



## Nuclear Energy

The global market for small modular reactors (SMRs) is expected to reach CAD\$150 billion per year between 2030 and 2040. Saskatchewan has what the world needs to become a leader in this space – technical expertise in mining and nuclear research, a large industrial base, a favourable business environment, world-renowned uranium reserves and an existing supply chain supported by established uranium, minerals, and oil and gas industries in the province.

## Investment Climate

- The Government of Saskatchewan has committed to advancing the development of SMRs in Saskatchewan's Growth Plan to promote economic growth and reduce greenhouse gas emissions.
- [SaskPower](#), the province's Crown utility responsible for electricity generation, is considering replacing most of its fossil fuel-generated electricity with emissions-free electricity sources that include SMRs.
- SaskPower has selected the 300 MW GE-Hitachi BWRX-300 technology for potential use on the grid, and is exploring the option of advanced reactors for co-generation to provide industrial heat.
- If approved, the first BWRX-300 SMR would be deployed in the mid-2030s, with the potential for up to three additional units to be built in Saskatchewan.
- [Saskatchewan Research Council \(SRC\)](#) has partnered with Westinghouse Electric Canada to advance a 5 MW eVinci micro-SMR for research and industrial purposes.
- SRC has significant experience in nuclear and uranium research and operated a SLOWPOKE-2 research reactor for 38 years.
- Saskatchewan has a rich history of nuclear research and development. [The Sylvia Fedoruk Canadian Centre for Nuclear Innovation](#) in Saskatoon and the province's academic institutions host research expertise in nuclear medicine and energy.
- The [Saskatchewan Industrial and Mining Suppliers Association](#) is working to help its members qualify and participate in the opportunities that SMRs will provide in Saskatchewan, Canada, and globally.
- The [Canadian Nuclear Safety Commission](#) is an experienced, world-class regulator that is prepared to regulate SMRs and micro-SMRs.

## Potential Opportunities

- SaskPower uses a competitive bidding process to procure goods and services. Information about doing business with SaskPower can be found here: [www.saskpower.com/about-us/For-Our-Suppliers/Supplier-Resources/](http://www.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.
- SMRs are an economically competitive option to reduce emissions via co-generation, either through converting existing grid-connected co-generation plants or building plants at new or existing industrial sites.
- 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.

For more information, contact:

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