

Nuclear Energy Opportunities in Saskatchewan



Nuclear Energy

Saskatchewan can sustainably fuel growing global demand for clean energy with the world's highest grade uranium deposits, a robust mining sector, supportive government policy, advanced research capacity, skilled labour development and growing demand for both grid-scale and industrial nuclear applications.

Investment Climate

- The Government of Saskatchewan is committed to building a provincial electricity system powered by nuclear energy. [Saskatchewan's Growth Plan](#) and the [Saskatchewan First Energy Security Strategy and Supply Plan](#) include important commitments to develop nuclear power generation in the province.

SaskPower

- [SaskPower](#), the province's Crown utility responsible for electricity generation, is advancing the development of small modular reactors (SMRs) and large reactors in the province.
- SaskPower selected the GE Vernova Hitachi BWRX-300 SMR for potential use on the grid by the mid-2030s. SaskPower has identified two potential sites near Estevan to host the province's first SMR and expects to make a final site selection in 2026.
- SaskPower is also currently evaluating large nuclear reactor technologies for potential use in the province.
- SaskPower has created a subsidiary, SaskNuclear, to advance its nuclear projects through the regulatory and licensing process.



Research and Training

- The [Saskatchewan Research Council](#) has significant experience in nuclear and uranium research and operated a SLOWPOKE-2 research reactor for 38 years.
- Saskatchewan's post-secondary institutions have a rich history of nuclear research and development including materials and fuels, radiation science, engineering, medical applications, technology testing, and policy development.
- The [Sylvia Fedoruk Canadian Centre for Nuclear Innovation](#) in Saskatoon and the province's academic institutions continue to support work in nuclear medicine and energy.

- Supported by a \$4 million investment from SaskPower, the University of Regina is developing western Canada's first SMR Safety, Licensing, and Testing Centre, strengthening research and learning opportunities for students, academics, and professionals.
- SaskPower is also investing \$6.3 million during the next six years to establish four new nuclear research chairs at post-secondary institutions in the province.
- Education and training programs at high school and post-secondary levels are expanding to help create a local nuclear workforce.
- SMRs can provide low-carbon electricity and industrial process heat for energy-intensive facilities, including mining, manufacturing and other large industrial operations.
- Communities and mines in northern Saskatchewan connected via long transmission lines are susceptible to outages and could be attractive locations for micro-SMRs to provide electricity and heat. Reliable electricity and heat could have catalytic impacts for new economic development opportunities in northern Saskatchewan.
- Saskatchewan's rich uranium reserves coupled with a growing demand in nuclear power nationally and internationally present unique opportunities for adding value to the uranium supply chain in Saskatchewan.

Supply Chain

- The [Saskatchewan Industrial and Mining Suppliers Association](#) is working to help its members gain accreditation and participate in the opportunities that nuclear projects will provide in Saskatchewan, Canada, and globally.

Potential Opportunities

- SaskPower uses a competitive bidding process to procure goods and services. Information about doing business with SaskPower can be found here: saskpower.com/about-us/for-our-suppliers/supplier-resources
- Saskatchewan has a large energy-intensive industrial base in the mining, oil and gas, and manufacturing sectors that could purchase combined clean heat and power from an experienced nuclear operator.

For more information, contact:

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