Crystal Battery Pioneer *theion* Opens Tech Centre in Berlin

- *Crystal battery pioneer theion develops ground-breaking tech to power future air, road transport and grid storage*
- *The sustainable battery is based on sulfur crystals, which is both cost and energy efficient to manufacture*
- *Full infrastructure tech centre established for theion's pioneering work in battery development*
- *New facilities include battery lab area and semi-automated pouch cell sampling line*
- *Proximity to tech and science hub - Berlin Adlershof - facilitates further talent acquisition and accelerated product development*
- *Follows recent 3rd party validated breakthrough of patented theion Lithium metal host anode achieving 2000 cycles*
- *Safe and high-energy density lithium anode technologies paves way for low-cost ultra-fast charging in various applications*

theion Chairman Dr Gerhard Cromme opens the new Tech Centre together with the Board

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BERLIN, 13th June 2024 – Berlin-based battery company *theion* has opened its new Tech Centre in the science and technology park, Adlershof, one of Germany's largest tech clusters, where its game-changing crystal batteries are being developed.

theion's battery innovation is based on sulfur – a material available in abundance without harmful and intensive mining (received as byproduct in industrial processes) – and a highly effective and efficient substitute for cathode materials, which come with high processing costs and metal contents of nickel and cobalt. Sulfur is not only 99% cheaper to source than the cathode materials used in existing state-of-the-art lithium-ion batteries, but theion's innovative battery cells also require significantly less energy to produce – from raw material to finished cell.

theion's patented sulfur-crystal battery chemistry targets to triple the energy density, at just one-third of the cell cost and one third of the CO_2 footprint of current battery technology. This breakthrough enables lightweight, carbon neutral sustainable batteries to transform electric mobility and stationary storage.

The new tech centre laboratories include a fully equipped synthesis lab, glovebox lab and cycling lab, enabling theion's experts to accelerate their revolutionary work to disrupt the battery industry with 1 MWh of semiautomatic cell assembly to provide customer samples.

"We are thrilled to move to our new labs, workshop and cell sampling areas," said **Martin Schaupp, CTO of *theion***; "The technical conditions are ideal for our team of experts, smart thinkers, and fast executers to operate on a skunk-works basis of small, highly effective teams capable of incredible results."

Lukasz Gadowski, theion board member and CEO of Team Global – a major investor, said: "As an investor in frontier tech businesses I have witnessed thousands of start-ups, invested in hundreds and succeeded with dozens of

breakthrough technologies. theion's crystal battery innovation has what it takes to revolutionize the battery industry, with an initial focus on electrified aviation they will have the expertise and credibility to move in to electrified automotive, handheld devices and grid storage. Team Global's strategy is to invest in and enable small, strategic and focused teams of dedicated and motivated entrepreneurial leaders, operating as highly impactful skunk-works-type units to create disruptive results."

theion recently announced a breakthrough with its patented lithium metal anode chemistry, achieving 2000 charging and discharging cycles under third party testing by a leading independent research institute in Germany, paving the way for safe and high energy density batteries with the capabilities for fast-charging.

In the current series A funding round, Enpal is one of the key investors, with the aim of combining PV installation with theion's competitive energy storage battery.

Henning Rath, executive at Enpal and Board member at theion, said: "Sulfur Crystal batteries have the potential to enable grid storage with safe and affordable batteries, which are resource and energy friendly to produce. In partnership we are on the mission to lead the energy transition to renewables."

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About *theion* GmbH
Headquartered in Berlin, Germany, theion develops sulfur crystal batteries for mobile and stationary applications. By using sulfur, theion targets to store up to 3x more energy in its batteries compared to today's generations of batteries. theion's proprietary production processes are very cost and energy efficient complementing the idea of creating a highly sustainable battery.

About Team Global
Team Global is a technology holding with offices in Berlin and Palo Alto; the company is founded and led by CEO Lukasz Gadowski. Team Global invests in frontier technology companies in the sectors of mobility, aerospace, energy and robotics across Asia, Europe and the USA. Notable portfolio companies include Archer Aviation, AutoFlight, Volocopter, Enpal and MILES mobility.

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