

Virtual Open House Transcript

Slide 1:

Welcome to the fall 2021 virtual open house for Global First Power's Micro Modular Reactor® at Chalk River Project. Thank you for joining us. My name is Eric McGoey; I'm the Director of Communications and Engagement for Global First Power (or GFP).

Navigating the Virtual Open House

This presentation provides information and an update on the Project and its environmental assessment process. You can pause or stop the presentation at any time.

Along with this presentation, supplemental materials are available to be viewed or downloaded from the virtual open house website at www.gfpcleanenergy.com including:

- The [audio-video version](#) of this presentation
- A [copy of the slides](#) shown in this presentation, and a transcript of this presentation (with French translation available for both the transcript and the slides).
- This site – the virtual open house site - also provides links to a [comment form](#), previous open house presentations from spring 2021, contact information, [fact sheets](#) and [information about the Project](#) and its [environmental assessment process](#).

We invite you to submit your feedback through the online comment form on the website following your review of the materials. A printable version of the comment form is available for download if preferred, which can be submitted by email to info@globalfirstpower.com. Should you wish to submit comments by mail or phone, or require any other assistance, please contact us and we would be happy to help.

Contact information can be found at the end of this presentation and on the project website.

This virtual open house will be hosted on this website from November 15th to 30th, 2021. We appreciate your online comment forms being returned by December 1st; however, you can submit comments and feedback after this date via email or phone.

Slide 2: Welcome to our Virtual Open House

We are here to present the work underway on the development of Canada's first small modular reactor (or SMR). GFP is proposing to build a commercial demonstration facility at the Chalk River site, which is owned by Atomic Energy of Canada Limited (or AECL) and managed by Canadian Nuclear Laboratories (or CNL). The Micro Modular Reactor[®], or MMR, designed by Ultra Safe Nuclear Corporation is the reactor technology that will be used.

The Project will serve to demonstrate how the MMR[®]'s advanced clean energy technology can provide new energy options for remote mines and communities that are cost-competitive with diesel to help support Canada's climate change goals. An environmental assessment (or EA) is underway to evaluate and mitigate effects to the environment that may occur as a result of the project.

We are hosting this virtual open house to share updates on project progress and next steps in the EA, including opportunities for public participation. Your input will help us understand your thoughts, perspectives and interests in the Project.

We look forward to hearing from you, gathering feedback and answering any questions you may have.

Slide 3: Commitment to Indigenous Communities

GFP is committed to building mutually beneficial working relationships with Indigenous communities located near its project site and operations.

The Chalk River site is built on unceded Algonquin Anishinaabe Territory – Anishinaabe Aki. The Anishinaabeg have lived on this territory for millennia. Their culture and presence have nurtured and continue to nurture this land. GFP honours the peoples and land of the Algonquin Anishinaabe Nation. GFP also recognizes all First Nations and Métis peoples and their valuable past and present contributions to this land.

GFP is committed to respectful engagement with all Indigenous communities with treaty and Aboriginal rights as well as those with interests in the vicinity of the Project site. Engagement with identified Indigenous communities began at the onset of our licence application process and we commit to ongoing engagement throughout all phases of the Project.

Slide 4: A Joint Venture

GFP is a joint venture between Ontario Power Generation (or OPG) and Ultra Safe Nuclear Corporation (or USNC). As mentioned previously, GFP is proposing to construct, own and operate a USNC-designed MMR® and the necessary ancillary facilities at the Chalk River site.

Slide 5: The Proposed Project

Our project started as a response to a CNL invitation to site a SMR at a CNL-managed site. Using the USNC®-designed MMR® technology, our proposed project will generate 15 megawatts of heat energy (approximately 5 megawatts of electricity, which is about enough to power 5,000 homes).

Our project at the Chalk River site intends to demonstrate flexible use of clean, Green House Gas-free, reliable nuclear heat for a variety of applications that could be used to decrease diesel used by heavy industry or in remote communities. The reactor is designed to be fuelled once and run for twenty years without refuelling. Its modular design allows users to add modules to increase the amount of electricity or heat that they need. The Project does not require access to the grid, external power or a source of water to operate. At the end of the reactor's life, the Facility will be decommissioned and the site restored.

In May 2021, GFP reached a significant licensing milestone. The Canadian Nuclear Safety Commission (or, the CNSC) declared that the project has fulfilled requirements to move into the formal phase of the Licence to Prepare Site review process. The project also continues the environmental assessment process. I'll speak about the EA further in a moment.

Slide 6: The Project Site

Our preferred site is located at a current staff parking lot, which avoids further disturbance to the natural environment and is close to supporting site infrastructure. We continue to explore the site further, through our environmental assessment work and our site evaluation study.

To prepare the site, GFP will need to:

- Remove the current asphalt surface and grade the site
- Work with CNL to install physical connections to existing Chalk River site services, such as water, sewage, electrical, and communications and
- Install site access control and environmental mitigations such as security fencing and erosion control measures.

During construction, activities will include:

- Excavation and preparation of building foundations.
- Construction or assembly of main facility structures, with off-site pre-cast concrete structures used for some of the modular structures.

Slide 7: Site Layout

The image on this slide shows the current planned layout for the different buildings for the facility. The facility will have two main parts: **The Nuclear Plant** and the **Adjacent Plant**. The Nuclear Plant has a citadel that houses the nuclear reactor, and a Nuclear Plant Building that houses the rest of the nuclear equipment. The heat the Nuclear Plant generates will be sent to The Adjacent Plant. The Adjacent Plant includes the Adjacent Plant Building where the heat provided by the Nuclear Plant is used to generate electricity or is converted to other forms of heat for either district heating or industrial purposes. The Adjacent Plant uses "dry cooling" technology (essentially high-power fans), which creates no visible cloud of steam (or water vapor) since cooling is done without an external water source. The Adjacent Plant will also include an administration building.

Based on current assumptions, the fenced area encompassing the facility is expected to be no more than 31,000m². For comparison, this area will be less than two Olympic-sized running tracks.

Operation and maintenance activities (including inspections, sampling, verification, and regular testing) of plant systems will occur over the life of the facility. After completion of operations of the project, the site will be closed (also known as decommissioning) and restored. Further information on the Project design, including waste management, is available in other resources on the virtual open house website.

Slide 8: Site Layout (Continued)

The image on this slide shows a rendering of how the facility may look from the outside, showing the Adjacent Plant area including the administration building in the foreground.

Slide 9: EA Process

GFP is working through the CNSC's integrated process for environmental assessment and licensing. Our EA is proceeding in accordance with the *Canadian Environmental Assessment Act, 2012* (CEAA, 2012) and the Environmental Impact Statement (EIS) Guidelines developed by the CNSC, supported by our consultant team at Calian.

Beyond these scope requirements, GFP plans to address the sustainability of the project and consideration of effects through gender-based analysis plus (GBA+) in response to feedback from Indigenous communities. GBA+ is an analytical process used to assess how women, men and gender diverse people may experience Project effects in different ways.

The EA process for the project, initiated in 2019, is underway with baseline environment characterization well advanced, and consideration of interactions and potential effects in progress.

The EA process follows a step-wise approach to focus the assessment on potential interactions between the environment and the Project, so that appropriate mitigation can be applied in order to reduce, or eliminate potential effects. This includes consideration of potential cumulative effects with other past, present, or reasonably foreseeable developments.

The EA must demonstrate that the Project is not likely to cause significant adverse environmental effects considering available mitigation measures.

Slide 10: Aspects of the Environment to be Considered

To consider potential effects of the Project on the environment within the scope of an EA, aspects of the physical, biological and human environment are defined, and important components of each aspect are defined to focus the assessment. For the aspects of the environment identified here, proposed Valued Components to focus this environmental assessment have been identified, including air quality, groundwater quality, migratory birds and public health. The proposed Valued Components are shared for viewing and download at the link shown. Please see the link to learn more about how our Valued Components were selected with your input.

Slide 11: Understanding the Site

Characteristics of the Chalk River site, including the area of the Project, are generally well understood based on years of study by CNL. Additional focused studies have been undertaken by GFP relevant to this project, including:

- A ground scan, also known as a geophysics investigation took place, which confirmed the potential suitability of the sub-surface to support the Project. Further geotechnical studies are advancing, including drilling to understand the site-specific rock, soil and groundwater conditions.
- Aquatic habitat assessment, within habitat areas outside of the Project site, which confirmed the understanding of the limited aquatic habitat and
- Regional public attitude survey, which queried awareness, interest and concerns about operations at the Chalk River site and this project.

Slide 12: EA Study Areas

The environmental assessment considers potential effects within a set of three areas: the site study area, the local study area, and the regional study area, which may vary for different aspects of the environment.

The site study area will include the area where Project activities would be undertaken which include the MMR® Project's proposed facilities, building and infrastructure.

A local study area is selected considering each Valued Component to represent where the project may have a direct affect. Local study areas most often includes the land and water immediately surrounding the site study area. One example shown here in yellow is the aquatic environment local study area which includes the drainage basin where the Project site is located.

The largest area is the regional study area and this is where effects of the Project may interact with effects of other existing or planned projects. An example shown here is the terrestrial regional study area, represented by the boundary of the Chalk River site.

Slide 13: Existing Environment

Some key elements relevant to the Project in understanding the existing habitat for fish and wildlife within those study areas include that:

- The Chalk River site supports a diverse mix of habitats including deciduous and coniferous forests, which support a wide variety of plant species
- Habitat for Species at Risk is present within the Chalk River site, including turtle, birds and bat species (which are monitored by CNL on an ongoing basis)

- The aquatic regional study area is dominated by the Ottawa River which supports a variety of aquatic species. However, the Local Study Area provides limited habitat for aquatic species. These areas of limited aquatic habitat are generally located in downstream portions of streams that collect stormwater.
- No areas of natural vegetation or aquatic habitat are present within the Site Study Area

Slide 14: Existing Environment (continued)

The Chalk River Site is located in Renfrew County, Ontario approximately 200 km North West of Ottawa. Land uses in the area of the Project include the existing operations at the Chalk River site, and Garrison Petawawa south of the site, each of which have restrictions on public access. Predominant land uses include recreation and tourism, as well as forestry, agricultural, and trapping activities. There are no known archaeological sites within the Site Study Area, based on archaeological studies completed at the site for CNL. GFP is working with Indigenous communities to learn more about land and resource use.

Slide 15: What we've heard

Engagement with Indigenous Communities, the general public and regulatory authorities has been taking place throughout the Project. Earlier this year we hosted a Virtual Open House and a second telephone town hall. The first GFP telephone Town Hall was held in 2020. These events have been well attended with many interested parties participating. Feedback has been provided and considered by GFP and we've heard a lot of questions about employment opportunities, the progress of the Project and about GFP. Feedback received to date reflects general approval of the selected Valued Components. Valued Components may be further adjusted to reflect input – please see the Valued Component link on the website for more information.

We welcome comments, feedback and questions and look forward to continued engagement throughout the remainder of the Project.

Slide 16: Timeline for Planning Purposes

This diagram shows the proposed timeline for this project. Currently we are in the process of conducting an Environmental Assessment. Throughout the life of the project, we will be engaging with Indigenous communities, the public and stakeholders to share information and seek feedback.

Slide 17: Next Steps

We are seeking your feedback on our preliminary findings as well as understanding how you would like to be engaged on the project going forward. We look forward to continuing to engage with you as we progress through the EA and licensing process. We welcome your input in helping to shape the direction of this exciting project.

Slide 18: Please Share Your Thoughts

We appreciate you sharing your feedback on the project. To provide comments, please return to the main page of this site – gfpcleanenergy.com - and click on the 'share comments' button. This button will be available until December 1st, 2021.

Slide 19: How to get involved

Comments and questions are always welcome and GFP is committed to keeping you informed. Our third “live and interactive” telephone town hall session is planned for November 16th 2021 at 7 pm and will be an opportunity to share information and

answer questions from the public. More information on this event can be found on this website.

We appreciate your comments. In addition to the comment module, feedback and questions can also be submitted anytime through the contact information on our website. If you need any assistance completing the comment form, please call us at 1-800-892-9504 and we will be happy to help. For more information on the project please visit our website (www.globalfirstpower.com).

Slide 20: Thank you

Thank you for visiting our virtual open house!