HAVEN, A NEW EUROPEAN PROJECT TO MODERNISE POWER GRIDS AND ADVANCE THE ELECTRIC VEHICLES INFRASTRUCTURE

- **Funded with €5.9 million, HAVEN seeks to design a sustainable, and safe High-Efficiency Energy Storage System (HESS) to revolutionize the electric grid and electric vehicle (EV) charging infrastructure**
- **HAVEN's position as a game-changer in the field of energy storage systems**

Ninove, Belgium. – January 30, 2024. The HAVEN consortium, a collaborative effort of leading academic and industrial partners, will work for 48 months on the design of a sustainable, and safe High-Efficiency Energy Storage System (HESS) to revolutionise the power grid and electric vehicle (EV) charging infrastructure. The innovative HESS will address the challenges of integrating renewable energy sources (RES) and enabling seamless EV charging.

The project will combine next-generation high-energy (HE) and high-power (HP) storage technologies, optimized power converter devices, advanced energy management tools, and a novel system architecture. This modular, scalable, and cost-effective solution will efficiently manage power and energy shares while optimising system sizing, CAPEX/OPEX, ageing stress, and storage degradation, ensuring optimal performance and value.

To further enhance HESS's capabilities, HAVEN is developing a flexible Digital Twin (DT) that can predict system performance and management throughout its lifetime. This Digital Twin, valid regardless of cell chemistry or application, will enable predictive maintenance and streamline design processes.

HAVEN project has the potential to make a significant contribution to the EU's goal of achieving a sustainable and secure energy future. By developing an innovative HESS solution, the project can help to overcome the challenges of integrating renewable energy sources into the existing grid and reduce the reliance on fossil fuels. The project's focus on scalability, cost-efficiency, and innovative digital twin technology also has the potential to make HESS more widely adopted and improve the overall efficiency of the electricity system.

The HAVEN consortium brings, led by BRING as coordinator, together a diverse and experienced team of 15 partners from Belgium, Germany, Spain, Lithuania, Turkey, Portugal, Italy, Denmark, France, Slovenia, Morocco and India. This multidisciplinary group comprises multidisciplinary group of research centres, companies, and associations to successfully carry out the project.

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About HAVEN

It is led by Brussels Research and Innovation Center for Green Technologies (BRING), and its 15 partners consortium from Belgium, Germany, Spain, Lithuania, Turkey, Portugal, Italy, Denmark, France, Slovenia, Morocco and India. HAVEN has received a grant of € 5 991 258,50 from the European Climate, Infrastructure and Environment Executive Agency (CINEA). To meet the EU's renewable energy goals, the HAVEN project will develop a hybrid energy storage system (HESS) that combines multiple battery technologies to provide long-duration storage and a variety of grid support services. This will be validated through real-world use cases and will be accompanied by a digital twin for predictive maintenance.

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