



NANO Nuclear Energy Establishes Specialized Facility in New York State to Demonstrate Key Components of its Nuclear Microreactor Designs

February 4, 2025

New York, N.Y., Feb. 04, 2025 (GLOBE NEWSWIRE) -- NANO Nuclear Energy Inc. (NASDAQ: NNE) ("NANO Nuclear" or "the Company"), a leading advanced nuclear energy and technology company focused on developing clean energy solutions, today announced that it is establishing a purpose-built demonstration facility in Westchester County, New York to be used to demonstrate the operation and viability of several non-nuclear parts and components of NANO Nuclear's four nuclear microreactors in development: **ZEUS™**, **ODIN™**, **LOKI MMR™** and **KRONOS MMR™**.



Figure 1 – Image of Exterior of NANO Nuclear's New Advanced Demonstration Facility for Key Components of its Nuclear Microreactor Designs in Westchester County, NY

The facility will also support ongoing work on NANO Nuclear's **SBIR Phase III project for its Annular Linear Induction Pump (ALIP) technology**. ALIP addresses challenges in high-efficiency thermal fluid management for clean energy and high-temperature industrial processes and is based on electromagnetic (rather than mechanical) pumps. A key enabling technology for NANO Nuclear's suite of nuclear microreactors, ALIP is being further developed under the SBIR Phase III project to accelerate the transition from research to practical products and services.

"This advanced facility, will play a major role in our development efforts, providing our technical teams with access to key physical data. We plan to announce timely updates throughout the year on certain key research and developmental milestones," **said Jay Yu, Founder and Chairman of NANO Nuclear Energy**. "The facility will also be used to advance commercialization efforts surrounding our ALIP technology, which could have a significant impact on the wider nuclear energy sector in addition to being a key enabling technology for our own, proprietary suite of microreactor technologies."



Figure 2 – Image of NANO Nuclear’s Management and Technical teams at the Company’s New Advanced Demonstration Facility for Key Components of its Nuclear Microreactor Designs in Westchester County, New York

The expansion of NANO Nuclear’s operations in New York State follows its December 17, 2024 response to a **New York State Energy Research and Development Authority (NYSERDA)** Request for Information (RFI) concerning the development of advanced nuclear energy technologies in New York State. The demonstration facility will enhance NANO Nuclear’s ability to support the New York’s pursuit of cost-effective alternatives to heavily polluting carbon-based energy sources and intermittent options such as wind or solar. The facility is in the final stages of retrofitting and is expected to be operational this spring.

“We are excited to announce this additional significant milestone to our journey as a company and the advancement of our technology,” said **James Walker, Chief Executive Officer and Head of Reactor Development of NANO Nuclear Energy**. “Once operational, the facility will provide our technical teams with invaluable opportunities to gather physical data and optimize designs to integrate non-nuclear components effectively. This is a critical step in accelerating our reactor development and ensuring the seamless integration of all components in the final product.”

Onsite attendance at NANO Nuclear Energy’s specialized facility in New York State:

- Jay Yu, Founder and Chairman
- James Walker, CEO & Head of Reactor Development
- Professor Ian Farnan, Lead of Nuclear Fuel Cycle, Radiation and Materials
- Professor Massimiliano Fratoni, Senior Director and Head of Reactor Design
- Professor Peter Hosemann, Head of Nuclear Reactor Design and Materials
- Carlos O. Maidana, Ph.D., MBA, Head of Thermal Hydraulics and Space Program
- John G. Vonglis, Executive Director of Global Government Affairs
- Michael Norato, Ph.D., Director of Nuclear Facilities and Infrastructure
- David Tiktinsky, Head of Nuclear Regulatory Licensing
- Eric R. Oesterle, Head of Microreactor Regulatory Licensing
- Oscar Leandro, MBA, VP of International Business
- Ross Mitchell, Nuclear Engineer and Project Manager
- Michael Lim, Manufacturing and Operations Manager

- Josey Anna Widhalm, Office Director & Marketing Manager

About NANO Nuclear Energy, Inc.

NANO Nuclear Energy Inc. (NASDAQ: NNE) is an advanced technology-driven nuclear energy company seeking to become a commercially focused, diversified, and vertically integrated company across five business lines: (i) cutting edge portable and other microreactor technologies, (ii) nuclear fuel fabrication, (iii) nuclear fuel transportation, (iv) nuclear applications for space and (v) nuclear industry consulting services. NANO Nuclear believes it is the first portable nuclear microreactor company to be listed publicly in the U.S.

Led by a world-class nuclear engineering team, NANO Nuclear's reactor products in development include **"ZEUS", a solid core battery reactor**, and **"ODIN", a low-pressure coolant reactor**, each representing advanced developments in clean energy solutions that are portable, on-demand capable, advanced nuclear microreactors. NANO Nuclear is also developing patented stationary **KRONOS MMR™ Energy System** and space focused, portable **LOKI MMR™**.

Advanced Fuel Transportation Inc. (AFT), a NANO Nuclear subsidiary, is led by former executives from the largest transportation company in the world aiming to build a North American transportation company that will provide commercial quantities of HALEU fuel to small modular reactors, microreactor companies, national laboratories, military, and DOE programs. Through NANO Nuclear, AFT is the exclusive licensee of a patented high-capacity HALEU fuel transportation basket developed by three major U.S. national nuclear laboratories and funded by the Department of Energy. Assuming development and commercialization, AFT is expected to form part of the only vertically integrated nuclear fuel business of its kind in North America.

HALEU Energy Fuel Inc. (HEF), a NANO Nuclear subsidiary, is focusing on the future development of a domestic source for a High-Assay, Low-Enriched Uranium (HALEU) fuel fabrication pipeline for NANO Nuclear's own microreactors as well as the broader advanced nuclear reactor industry.

NANO Nuclear Space Inc. (NNS), a NANO Nuclear subsidiary, is exploring the potential commercial applications of NANO Nuclear's developing micronuclear reactor technology in space. NNS is focusing on applications such as the LOKI MMR™ system and other power systems for extraterrestrial projects and human sustaining environments, and potentially propulsion technology for long haul space missions. NNS' initial focus will be on cis-lunar applications, referring to uses in the space region extending from Earth to the area surrounding the Moon's surface.

For more corporate information please visit: <https://NanoNuclearEnergy.com/>

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Cautionary Note Regarding Forward Looking Statements

This news release and statements of NANO Nuclear's management in connection with this news release contain or may contain "forward-looking statements" within the meaning of Section 21E of the Securities Exchange Act of 1934, as amended, and the Private Securities Litigation Reform Act of 1995. In this context, forward-looking statements mean statements related to future events, which may impact our expected future business and financial performance, and often contain words such as "expects", "anticipates", "intends", "plans", "believes", "potential", "will", "should", "could", "would" or "may" and other words of similar meaning. In this press release, forward-looking statements include those relating to the anticipated benefits and the timing for commencement of operations at the Company's new demonstration facility as described herein. These and other forward-looking statements are based on information available to us as of the date of this news release and represent management's current views and assumptions. Forward-looking statements are not guarantees of future performance, events or results and involve significant known and unknown risks, uncertainties and other factors, which may be beyond our control. For NANO Nuclear, particular risks and uncertainties that could cause our actual future results to differ materially from those expressed in our forward-looking statements include but are not limited to the following: (i) risks related to our U.S. Department of Energy ("DOE") or related state or non-U.S. nuclear fuel licensing submissions, (ii) risks related to the development of new or advanced technology and the acquisition of complimentary technology or businesses, including difficulties with design and testing, cost overruns, regulatory delays, integration issues and the development of competitive technology, (iii) our ability to obtain contracts and funding to be able to continue operations, (iv) risks related to uncertainty regarding our ability to technologically develop and commercially deploy a competitive advanced nuclear reactor or other technology in the timelines we anticipate, if ever, (v) risks related to the impact of U.S. and non-U.S. government regulation, policies and licensing requirements, including by the DOE and the U.S. Nuclear Regulatory Commission, including those associated with the recently enacted ADVANCE Act, and (vi) similar risks and uncertainties associated with the operating an early stage business a highly regulated and rapidly evolving industry. Readers are cautioned not to place undue reliance on these forward-looking statements, which apply only as of the date of this news release. These factors may not constitute all factors that could cause actual results to differ from those discussed in any forward-looking statement, and NANO Nuclear therefore encourages investors to review other factors that may affect future results in its filings with the SEC, which are available for review at www.sec.gov and at <https://ir.nanonuclearenergy.com/financial-information/sec-filings>. Accordingly, forward-looking statements should not be relied upon as a predictor of actual results. We do not undertake to update our forward-looking statements to reflect events or circumstances that may arise after the date of this news release, except as required by law.

Attachment

- [Figure 2](#)



Figure 2



Image of NANO Nuclear's Management and Technical teams at the Company's New Advanced Demonstration Facility for Key Components of its Nuclear Microreactor Designs in Westchester County, New York

Source: NANO Nuclear Energy Inc.