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PED 2014/68/UE

Press Release

ERREDUE WILL BUILD THE PEM ELECTROLYSER WITH A CAPACITY OF 1 MW FOR THE COMPANY FOGLIA UMBERTO SRL, WITHIN THE WASTE DISPOSAL PLANT HUB IN GUGLIONESI, MOLISE REGION.

THE GREEN HYDROGEN PRODUCED WILL BE USED IN DIFFERENT INDUSTRIAL PROCESSES AT THE HUB

- THE VALUE OF THE CONTRACT IS OVER € 1.2 MILLION
- THE 1 MW PEM ELECTROLYSIS PLANT WITH A MAXIMUM PRODUCTION CAPACITY OF 200 NM³/H WILL BE USED IN THE INDUSTRIAL HUB FOR THE PRODUCTION OF GREEN HYDROGEN
- THE HYDROGEN PRODUCED WILL BE TOTALLY USED AS A FUEL FOR THE PRODUCTION OF HEAT TO BE USED IN THE PLANT'S VARIOUS INDUSTRIAL PROCESSES

Livorno, December 13th, 2023 - **ErreDue (EGM: RDUE)**, a company active in the design and production of highly innovative and customised solutions for the on-site production, mixing and purification of technical gases (hydrogen produced through the electrolysis of water, nitrogen, oxygen), announces the signing of an agreement with the company Foglia Umberto Srl for the supply of a 1 MW PEM electrolysis plant, which will be delivered in 2025 and used for the production and storage of green hydrogen to be built within the Waste Treatment Plant Pole of the Guglionesi District, in the Molise Region.

The green hydrogen produced by the PEM electrolyser will be stored and then reused to produce heat for use inside the hub. The electricity needed to work the electrolyser will be provided by an approximately 2 MW photovoltaic plant that will be positioned above the landfill roof. The project will allow the plant hub, and thus the Molise Region, to take on unique characteristics in the national panorama, concentrating in a single site a series of activities that will ambitiously contribute to the country's decarbonisation objective and the achievement of the climate targets set by the European Commission.

The hydrogen production plant supplied by ErreDue consists of an electrolyser with a nominal power of 1 MW and will have a maximum production of 200 Nm³/h for a total of 3,200 MWh/year. The efficiency of the PEM plant will be 53 MWh/tH₂ and the installation of a storage system is also planned in the proximity of the plant, where the hydrogen produced will be stored at the output pressure of the electrolyser (30 bar).

The plant will have an estimated energy consumption of 3,200 MWh, the hydrogen produced will be totally from a renewable source, and the expected annual production quantity is around 60.38 tH₂. The electricity will therefore be totally generated by the photovoltaic system directly connected to the hydrogen production plant. According to the Decree of the Ministry of Ecological Transition of 21/09/2022, if the renewable electricity has a direct connection to the hydrogen production plant, the emission factor is to be considered zero. It follows that, in the proposed project solution, the tonnes of carbon dioxide (tCO₂) emitted will be zero.



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ErreDue, with this contract of over € 1.2 million, is taking part in a highly innovative project in the field of sustainable production processes, which aims to create a production hub in which the economy depends entirely on the energy produced by green hydrogen and no longer on oil and natural gas.

Francesca Barontini, CEO of ErreDue, comments: *“Energy transition is a crucial factor, some countries are almost ready, now finally Italy is also taking the first steps in that direction. We are very pleased to be a partner in this project, which will allow the Molise Region to create a production pole in which the economy will depend on energy produced from renewable sources and green hydrogen. We are convinced that in the coming years Italy will be able to play a key role in encouraging the development of an international hydrogen market, but now more than ever it is essential to have a clear strategic vision and to further stimulate investment in the sector. Its natural geographic location would also allow our country to act as a hub for the transit of green hydrogen, and it is essential to keep up with nations like the United Kingdom, Germany, the Netherlands and the United States that already have well-defined hydrogen programmes. ErreDue, thanks to the know-how we have acquired, is ready to take up the challenge of decarbonisation and contribute to the development of a truly competitive market, also on an international level”.*

This press release is available on the Company's website <https://www.erreduegas.it/> in the Investor Relations section and at www.1info.it.

About ErreDue

ErreDue is a pioneer in zero-emission hydrogen electrolysis, at the forefront of research and development, production and commercialisation of electrolyzers for the on-site generation of clean hydrogen and generators of other technical gases (nitrogen and oxygen) for various industrial applications, laboratory, medical applications and for new applications related to the energy transition such as power-to-gas, sustainable mobility (small hydrogen refuelling stations) and industrial decarbonisation. ErreDue is headquartered in Livorno, Italy, and in 2022 achieved revenues of € 12.3 million, up from the previous year. As of 6 December 2022, ErreDue is listed on the Euronext Growth Milan market organised and managed by Borsa Italiana S.p.A.. For further information: <https://www.erreduegas.it/>

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