Clean electricity bucharest

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Building on over a quarter century of Romania"s safe and secure nuclear power plant operation experience, this leading edge SMR project will replace a former coal plant in Doicesti with clean, carbon-free power, create jobs, spur economic growth, and help establish Romania as a clean energy leader in the region.

The United States is committed to supporting the use of advanced nuclear technologies to power global decarbonization efforts and provide energy security to partners around the world.

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Control room simulator demonstrates U.S.-Romanian collaboration and supports capacity building for the Romanian nuclear workforce as NuScale and RoPower advance site preparation for a VOYGR™ power plant in Doicesti, Romania

"NuScale’s SMR nuclear technology is the premier global clean energy solution and can help advance Romania’s position as a leader in the secure and safe deployment of SMRs," said John Hopkins, NuScale President and Chief Executive Officer. "With the support of the DOS under the FIRST program, we are thrilled to hit another milestone in this remarkable collaboration among our countries and organizations. We look forward to supporting the next generation of clean energy leaders across the region and around the globe."

The E2 Center was funded by the U.S. Department of State (DOS) under the Foundational Infrastructure for the Responsible Use of Small Modular Reactor Technology (FIRST) program. FIRST supports partner countries in advancing their nuclear energy programs to meet their clean energy goals under the highest international standards for nuclear safety, security, and nonproliferation.

"The SMR project at Doicesti, which this E2 Center supports, will showcase Romanian leadership in energy innovation, accelerate the clean energy transition, create thousands of jobs in Romania and the U.S., and strengthen European energy security while upholding the highest standards for nuclear safety, security, and nonproliferation," said Ann Ganzer, Principal Deputy Assistant Secretary, Bureau of International Security and Nonproliferation.

This announcement builds upon NuScale Power and Nuclearelectrica’s teaming agreementsigned in 2021 to deploy a 462 MWe NuScale VOYGR™-6 power plant in Romania by the end of the decade. Earlier this year, NuScale and RoPower Nuclear S.A. (RoPower), owned in equal shares by Nuclearelectrica and Nova Power & Gas S.A., commenced front-end engineering and design workfor a site in Doicesti, Romania, the preferred location for the deployment of the VOYGR power plant.

Romania has the potential to be one of the first deployments of an SMR in Europe and to become a catalyst for SMRs in the region by serving as a base for supporting operations of this new technology in other countries, as well as the production and assembly of plant components.

The E2 Center is an innovative learning environment that offers users a hands-on opportunity to apply nuclear science and engineering principles through simulated, real-world nuclear power plant operation scenarios. The E2 Center employs state-of-the-art computer modeling to simulate a NuScale VOYGR SMR power plant control room. Users have the opportunity to take on the role of a "Control Room Operator" at a VOYGR plant to learn about the advanced operational and safety features unique to NuScale’s technology.

The University Politehnica of Bucharest is one of the elite schools of the Romanian higher education system. The school was established in 1950, and offers highly appreciated academic studies and programs for more than 2,000 students a year.

As the first and only SMR to have its design certified by the U.S. Nuclear Regulatory Commission, NuScale is well-positioned to serve diverse customers across the world by supplying nuclear energy for electrical generation, district heating, desalination, commercial-scale hydrogen production, and other process heat applications.

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