
alگوWatt: Project funded to develop innovative thermal energy storage solutions for intelligent buildings

- **The company will play the role of digital energy solution provider and system integrator in the THUMBS UP project, receiving funding of Euro 275,000 under the Horizon Europe programme**
- **alگوWatt will implement a Smart Building Energy Management System, in a complex project that will include the development of innovative thermal energy storage technologies, with the integration also of a digital twin of the building that will be used for experimentation**

alگوWatt, a GreenTech Company listed on the Euronext Milan market of Borsa Italiana, announces that it has received funding of approximately Euro 275,000 for activities as Digital Energy solution provider and system integrator within the project THUMBS UP "Thermal energy storage solutions to optimally Manage Buildings and Unlock their grid balancing and flexibility Potential", financed with funds from the Horizon Europe programme to achieve high-performance results that will significantly contribute to the development of a sustainable economy in the European Union.

THUMBS UP aims to develop innovative technologies and uses of daily and weekly thermal energy storage systems that can be easily integrated into buildings to increase their energy efficiency and harness the Power-to-Heat (PtH) paradigm, to make buildings key players in the flexibility of the global energy grid. THUMBS UP aims, in this sense, to overcome the limitations of state-of-the-art building-integrated technologies, increasing energy density and reducing the intensity factors of capital investment in this sector.

To capitalise on know-how already available within the consortium, THUMBS UP will promote complementary digital innovations aimed at simulating, optimising and maximising the technical, operational and economic benefits of the proposed solutions, through

- the Smart Building Energy Management System (under alگوWatt) to integrate, control and manage building-level design solutions, maximise the use of local RES, optimise the efficiency of H&C - Heating & Cooling systems and coordinate operation with other building assets and energy demand;
- the Digital Twin to (i) optimise and maximise the energy flexibility and load-shifting benefits that building-integrated solutions provide to the electricity grid (through supply services for heating/cooling and grid in aggregation) and (ii) (for buildings connected to DHN) to coordinate the operation of the solutions with the supply of thermal energy from DHN, reduce peak thermal power and enable a more flexible use of heat.

The THUMBS UP project, with a total duration of 48 months and an investment of approximately Euro 7.6 million (with funding of approximately Euro 6.4 million), is coordinated by Veolia Servicios Lecam Sociedad Anonima Unipersonal (ES) and involves 18 companies, universities and research centres, including the University of Genoa, the University of Messina and the Polytechnic of Turin.

The THUMBS UP project received funding from the European Union's Horizon Europe research and innovation programme under Grant Agreement No. 101096921.

This press release is also available on the Company's website www.algowatt.com and on the regulated information dissemination system 1INFO www.1info.it.

algoWatt (ALW), a *GreenTech solutions company*, designs, develops and integrates solutions for managing energy and natural resources in a sustainable and socially responsible manner. The company provides management and control systems that integrate devices, networks, software and services with a clear sectoral focus: digital energy and utilities, smart cities & enterprises and green mobility. algoWatt was born from the merger of TerniEnergia, a leading company in the renewable energy and environmental industry, and Softeco, an ICT solutions provider with over 40 years of experience for customers operating in the energy, industry and transport sectors. The company, with more than 200 employees in 7 locations in Italy and investments in research and innovation amounting to more than 12% of its turnover, operates with an efficient corporate organisation, focused on its reference markets: Green Energy Utility: renewable energies, digital energy, smart grids; Green Enterprise&City: IoT, data analysis, energy efficiency, building and process automation; Green Mobility: electric, sharing and on demand. Different markets, one focus: sustainability. algoWatt is listed on the Euronext Milan market of Borsa Italiana S.p.A..

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