algoWatt: green light to innovative artificial intelligence solutions for environmental management

- **Developed with the contribution of the internal R&D department two systems based on artificial intelligence for the optimization of production flows and predictive modelling of landfills**
- **The two automated systems were implemented in a biodigester treatment plant in Umbria and in the Monte Scarpino (GE) landfill**

algoWatt, GreenTech Solutions company listed on Borsa Italiana's electronic stock exchange (MTA), announces that it has completed the in-house design and development of innovative software solutions based on artificial intelligence (AI) and predictive models applied to the management of waste management and smart environmental plants, which will be marketed under the umbrella brand "**AI Green**".

The new AI system for the management of biodigesters, both FORSU treatment and agricultural-zootechnical biomass fed and called **AI Green Digesto**, has been developed using the data and production parameters of a plant in operation at Nera Montoro (TR) in Umbria. The AI Green Digesto system of algoWatt is a decision support tool for the plant operator, to make decisions with high efficiency content and with the awareness of the final effect, thanks to simulations and scenarios developed by cognitive computing and machine learning solutions.

The **AI Green Dump** solution has been developed for landfill monitoring by acquisition of chemical and physical parameters, both in real time and from external sources (laboratory analysis, ARPA reports), for predictive leachate modeling downstream of hydrological and weather stress in landfills. As far as the weather is concerned, the system acquires the alert levels issued by CMIR ARPAL.

The innovative artificial intelligence solution has been adopted in the Monte **Scarpino** landfill (Genoa, the highest in Italy). The solution allows the plant's security systems to be activated 72 hours in advance to minimize environmental risks. Moreover, thanks to the machine learning systems, AiGreen Dump is able to improve the prediction of operational scenarios and plant management through the analysis and processing of historical data.

"*In the last 2 years we have completed the transformation of algoWatt into a greentech company that offers solutions for the management of energy and natural resources, with constant attention to investments in research and development* - says the Chairman and CEO of algoWatt, **Stefano Neri** - *The systems implemented in waste treatment plants in Umbria and Liguria have produced two successful cases, which show how artificial intelligence systems make an important technological contribution to better manage operational efficiency and reduce environmental risk, preserving the territory from potential contamination. Thanks to these systems, algoWatt is able to offer the public and private sectors innovative and cutting-edge platforms that are fully eco-sustainable*".

This press release is available on the Company's website www.algowatt.com

algoWatt (ALW), *greentech solutions company,* designs, develops and integrates solutions for energy and natural resource management in a sustainable and socially responsible manner. The Company provides management and control systems that integrate devices, networks, software and services with a clear sector focus: digital energy and utilities, smart cities & enterprises and green mobility. algoWatt is the result of 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 located in 7 locations in Italy and investments in research and innovation for more than 12% of turnover, operates with an efficient corporate organization, focused on the following markets: Green Energy Utility: renewable energy, digital energy, smart grids; Green Enterprise&City: IoT, data analysis, energy efficiency, building and process automation; Green Mobility: electric, shared and on demand. Different markets, a single focus: sustainability. algoWatt is listed on the Mercato Telematico Azionario (MTA) of Borsa Italiana S.p.A..

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