

Global First Power Micro Modular Reactor® Project at Chalk River - Frequently Asked Questions and Answers

Who Is GFP?

Global First Power Limited Partnership (GFP) is a joint venture between Global First Power Limited, Ontario Power Generation (OPG) and USNC-Power, a wholly owned Canadian subsidiary of Ultra Safe Nuclear Corporation (USNC). GFP is proposing to construct, own and operate Canada's first small modular reactor, a UNSC-designed Micro Modular Reactor® (MMR). This project will be located in Chalk River, Ontario.

What is the Project?

GFP proposes to construct, own and operate Canada's first SMR, a Micro Modular Reactor® (MMR®), designed by USNC and situated at the Chalk River Site. This will be a demonstration Project and will involve the preparation of a suitable site, construction of one MMR and supporting infrastructure. The MMR is a 15 megawatt (MW) thermal (approximately 5 MW electrical) reactor. The Project will generate low carbon, clean reliable energy. An Environmental Assessment (EA) is underway to determine any potential effects to the environment from the Project.

Here is a link to a short, informative [video](#) on SMR technology.

What is the lifespan of the MMR?

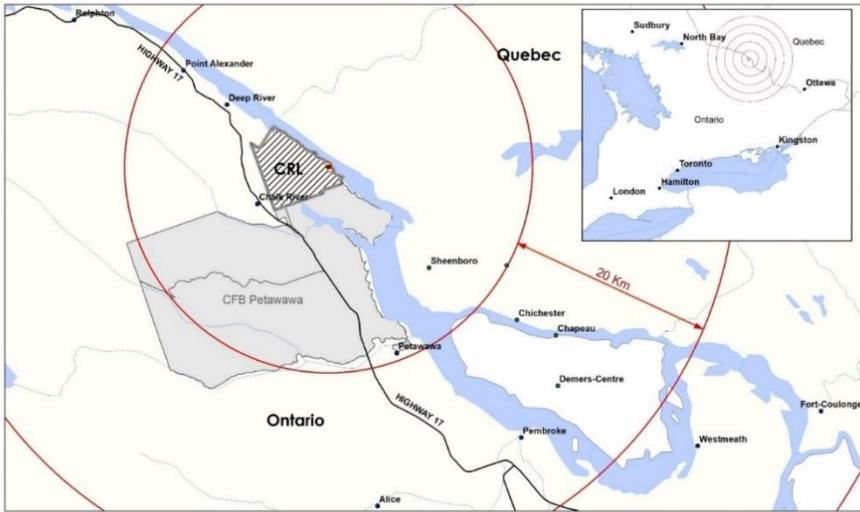
The MMR is designed for a 20-year operating life with no need for refueling.

What is the Project Timeline?

GFP has commenced the Environmental Assessment (EA) studies and are preparing the Environmental Impact Statement (EIS). GFP is looking to site the SMR at Chalk River by 2026. Integral to this schedule is ongoing Indigenous and public engagement.

Where is the Project taking place?

The Project will be located on the Chalk River site, which is Federal land owned by Atomic Energy of Canada Limited (AECL), in Renfrew County, Ontario, on the southwest shore of the Ottawa River.



Why was the Chalk River site chosen for this Project?

The Chalk River site is home to Canadian Nuclear Laboratories (CNL) which is Canada's national nuclear laboratory, and home to a significant breadth of experience, capabilities and unique facilities to conduct nuclear research. CNL has established an SMR program in which they seek to advance Canada's SMR industry by hosting a demonstration unit on the CNL-managed site, and through application of their skills and capabilities on commercial terms for SMR vendors.

Co-locating a new reactor with a full-service laboratory, including fuel and materials labs, security and a clean energy park could provide distinct advantages for SMR developers as they progress their demonstration projects. For decades, the Chalk River site has hosted many nuclear projects and activities that provide precedents for developing technology and collecting data that is relevant to licensing and building a demonstration reactor.

What is the approvals process?

In 2019 the application for a Licence to Prepare Site and the Project Description were submitted with the Canadian Nuclear Safety Commission (CNSC).

The EA process under the *Canadian Environmental Assessment Act (CEAA 2012)* was initiated in 2019 after review of GFP's Project Description by the CNSC.

The EA will be completed by GFP (the proponent) who is supported by a team of experienced consultants who will ensure that thorough studies and consultation take place and regulatory requirements are met.



