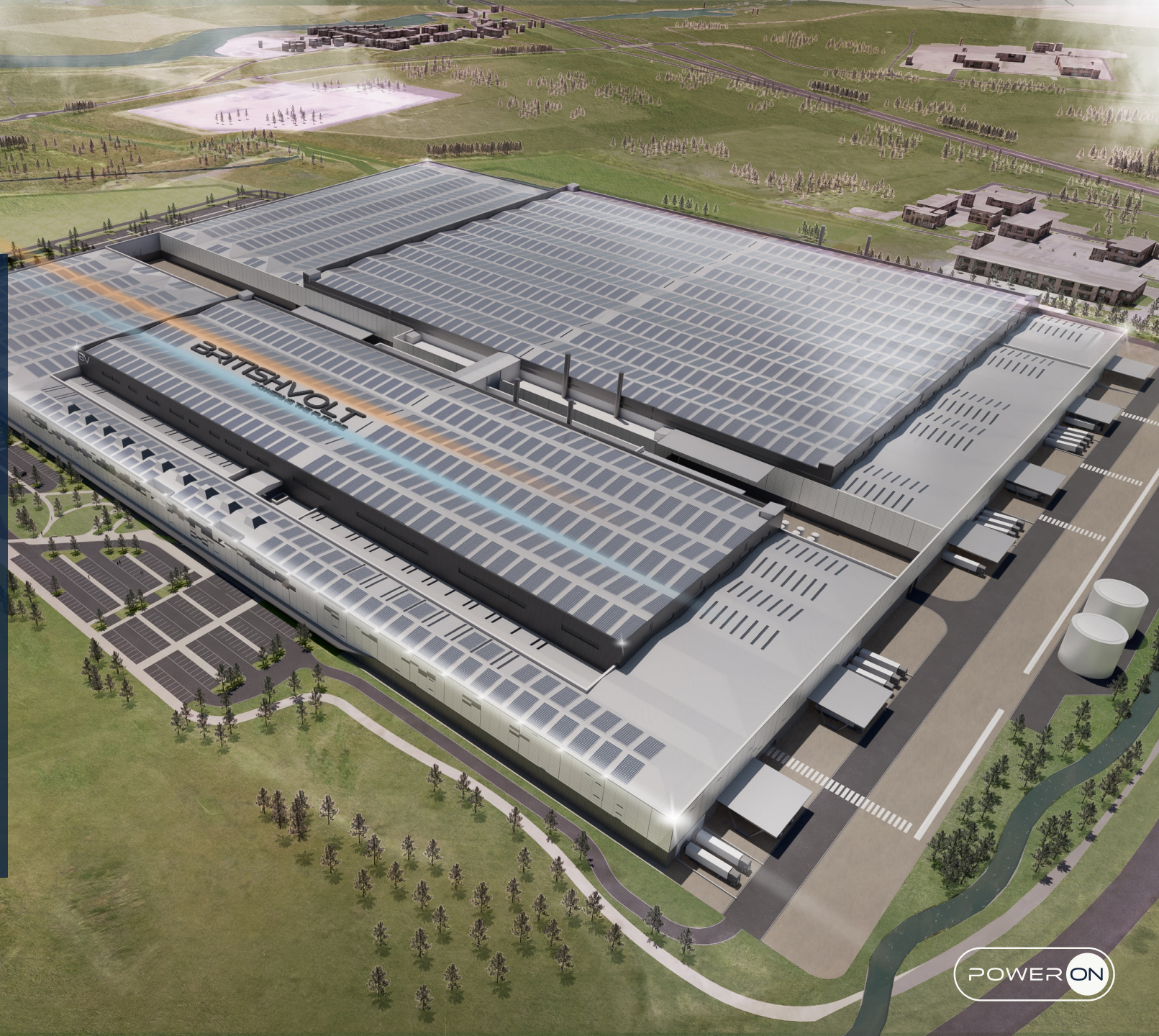
**Antonio Guterres,**  
UN Secretary-General COP26



# Who we are

We are Britishvolt.

Our mission is to be the leading, ESG-focused organisation that develops technologies to help overcome the environmental, technical and commercial challenges of sustainable, low-carbon battery solutions across all segments of electrification

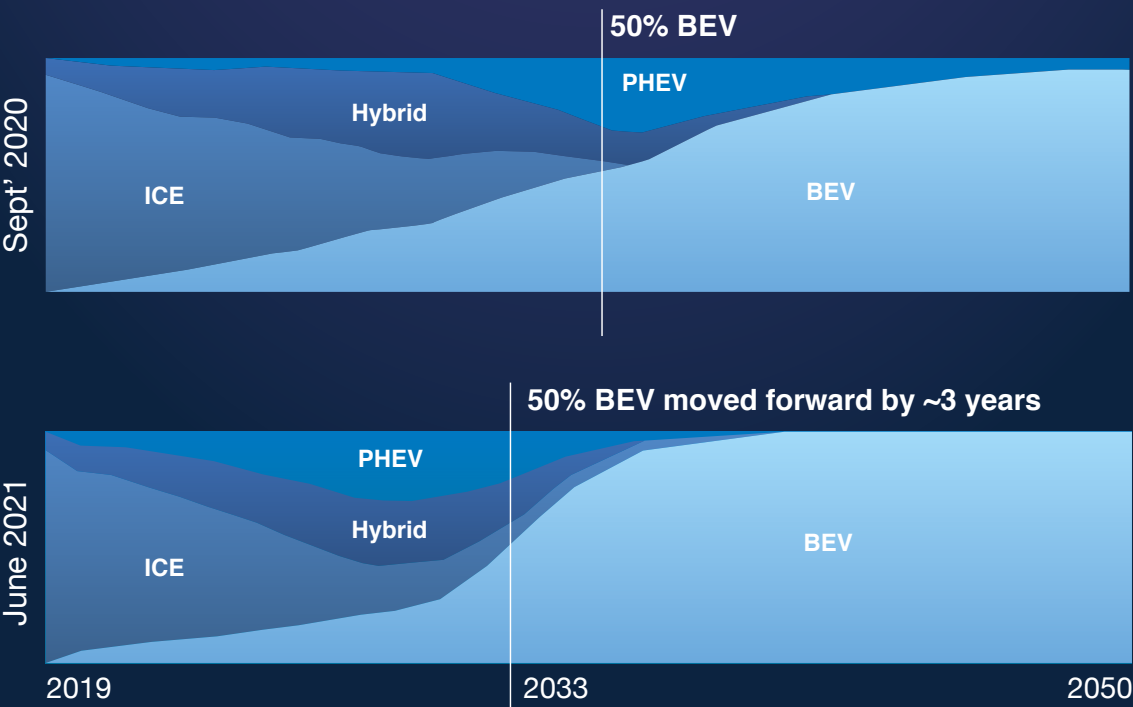




# Consumers have shown an accelerating preference towards EVs that is driving a rapidly increasing forecast for BEV vehicle registrations

2032

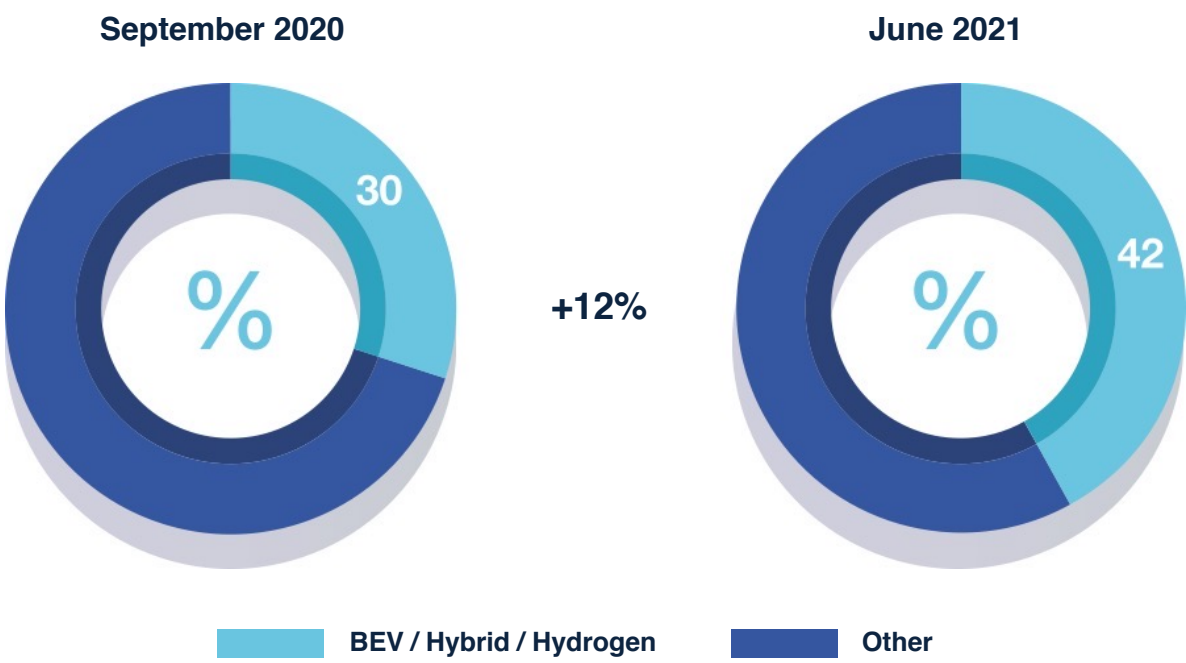
BEVs to be the dominant powertrain, 3 years earlier than anticipated



Shift in light vehicle registrations forecast, Europe (2019-2050F)

42%

Global consumer preference for EVs



Powertrain preference of consumers car purchase intentions (2020-2021)

**BV are uniquely positioned to respond to the market failures of the battery industry and take advantage of unprecedented market growth using tailored and sustainable batteries**



**CAPACITY FAILURE**

2028 forecasted battery demand to outstrip supply by 554GWh in Europe & 334GWh in North America



**TECHNOLOGY FAILURE**

Current ‘one size fits all’ approach does not respect OEM brand values. Tailoring will be key to success



**ESG FAILURE**

Embedded carbon is unnecessarily high within the battery facilities and supply chain



**SUPPLY FAILURE**

Supply of raw materials and capacity in the midstream has not kept pace with the demand for EVs



**NIMBLE**



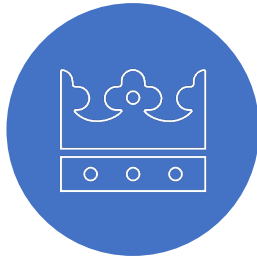
**SECURED SUPPLY**



**MARKET SPEED**



**SUSTAINABLE**



**TAILORED**



**BV investment strategy is focused on controlling access to raw materials through strategic partnerships as industry dynamics have transformed the market**

**2016**

**PRODUCT PUSH**

**Sluggish OEM demand; securing orders is critical**



**2022**

**SUPPLY CONTROL**

**High OEM demand; securing material is critical**



**BV**



“We are seeing significant recent inflation pressure in raw materials and logistics.”

**Elon Musk, CEO Tesla**

“Demand is not the issue; the supply chain for EVs will be the bottleneck, not only for us but also for all our competitors.”

**Herbert Diess, Group CEO VW**

“There’s an imbalance this year between supply and demand, especially with the new product line-up we have. We’re virtually sold out on all of our new products.”

**John Lawler, CFO Ford**

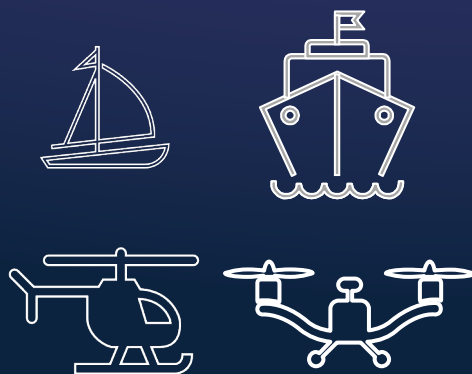


**BV have a long-term vision to expand our product offering globally to provide clean energy storage that supports the wider global energy transition**

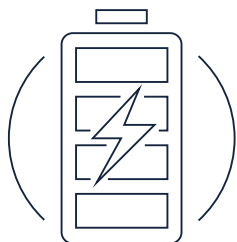
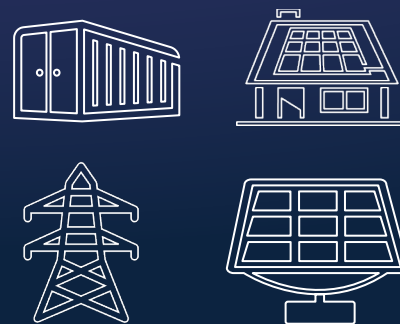
## ELECTRIC VEHICLES



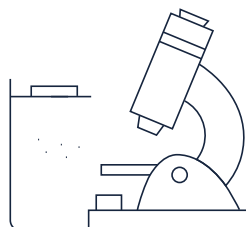
## MARINE & AEROSPACE



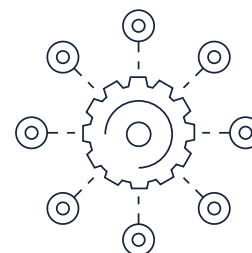
## GRID



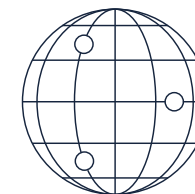
**Deliver a world-class battery solution**



**Leverage world-class UK R&D ecosystem**



**Develop suite of solutions for different markets**



**Selectively enter attractive markets**



**BV are progressing towards commercial production of the first products for OEM by H2/2024 and are already working on the next generation cells**



**Cylindrical**  
High energy optimised  
Standardised format with  
balanced characteristics



**Large format cylindrical**  
High performance  
High power and  
energy density



**Prismatic**  
Commercial vehicle optimised  
Strong cost, safety and  
cycle life characteristics



High energy  
density (range)



High power  
capability (charge  
and discharge)



Continuous high  
power with little  
capacity derating



Maximum cell to  
pack integration  
benefits

# ESG is a pillar of BV's purpose, with the strategy and vision aligned to the UN Sustainable Development Goals framework



**Protecting our environment**

**Carbon footprint & renewable energy**

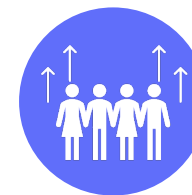
**Raw materials, recycling, waste & circular economy**



**Building responsible partnerships**

**Ethical supply chain standards**

**Transparency and collaboration with stakeholders**



**Equity in society**

**Building capacity in the community**

**Diversity, inclusion and belonging**



**100% renewable-powered sites**



**GLENCORE**

**BRITISHVOLT**

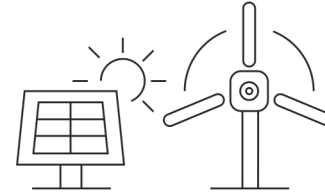
**BV FutureGen**  
Foundation

**BV**



**BV have secured the best UK location that will be served by 100% renewable energy with a capacity of 38GWh by 2030, and are targeting high-quality location in Canada**

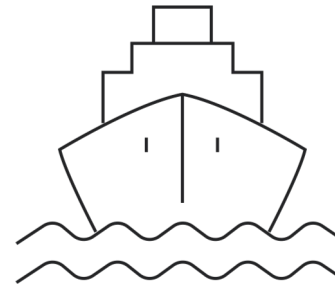
# Site fundamentals are critical to the success of battery manufacturing facilities



Access to renewable energy



Access to energy infrastructure



Access to logistics / supply chain





Thank you

Let's work together –

To help overcome the environmental, technical and commercial challenges of sustainable, low-carbon battery solutions across all segments of electrification

BV

POWER ON