

ANSALDO GREEN TECH AND THE UNIVERSITY OF GENOA FOR THE GREEN REVOLUTION

The "Nemesi" project for hydrogen research funded by the PNRR at the start

Genoa, 23 February 2023 - Ansaldo Green Tech and the University of Genoa have formalized - with the signing of the concession decree - their commitment to the NEMESI project (New Electrodes and Membranes for Electrolysers on an Industrial Scale), presented in May 2022 as part of the Mission 2 "Green Revolution and Ecological Transition", Component 2 "Renewable Energy, Hydrogen, Grid and Sustainable Mobility", Investment 3.5 "Research and Development on Hydrogen" of the National Recovery and Resilience Plan.

The project, developed by Ansaldo Green Tech with the scientific contribution of the Department of Civil, Chemical and Environmental Engineering (DICCA) of the Polytechnic School of the University of Genoa, aims to develop innovative electrodes and membranes to produce hydrogen in electrolysers of industrial size based on AEM (Anion Exchange Membrane) technology. The project recipient of the funding has a value of 4 million euros which will be allocated to development activities and the setting up of new laboratories at the manufacturing headquarters of Ansaldo Energia Group and at the University, where the experimental components will be manufactured and tested.

"This project marks the return of Ansaldo Energia Group to the development of electrochemical components, after the previous experience of Ansaldo Fuel Cell," says **Daniela Gentile**, CEO of Ansaldo Green Tech. "Nemesi represents for Ansaldo Green Tech the first step on the path to becoming, within a few years, *Original Equipment Manufacturer* in the electrolysis sector".

"The 2030 Agenda requires prompt and effective actions in favor of the ecological transition. The joint commitment of Ansaldo Green Tech and the University of Genoa represents a concrete signal in this direction, while being a successful example of research-industry synergy" declares **Federico Delfino**, Chancellor of the University of Genoa. "Our university is sensitive to the issues of renewable energy and, in general, sustainability, dedicating them great attention in training, research and third mission activities".

"Compared to more traditional technologies, AEM electrolysers significantly reduce the use of critical materials such as platinum and iridium, thus resulting potentially more competitive, and, not working in an alkaline environment, even safer and more environmentally friendly, - argues **Ombretta Paladino**, scientific director of the University project. "The project is based on the integration of applied research activities through the development and testing of new materials and the design and achievement of scale-up oriented experimental campaigns on test stations of different sizes created within the laboratories".

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