

NEXTCHEM (MAIRE) TO DEVELOP ITS NEW “E-FACTORY FOR CARBON-NEUTRAL CHEMISTRY” THANKS TO ITS OWN TECHNOLOGIES AND EXPERTISE POWERED BY THE AGREEMENT SIGNED WITH NEWCLEO TO SECURE THEIR SMALL MODULAR GENERATION IV REACTOR (SMR) ON AN EXCLUSIVE BASIS FOR THE CHEMICAL SECTOR

- NextChem through its subsidiary NextChem Tech to develop the first conceptual study for carbon-neutral hydrogen production by electrolysis, powered on an exclusive basis by innovative *newcleo*'s generation IV small-scale modular reactor (SMR)
- Additionally, Tecnimont to provide high-level consultancy services for *newcleo*'s future implementation of a power plant based on its own SMR technology
- NextChem Tech's new model for the “e-Factory for Chemistry” will contribute to accelerate the decarbonization of the industry producing carbon-neutral chemicals and e-fuels

Milan, 10 January 2024 – **MAIRE (MAIRE.MI)** announces that **NEXTCHEM** (Sustainable Technology Solutions BU), through its subsidiary NextChem Tech, thanks to its expertise in chemistry and electrochemistry, has launched a new model for “**e-Factory for carbon-neutral Chemistry**”. This model is powered by the signature of a cooperation agreement with *newcleo* to develop, on an exclusive basis, a conceptual study for carbon-neutral hydrogen production thanks to an innovative clean and safe nuclear technology.

Additionally, **Tecnimont** (Integrated E&C Solutions BU) will provide high-level consultancy services for *newcleo*'s plan for the implementation of an innovative power plant based on *newcleo*'s LFR-AS-200 technology, a Small Modular Lead-cooled Fast Reactor fueled with MOX fuel thanks to Tecnimont's state-of-the-art modularization approach to optimize construction and planning methodology, reducing time and costs.

This approach will enable the production of electrolytic hydrogen and sustainable chemicals including carbon-neutral ammonia, methanol, e-fuels and derivatives, in line with the recent European Union's decision to include innovative Gen-IV nuclear technology like the *newcleo* one within the perimeter of EU Taxonomy of environmentally sustainable economic activities.

Alessandro Bernini, MAIRE CEO, commented: “With this agreement, MAIRE confirms its commitment to foster decarbonization and green chemistry through a wide range of technological solutions. By creating carbon-neutral chemistry models based on safe, reliable and competitive energy supply, we will accelerate the industrialization of the energy transition.”

MAIRE S.p.A. leads a technology and engineering group that develops and implements innovative solutions to enable the Energy Transition. We offer Sustainable Technology Solutions and Integrated E&C Solutions in nitrogen fertilizers, hydrogen, circular carbon, fuels, chemicals, and polymers. MAIRE creates value in 45 countries and relies on over 7,000 employees, supported by over 20,000 people engaged in its projects worldwide. MAIRE is listed on the Milan Stock Exchange (ticker "**MAIRE**").

For further information: www.mairetecnimont.com.

About newcleo newcleo was launched in 2021 to be a nuclear energy innovator. newcleo is working to design and deliver Generation IV Small Modular Lead Cooled Fast Reactors using MOX fuel, addressing equally well the three challenges affecting the nuclear industry to date:

- **Waste:** fast reactors can recycle current nuclear industry by-products, enhancing sustainability.
- **Safety:** lead properties together with newcleo's provisions ensure very high levels of safety.
- **Cost** are kept low by means of simplicity, compactness, modularity, and efficiency.

Counting around 600 highly skilled employees across Europe, newcleo has business, scientific, operations and industrial manufacturing capabilities in a vertically integrated model designed to deliver its ambitious timeline.

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