

# X-energy and Kinectrics Sign MOU to Support Establishment of Helius Clean Energy Innovation Centre

TORONTO, ONTARIO, CANADA, October 21, 2021 /EINPresswire.com/ -- X-energy and Kinectrics have signed a Memorandum of Understanding (MOU) to support the establishment of Helius, a clean energy innovation centre, in Canada. The first-of-a-kind campus will provide testing facilities for systems and components of the [Xe-100](#) small modular reactor (SMR) and other High-Temperature Gas-cooled Reactor (HTGR) technology that will prove instrumental in the global fight against climate change.

Envisioned as a collaborative research hub bringing together clean energy technology developers, academia, industry and other key stakeholders, Helius will support thermal hydraulic testing; materials testing and qualification; component functional or performance testing; and other related activities. The world-class facility will also house equipment enabling research and development and will come with extensive capabilities to demonstrate proof of concept for SMR viability in non-electrical market applications.

"Helius will provide critical infrastructure for our plans to net-zero," said Katherine Moshonas Cole, President of X-energy Canada. "As well as testing our Xe-100's systems and components in helium and high-temperature environments, the facility will also enable us to demonstrate the use of our reactor's high temperature steam for hydrogen production and direct industrial uses. These capabilities are integral to Canada's transition to a clean energy future."

Based in Toronto, Canada, Kinectrics is the category leader in providing life cycle management services for the electricity industry. Backed by an award-winning team of more than 1,100 engineers and technical experts, the company provides unparalleled nuclear services to clients worldwide.



(Left-right) Steve Miller, Senior Vice President & General Counsel, X-energy; David Harris, President & CEO, Kinectrics; and Katherine Moshonas Cole, President, X-energy Canada at the Helius MOU signing, Toronto

Kinectrics is the supplier of choice for execution of X-energy's test program. X-energy and Kinectrics recently [signed a collaboration agreement](#) to advance the design and deployment of the Xe-100 SMR in Canada, the United States and worldwide. Kinectrics has been instrumental to X-energy's progress in the Canadian Nuclear Safety Commission's (CNSC) [Pre-Licensing Vendor Design Review](#) (VDR).

The MOU builds on this partnership, advancing efforts to establish the infrastructure required to develop, test and commercialize clean energy technologies, such as the Xe-100.

"Kinectrics is excited to be leading the way in supporting the development, testing of SMRs, providing the critical infrastructure required to accelerate their introduction around the world. This initiative will help to create long-term jobs in Ontario," said David Harris, President and CEO of Kinectrics. "The commitment of X-energy to support Helius is an important step in anchoring a strong, sustainable, highly-trained workforce, build technical expertise and provide tangible results for the deployment of clean energy technology around the world."

The Xe-100 is the catalyst to the world's net-zero future. The Generation IV advanced reactor design builds on decades of HTGR operation, research, and development. It is designed to operate as a standard 320 MWe four-pack power plant or be scaled in units of 80 MWe, as needed. The SMR is engineered to deliver reliable and load-following grid-scale power to electricity systems, pairing seamlessly with renewables. At 200 MWt of 565°C steam, the Xe-100 is also ideal for heavy industry, mining, petrochemical and other power applications.

Additional Links:

Helius - Kinectrics Clean Energy Innovation Centre

(<https://www.kinectrics.com/spotlight/Pages/Helius.aspx>)

X-energy Canada Video – The Future is Now (<https://x-energy.com/video/the-future-is-now>)

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