Press release – 19th of January 2021

LOLABAT project* launches today: SuperGrid Institute leader of the work package "performance demonstration for stationary energy storage applications"

The LOLABAT project, short for LOng LAsting BATtery, has been awarded a Horizon 2020 program grant by the European Commission and was officially launched today, the 19th of January, in Paris. This project, selected from amongst 44 submissions, aims to develop new battery technologies for stationary energy storage. SuperGrid Institute is to lead the work package responsible for demonstrating the new battery technology's viability, using its brand new, unique HydroPHIL test platform.

The LOLABAT project is due to run for a duration of 39 months and aims to develop and validate a new generation of batteries for stationary applications (e.g. renewable energy storage). A consortium of 17 European partners, including large industrial and R&D companies, SMEs, universities and research institutes, will work to develop reliable, safe and low-cost alternatives to the current market-leading Lithium-Ion battery technology by focusing on promising Nickel-Zinc technology.

SuperGrid Institute has been selected to lead a crucial work package within the project due to its expertise in electrical networks and its understanding of the environment where stationary energy storage occurs. SuperGrid Institute's focus will be to demonstrate the viability and effectiveness of Nickel-Zinc batteries as a major innovative concept for the future of electricity grids. The work package in question is key for the overall success of the LOLABAT project as it is charged with ensuring the battery concept can be delivered at an acceptable price point while meeting the required performance level, identified in a separate work package.

> *"SuperGrid Institute brings extensive expertise in electrical grids and technology demonstrators to the LOLABAT project. Our proven experience in setting up technology demonstrators in a simulated environment will be a valuable asset in the process of increasing the Nickel-Zinc battery technology's maturity"*, explains Guillaume AMODEO, Project Manager for Storage technologies at SuperGrid Institute.

Using its brand new HydroPHIL platform (Hydro Power-Hardware-in-the-Loop), the first of its kind in Europe, SuperGrid Institute's Power Storage & Balancing research programme will demonstrate the interest of this technology within different applications, such as smart buildings and distribution networks, and will reveal how using this type of battery technology could increase network flexibility. The institute will also be involved in evaluating the hybridisation potential of one of EDP's (Electricidad de Portugal) hydraulic power plants. It will validate the use and feasibility of the battery technology within the power plant through simulation and testing a reduce-scaled model.

* The LOLABAT project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 963576

ABOUT SUPERGRID INSTITUTE

SuperGrid Institute was created in 2014 by a consortium of fourteen shareholders from the electrical industry in France (industrialists, institutional players and research & academic organisations). As a centre for research, testing and consulting services relating to technologies for future electricity transmission networks, SuperGrid Institute obtained financial support from the French government's "Investments for the future" programme, the Auvergne Rhône-Alpes region and Greater Lyon. A collaborative research platform that counts 174 people from 28 different countries as part of its team, SuperGrid Institute brings together the complementary skills of academic researchers and engineers from the world of industry. Their work revolves principally around high-voltage direct current and the large-scale integration of renewable energy in order to ensure the stability and security of tomorrow's electricity network.

Press Contact

SuperGrid Institute: Amiel Kaplan, Communications & Training Manager – 06 74 68 76 52- amiel.kaplan@supergrid-institute.com

https://www.supergrid-institute.com