

April 14, 2022

# Grey County Council Update

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Media Relations & Economic Development



# Safety First: Protecting our people

- Kept employees safe and Provided power to Ontario and medical isotopes worldwide without interruption during pandemic
- Voluntary Rapid Testing Program, a success with over 11,000 test kits provided
- Supported our communities with PPE, funding for mental health, communications support
- Return to site of all staff – April 4



# MCR – Reactor removal work

- Unit 6 Major Component Replacement Project remains on track
- Currently rebuilding the Unit 6 reactor
- Planning is now well underway for Unit 3 MCR, set to begin in 2023
- MCR team now installing new components after removing feeder tubes, pressure tubes and calandria tubes



# MCR – Steam generator replacement

- Last major lift completed just before the holidays at the end of 2021
- Each unit contains eight steam generators, arranged vertically in two columns of four on east and west sides of the reactor
- Each steam generator is lifted through the powerhouse roof





- Conducted two Cobalt-60 harvests in 2021 – Cobalt-60 is an isotope used to treat cancer and sterilize medical equipment
- Installed a new Isotope Production System that will allow us to produce Lutetium-177, an isotope used in treatment of prostate cancer and certain tumours.
- First commercial power reactor world to produce Lutetium-177





- In 2021 a Private Member's motion asserting Ontario's global role as a leader in the supply of medical isotopes to fight COVID, and fight cancer, received unanimous, all-party support in the Ontario Legislature
- Isotopes produced at Bruce Power will directly impact 80 million lives every year



# Bruce Power Project 2030

- Bruce Power has increased our generation peak from 6,300 MW in 2016 to 6,550 MW with a goal of producing upwards of 7,000 MW by 2030
- That's enough to power another 250,000 Ontario homes
- Reaching 7,000 MW is equivalent to adding an entire full nuclear unit through optimization of existing assets, without the need to build new infrastructure

**Project2030**

# Net Zero needs nuclear

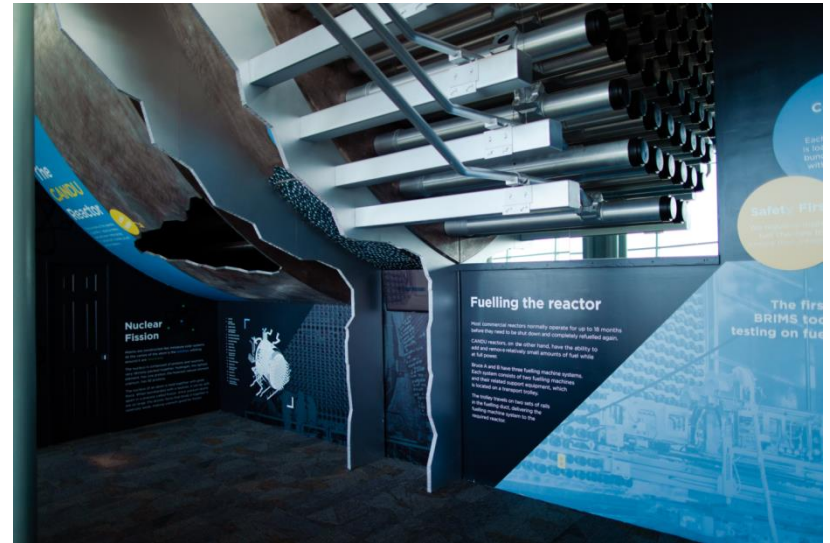
- In 2021, Bruce Power launched a number of initiatives, including a commitment to Net Zero from site operations by 2027 and unveiling the Carbon Off-set Coalition, a Net Zero carbon reduction community partnership program
- Bruce Power Net Zero Inc. will focus on projects that are complementary including storage, carbon off-sets, renewables, hydrogen, and electrified transportation





# Visitors' Centre Renovations

- Complete renovation of Visitors' Centre including HVAC, washrooms, paint, furniture, etc.
- Updated 19 exhibits and added a new Cobalt exhibit designed in collaborations with Ontario Science Centre
- Also added two new original artist murals
- Plan to reopen in April or May – summer bus tours to resume



# Supporting our communities

- Community sponsorship Fund - \$1.26M
- Indigenous Community Fund - \$400K
- Environment & Sustainability Fund - \$400K
- Supplier Sponsorship Fund - \$600K



# Boosting engagement

Bruce Power has always believed in actively engaging with the public, and answering all questions to the best of our abilities, as outlined in our [Commitment to Openness and Transparency](#).

We encourage the public to email us at [info@brucepower.com](mailto:info@brucepower.com) or submit a question through the form below. We have a robust program in place to ensure these inquiries receive a prompt and factual response.

Name

Email

Message

Send

# What's ahead in 2022

- Unit 6 Major Component Replacement
- Net Zero initiatives
- Opportunities to engage with communities
- Preparations for Unit 3 Major Component Replacement starting in 2023
- Vacuum Building Inspection at Bruce A starting in May that will see all four units down for approximately a month.