



NAAREA and Assystem announce cooperation on the XSMR, a new micro-nuclear power plant

Paris, 2 December 2021 - NAAREA, a French deeptech pioneer in 4th generation micro-nuclear power, and Assystem, an independent international engineering group, have signed a cooperation agreement to build an ultra-compact micro-nuclear power generator, the XSMR.

Assystem will provide project management, permitting, integration and engineering services. Assystem will provide NAAREA with its historical experience in the nuclear sector as well as its expertise in digital engineering aimed at better controlling the complexity of projects through the management and use of industrial data.

Assystem will develop a digital twin of the reactor to model and simulate its behavior. This twin will enable rapid convergence towards the optimal design, provide critical elements for validating the design and enable the rapid launch of the construction of the physical prototype. In addition, Assystem will draw on its knowledge of highly regulated environments, to support NAAREA in the development of this new technology in compliance with the nuclear normative framework.

Jean-Luc Alexandre, co-founder of NAAREA said: "The agreement we are signing with Assystem today is the concrete realisation of a collaboration that has been underway for several months and is already bearing fruit. It is a fundamental step in the progress of the NAAREA project, alongside a reference player who supports and adheres to our desire to participate in the sustainable transformation of our societies by mobilising consciences around this equitable ideal.

Stéphane Aubarbier, COO of Assystem said: "We are delighted to formalise our commitment to NAAREA and to support this innovative and disruptive project. Assystem's mission is to develop decarbonised sources of electricity production throughout the world to combat climate change. As such, Advanced Modular Reactors represent an additional technology alongside high power reactors, SMRs and renewable energies to accelerate the energy transition. We are proud to provide NAAREA with our nuclear and digital expertise to support its growth."

It is within this framework that the deeptech has created the XSMR (eXtra Small Modular Reactor), an ultra-compact, 1 to 40 megawatt micro power plant that uses the untapped potential of used radioactive materials, and thorium, an unused mining reject.

NAAREA expects the first units to be produced by 2030.

About NAAREA

NAAREA is a pioneer in fourth-generation micro-nuclear power and the inventor of the XSMR. Through science and innovation, NAAREA is contributing to the advent of a safe, decarbonised, circular, non-



intermittent, decentralised and economical energy solution produced from industrial waste, which broadens the scope of renewable energy.

Its project is based on the conviction that the climate is our heritage and that in order to protect our planet and our species, a major mutation is necessary to break the energy deadlock, achieve the ecological transition on a collective scale and reach a fair and shared abundance. To achieve this, decarbonised energy that is accessible to all is the main vector, as it has a positive impact on all human activities and contributes to the achievement of the 17 United Nations Sustainable Development Goals.

NAAREA's vocation is to participate in the sustainable transformation of our societies on a global scale by relying on communities and mobilising awareness around this equitable ideal.

NAAREA participates in the development of a citizen and stimulating ecology, to increase the resilience of territories, reform the economy, encourage new generations of entrepreneurs, and broaden the field of possibilities.

For more information: www.naarea.fr

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About Assystem

Assystem is an international engineering group. At the heart of industry for over 50 years, the Group supports its customers in managing their industrial investments throughout their life cycle. Assystem S.A. is listed on Euronext Paris. More information on www.assystem.com / Follow Assystem on Twitter: @Assystem. More information on www.assystem.com - Follow Assystem on Twitter: @Assystem

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