

GLOBAL FIRST POWER

MICRO MODULAR REACTOR PROJECT AT CHALK RIVER

PROJECT UPDATE - DECEMBER 2020

Global First Power (GFP) is a joint venture partnership between Ontario Power Generation (OPG) and USNC Power Ltd., a wholly owned Canadian subsidiary of Ultra Safe Nuclear Corporation (USNC). Through the partnership, GFP proposes to construct, own and operate Canada's first small modular reactor, a USNC-designed Micro Modular Reactor™ (MMR™) at Chalk River Laboratories (the Project), a site owned by Atomic Energy of Canada Limited (AECL) and managed by Canadian Nuclear Laboratories (CNL).

The MMR is a 15 megawatt (MW) thermal (approximately 5 MW electrical) reactor. The Project will generate low-carbon, reliable energy for use in remote industrial applications (like mining or heavy industry). The facility encompassing the reactor does not require connection to the electricity grid meaning it can easily serve remote locations and help reduce the use of fossil fuels as an energy source. The Project at Chalk River will serve as a commercial demonstration to show how this advanced energy technology can be part of the solution to support Canada's climate change goals.

What are Small Modular Reactors (SMRs)?

SMRs are a type of nuclear reactor designed to be smaller in size than a traditional reactor yet still offer low-carbon, reliable energy. SMRs:

- Are a source of low-carbon energy
- Feature advanced safety enhancements
- Require a smaller land use footprint than a traditional reactor
- Can meet the electricity requirements of a diverse market (from less than 1 megawatt to approximately 300 megawatts)
- Can be factory constructed
- Can provide energy to remote communities and industrial sites not connected to the electricity grid



The Chalk River Laboratories site

What's New?

In July 2020, GFP appointed a new Board of Directors and President & Chief Executive Officer to complement and strengthen the existing team. In November 2020, GFP signed a Project Host Agreement with CNL that outlines the framework for hosting the Project at the Chalk River site. Consideration of siting alternatives has led to the identification of a preferred location on the Chalk River site, highlighted in blue in the photo above.



Indigenous and Public Engagement

GFP is committed to engaging with all parties interested in the Project – your input and participation is encouraged and welcomed. We appreciate the feedback we've already received from numerous Indigenous communities, members of the local community, and municipal representatives. We were encouraged by the large turnout for our [Telephone Town Hall](#) held in May, where we were able to share Project information and respond to your questions. We look forward to 2021 when we will host more virtual engagement events to provide you with opportunities to share your thoughts and perspectives, while ensuring public health guidelines for safety are met. Stay tuned for more detail on these in early 2021.

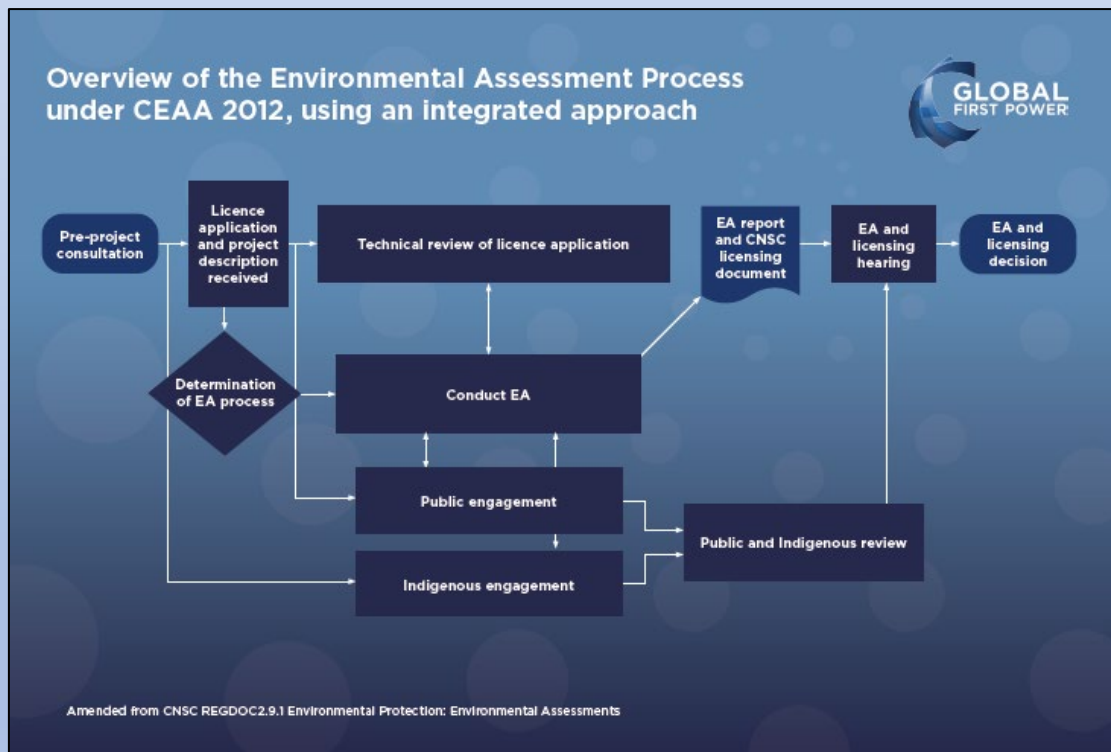
Environmental Assessment

The Canadian Nuclear Safety Commission (CNSC) has outlined the factors to be considered in the Environmental Assessment (EA) for the MMR Project to be conducted under the *Canadian Environmental Assessment Act, 2012*. You can read their record of decision [here](#).

GFP has retained Calian Group Ltd., supported by a group of specialists with extensive experience conducting nuclear EAs, to carry out environmental studies in support of the EA for the Project. A schedule of the primary steps in the EA process is found below.

Much is already known about the Chalk River site, but some additional studies are underway in order to better understand the existing physical, biological, socio-economic and cultural environment where the Project will be located. For example, a geophysics investigation was recently completed providing GFP with additional data.

We look forward to engaging with you on the Project in 2021, to share information and seek your input on the Project and the EA approach.



Get in touch! We welcome your questions, comments and feedback.



Email: info@globalfirstpower.com



Phone: 1-800-892-9504



Website: www.globalfirstpower.com



Twitter: [@Global1stPower](https://twitter.com/Global1stPower)

