

BASQUEVOLT, backed by EIT InnoEnergy, unveils Europe's first innovation centre to develop 100% European solid-state battery technology

The breakthrough in solid-state battery technology could drive a potential 30% cost reduction compared to lithium-ion batteries.

19 June, 2023: [BASQUEVOLT](#), a specialist in solid-state technology for mobility and stationary energy storage applications, backed by [EIT InnoEnergy](#), the innovation engine for sustainable energy supported by the European Institute of Innovation and Technology, an institution of the European Union, has revealed its research and development centre will deliver 100% European solid-state battery technology by the end of 2023.

In cooperation with the CIC energiGUNE, its advanced research partner, the company has been testing its first multilayer cells since last April, demonstrating that its technology can reach a very high energy density (1,000 Wh/l and 450 Wh/kg), while significantly reducing overall battery pack costs. BASQUEVOLT battery cells can be produced through a more efficient less complex process, creating a 30% reduction in the capital investment needed per GWh in a gigafactory and 30% less energy used per kWh produced, compared to lithium-ion batteries.

BASQUEVOLT expects to start producing its 20Ah cells by the end of this year as part of Europe's ambitions to meet current decarbonisation targets. The batteries will support the use of electric vehicles, making them more accessible and affordable to a wider range of consumers.

The company has also set a goal to start the manufacturing of solid-state cells by the end of 2025 at its 1GWh (gigawatt-hour) future facility in Vitoria-Gasteiz. This target indicates its commitment to scaling up its battery production capabilities.

Francisco Carranza, BASQUEVOLT's Chief Executive Officer, said: *"Today's unveiling represents a significant milestone for BASQUEVOLT and reaffirms our position as a pioneer in the European solid-state industry. Our dedicated research and development team has successfully overcome technical challenges to deliver a cost competitive solid-state battery technology that offers a very high energy density. This breakthrough has the potential to revolutionize multiple sectors, including transportation and energy storage. We remain committed to further refining our solid-state battery technology and collaborating with industry partners to bring this innovation to the market, driving positive change on a global scale."*

Just one year after its creation, with more than 40 employees from 15 different nationalities, BASQUEVOLT has assembled a team of international experts and local talent, fostering a diverse and innovative work environment, now working at full capacity in the development and industrial scale-up of the solid-state battery technology competing with the most advanced companies in the world.

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About EIT InnoEnergy

[EIT InnoEnergy](#) operates at the centre of the energy transition and is the leading innovation engine in sustainable energy, bringing the technology and skills required to accelerate the green deal, progress towards Europe's decarbonisation goal, and improve energy security.

Ranked as Europe's top impact investor in cleantech in 2022, [named in 2023 as a top 10 active deeptech investor by Sifted](#), and recognised globally as the [most active sustainable energy investor](#), EIT InnoEnergy backs innovations across a range of areas. These include energy storage, transport and mobility, renewable and sustainable buildings, and cities – leveraging its trusted ecosystem of 1200+ partners and 29 shareholders.

The 180+ portfolio companies are on track to generate €72.8 billion in revenue and save 1.1G tons of CO₂e annually by 2030. Collectively, these companies have raised €8 billion in investment to date.

EIT InnoEnergy is the driving force behind three strategic European initiatives which include the [European Battery Alliance](#) (EBA), [the European Green Hydrogen Acceleration Centre](#) (EGHAC) and the [European Solar Photovoltaic Industry Alliance](#).

EIT InnoEnergy was established in 2010 and is supported by the European Institute of Innovation and Technology ([EIT](#)), an independent EU body set up in 2008 to drive innovation and entrepreneurship across Europe. Since its inception, EIT InnoEnergy has screened more than 7,000 start-ups, launched more than 300 products to market and overseen its portfolio companies filing 290+ patents. Today, EIT InnoEnergy has a 200+ strong team with offices across Europe and in Boston, US. www.innoenergy.com

About BASQUEVOLT

BASQUEVOLT aims to become the European leader in the next generation of solid-state lithium battery technology. This will make possible the mass deployment of electric transportation, stationary energy storage and advanced portable devices. For more information, please visit www.basquevolt.com

Careers: <https://basquevolt.com/en/careers>

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About the technology

The portfolio of technologies that the company is initially developing includes a family of proprietary polymer-based electrolyte that could be combined with different cathodes and lithium metal anodes, aiming at accelerating the mass market deployment of solid-state batteries. Solid-state batteries can provide potential solutions for many of the limitations of liquid Li-ion batteries, such as high cost or low energy density. Solid-state battery technology may seem like the final frontier of technology in this sense, a solution that has all the potential to become the accelerator of the future of electric mobility.