Bruce Power™

Sustainability Report 2025

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Indigenous Land Acknowledgement

The Bruce Power site is located within the Saugeen Ojibway Nation Territory, the shared treaty and traditional Territory of the Chippewas of Saugeen First Nation and Chippewas of Nawash Unceded First Nation (Neyaashiinigmiing).

Bruce Power is dedicated to honouring Indigenous history and culture and is committed to moving forward in the spirit of reconciliation and respect with the Indigenous communities we work with. We are committed to strong and respectful relationships with the Saugeen Ojibway Nation (SON), the Métis Nation of Ontario (Region 7), and Historic Saugeen Métis.

A Message from the Chair

At Bruce Power, powering the future starts with staying true to who we are – a proudly Canadian-owned company, committed to strong values, environmental leadership, and community partnership. Sustainability is embedded into our business and is a central driver of our mission to safely provide non-carbon emitting, affordable, reliable power and life-saving medical isotopes while strengthening our communities and protecting the environment to secure tomorrow. In a time when the world is demanding cleaner sources of energy and stronger action on climate change, Bruce Power plays a critical role in decarbonizing Ontario's electricity grid, supporting a thriving low carbon energy economy, and helping industries across the province transition to low-carbon operations.

More than a decade ago, Ontario successfully phased out coal-fired electricity – a move that resulted in one of the most substantial greenhouse gas (GHG) reductions ever achieved by a single jurisdiction. Bruce Power was instrumental in making this possible. By bringing Units 1 to 4 back online, we delivered 70 per cent of the clean electricity Ontario needed to replace coal, helping to build a more sustainable and reliable energy system. Today, our continued investments through the Life-Extension Program and Major Component Replacement Projects are securing these environmental benefits for future generations.

Building on this legacy, Bruce Power's Project 2030 will invest in a series of power recovery and optimization initiatives to increase our site's output to upwards of 7,000 megawatts by the early 2030s – the equivalent of adding a new large-scale reactor using our existing infrastructure. This additional clean energy will help offset emitting generation, further supporting Ontario's low-carbon electricity system.

Bruce Power's commitment to environmental leadership, conservation, monitoring and community engagement efforts was recognized with Gold Certification from the Wildlife Habitat Council - the world's only voluntary sustainability standard designed for broad-based biodiversity enhancement and conservation education on corporate landholdings. Bruce Power also continues its progress towards net zero scope 1 and 2 GHG emissions by 2027, achieving a net 37.5 per cent reduction from our 2019 baseline in 2024.

This report provides a comprehensive overview of our performance across key pillars of sustainability. It outlines our emissions reduction efforts, our work to support biodiversity and environmental protection, and our actions to foster an inclusive and equitable workforce. The report also includes updates on our community investments, Indigenous partnerships and engagement, supply chain sustainability, and our Green Financing framework.

As we look to the future, Bruce Power will continue to lead with purpose. We will advance technologies that drive environmental innovation, nurture a diverse and inclusive workforce, and work hand in hand with our partners to create lasting value for the communities we serve.

James Scongack,
Chair of the Bruce Power Environment and Sustainability Oversight Committee

Executive Summary

Bruce Power continues to lead Ontario's low-carbon energy transition, delivering safe, reliable, and non-carbon emitting nuclear power to support provincial and federal carbon reduction goals. This report outlines the company's progress in 2024 towards our sustainability goals, emphasizing our commitment to environmental leadership, community partnerships, and a culture of continuous improvement to build a more sustainable future for all.

In 2024, Bruce Power conducted a materiality assessment aligned with the International Sustainability Standards Board's (ISSB) International Financial Reporting Standards (IFRS) S1. The results highlight the strength of Bruce Power's existing program and the proactive approach the company has taken to address material topics.

The 2025 edition of Bruce Power's Sustainability Report focuses on the quantitative disclosure of our Sustainability Program's performance. Our performance in each of these areas is monitored year over year, ensuring alignment with industry best practices and aiming for continuous improvement. We ensure that our quantitative disclosure in the public space is clear, meaningful, and assured, with a rigorous and documented methodology, allowing for others to learn from our journey and inspire personal action.

Our Sustainability Program has always and continues to focus on four key areas: Environment, People and Safety, Products and Services, and Community.

Environment

Environmental safety and responsibility remained a core focus for Bruce Power, with strengthened efforts to minimize emissions and effluents, manage water and waste responsibly, and protect biodiversity to ensure that our site operations have minimum impact on the surroundings. Bruce Power maintained ISO 14001 certification and remains committed to meet or exceed all relevant legal and voluntary environmental requirements.

In 2024, Bruce Power continued to drive towards our commitment to achieve net zero scope 1 and 2 greenhouse gas (GHG) emissions, achieving a net 37.5 per cent reduction from a 2019 baseline. Bruce Power was also recognized with Gold Certification by the Wildlife Habitat Council for our commitment to environmental leadership, monitoring, conservation, and community engagement.

People and Safety

Safety is our number one value. It remains at the forefront of all we do at Bruce Power, and we are committed to continually improving our safety culture by applying best practices and strategic learnings. By proactively working together, we ensure that health and safety is the paramount consideration that guides all our decisions and actions. We look forward to learning from past experiences and consistently achieving the highest safety standards.

Bruce Power is prepared for all types of possible emergency events, including the highly unlikely event of a nuclear emergency. Bruce Power recognizes the importance of maintaining a robust and multi-faceted Emergency Response Program as part of its number one value of Safety First, as well as Social Responsibility. The effectiveness of Bruce Power's Emergency Response Program is continuously evaluated through a series of drills and exercises. The Canadian Nuclear Safety Commission (CNSC) has consistently rated Bruce Power's emergency response capabilities as fully satisfactory.

In the ever-evolving nuclear industry, Diversity, Equity, and Inclusion (DEI) remains pivotal to our success. To maintain our commitment to performance excellence and to continue to innovate, we leverage our people and cultivate a culture of excellence. Our program focuses on Talent, Culture, and Community, and is essential to positioning Bruce Power as a leader in the industry and the community.

Products and Services

Bruce Power is proud to be a reliable made-in-Canada provider of non-carbon emitting electricity and cancer-fighting medical isotopes. In early 2025, Bruce Power launched a Canadian at our Core campaign, committing to continue to promote the made-in-Ontario and Canada nuclear industry and urging our partners to buy local and buy Canadian. Responsible sourcing, including local sourcing, is a key focus and incorporated into our agreements with new suppliers. In 2024, 83.7 per cent and 88.9 per cent of spending on services and materials was in Ontario and Canada, respectively.

We are committed to working with local Indigenous Nations and Communities and local Indigenous-owned businesses to identify areas of interest and capability and to address barriers to procurement and contracting. Bruce Power's Indigenous Procurement Policy supports meaningful, measurable contracting and procurement opportunities for local Indigenous-owned companies as well as greater opportunities for regional and national Indigenous-owned companies.

Bruce Power expects our suppliers to support and respect human rights, Indigenous Relations, Diversity, Equity, and Inclusion and provide equal opportunity within the workplace.

Community

At Bruce Power, we have the privilege to contribute to the community and encourage our partners to do the same. Bruce Power invests more than $2 million annually to support initiatives that focus on health and wellness, youth development, minimizing environmental impacts, community engagement, and Indigenous youth development, cultural, recreational, and educational programming. In 2024, the company provided $3.81 million in total value of sponsorships and donations.

Bruce Power remains dedicated to powering Ontario's future with clean energy, advancing sustainability through innovative projects, and fostering a positive impact on the environment and communities. The 2025 Sustainability Report reflects the company's ongoing commitment to transparency, accountability, and leadership in a low-carbon energy future.

About Bruce Power

Bruce Power is an electricity company based in Bruce County, Saugeen Ojibway Nation Territory, Ontario. We are powered by our people. Our 4,200 employees are the foundation of our accomplishments and are proud of the role they play in safely delivering clean, reliable nuclear power to families and businesses across the province and cancer-fighting medical isotopes around the world. Bruce Power has worked hard to build strong roots in Ontario and is committed to protecting the environment and supporting the communities in which we live. Formed in 2001, Bruce Power is a Canadian-owned partnership of TC Energy, OMERS, the Power Workers' Union, and The Society of United Professionals.

Bruce Power's Environment and Sustainability Oversight Committee

Bruce Power's Environment and Sustainability Oversight Committee ("Committee") has been diligently governing the company's Sustainability Program since 2020. This Executive-level Committee is dedicated to the integration of sustainability monitoring, goals, risks, and opportunities, based on Environmental, Social, and Governance (ESG) criteria, into our long-term business strategy, and ensuring that due consideration is being given to social and environmental trends that could impact the company's operations.

By basing our approach on ESG criteria, we can take a holistic approach, integrating consideration for the impact and influence Bruce Power holds, to achieve excellence. Environmental criteria consider how a company performs as a steward of nature. Social criteria examine how it manages relationships with employees, suppliers, customers, and the communities where it operates. Governance deals with a company's leadership, audits, and internal controls. At Bruce Power, excellence means collectively living our common values, demonstrated through our behaviours, using our tools to achieve the results we want for the business − Safe. Reliable. Securing Tomorrow.

An important part of securing tomorrow is being responsible stewards of the environment and corporate citizens while maintaining excellent governance. To achieve this, the Committee remains focused on integrating strong sustainability principles into our business strategies and operations. Our aim is to continuously improve our performance in each of these areas to exceed industry, stakeholder, and interested parties' standards. We are committed to maintaining transparency and accountability in our monitoring and reporting, and to implementing actions and initiatives that drive real, tangible benefits. As leaders, we commit to driving our sustainability goals with forward-thinking innovation, making decisions for the greater good, and, in doing so, strive to make the world a better place.

In the spirit of driving for excellence, one of our key Sustainability Program initiatives in 2024 was undertaking a Materiality Assessment to ensure alignment with industry best practice and Canadian and global reporting frameworks. Through this assessment, we affirmed the strength of our program and understanding of what topics are material to our interested parties while identifying new topics for consideration.

Our Approach to Sustainability

The future is nuclear. Bruce Power plays a crucial part of Ontario's clean energy grid, past, present and future. To achieve this, it takes an unwavering commitment to being a responsible steward for people, communities, and the environment. Bruce Power's Sustainability Program has been developed using industry best practices and global standards, focusing on four key areas: Environment, People and Safety, Products and Services, and Community.

We aim to continuously improve performance and disclosure in each of these areas to exceed industry standards, increase transparency, and to address topics and issues that are most significant to interested parties.

The Sustainability Program is led by the Environment, Sustainability, and Net Zero Division, which reports biannually to the Environment and Sustainability Oversight Committee. The Bruce Power Board of Directors (the Board) has oversight over the strategy and governance related to all Sustainability matters. This governance and oversight structure ensures the integration of sustainability-related risks and opportunities based on Environmental, Social, and Governance (ESG) criteria, into the long-term business strategy and company operations.

Bruce Power is committed to maintaining transparency and accountability in our monitoring and reporting, and to implementing actions and initiatives that drive real, tangible benefits in the short-, medium-, and long-term.

Sustainability Ratings and Assurance

Bruce Power undertakes an annual process to obtain an Environment Social Governance (ESG) Risk Rating, which has been completed by Morningstar Sustainalytics, a leading third-party ESG Risk Rating agency. In 2024, Bruce Power maintained a "Low Risk" ESG risk rating, recognizing Bruce Power as a strong performer. The ESG Risk Rating combines an assessment of the company's exposure to industry-specific ESG issues and how well the company is managing those risks through suitable policies, programs, and initiatives.

In line with our commitment to ensuring that the public disclosure of our sustainability performance is meaningful, assured, and has rigorous methodology, we obtain third-party limited assurance for key performance indicators (KPIs) related to greenhouse gas (GHG) emissions as well as two of our People and Safety KPIs, related to the representation of women and visible minorities in our workforce, in this year's report.

Green Financing

Green Financing Framework

Bruce Power's Green Financing Framework (the Framework), facilitates the alignment of business and financing activities to support and drive a more sustainable future. The Framework guides issuances of Green Bonds for eligible investments. Eligible investments are investments associated with the company's Life-Extension Program, Project 2030, and potential investments in new nuclear installations. With the 2023 update of the Framework, Bruce Power includes new

nuclear technologies as an eligible green expenditure, a positive step forward in aligning with Canada's climate and environmental priorities, while supporting nuclear as a vital part of Canada's low-carbon energy future.

Bruce Power's updated Framework received a Second Party Opinion from S&P Global Ratings, a leading provider of second party opinions on green financings, under the Shades of Green analytical approach, formerly part of CICERO. S&P Global Ratings assessed the Framework as "Medium Green", indicating that the Framework is aligned with the Green Bond Principles issued by the International Capital Markets Association (ICMA), 2021 and the Green Loan Principles issued by the Loan Market Association (LMA), the Loan Syndications and Trading Association (LSTA) and the Asia Pacific Loan Market Association (APLMA).

Green Bonds

Bruce Power has issued $2.3 billion in Green Bonds to date, including the inaugural issuance of $500 million in 2021, a global first for nuclear power, $600 million in 2023, and $1.2 billion in 2024. The company's Green Bond Report provides information on the allocation and impact of Green Bond proceeds. The next impact report will be released mid-2025.

Sustainability Linked Financing Instruments

Bruce Power's Sustainability Linked Loan (SLL) and Sustainability Linked Deposit (SLD) are structured with sustainability performance measures linked to reducing GHG emissions and aligning our workforce composition, specifically for women and racialized people, with labour market availability. The performance results are verified by a third-party agency at a set frequency as per the terms of the sustainability linked financial instruments.

Materiality

From a sustainability perspective, materiality refers to the process of identifying and prioritizing the environmental, social, and governance topics that are most significant to an organization and its interested parties. These identified material topics can have substantial impacts on the company's performance and reputation. Understanding what truly matters to interested parties, and where the company can influence and drive improvements, is critical to developing material sustainability metrics, to measure and monitor the company's performance, and to building trust.

Globally, the International Sustainability Standards Board (ISSB) is aiming to set the global baseline for sustainability reporting with voluntary sustainability-related financial disclosure standards and has developed the International Financial Reporting Standards S1 General Requirements for Disclosure of Sustainability-related Financial Information (IFRS S1) and IFRS S2 Climate-related Disclosures (IFRS S2). In Canada, the Canadian Sustainability Standards Board (CSSB) adopted the Canadian Sustainability Disclosure Standards (CSDS) 1 and 2, which are materially aligned to IFRS S1 and S2, respectively.

How We Assess Materiality

In response to evolving global and Canadian regulations around sustainability disclosure, and increased expectations of our interested parties, Bruce Power, in collaboration with PricewaterhouseCoopers International Limited (PwC), conducted a Sustainability Materiality Assessment following the approach outlined by the IFRS and CSDS. This approach allows Bruce Power to identify and disclose material information related to an entity's sustainability-related risks and opportunities to the primary users of general-purpose financial reporting (e.g., investors and creditors). The Materiality Assessment built upon our existing understanding of topics that are material to Bruce Power for public disclosure, which is based on sources that include, but are not limited to: our Enterprise Risk Management (ERM) system, input from public opinion research, routine community polling results, public inquiry information, surveys during stakeholder engagement events, routine engagement with local Indigenous Nations and Communities, routine discussions with regulatory bodies, intervention submissions during our Power Reactor Operating Licence renewal process, and third-party risk rating analyses.

From this re-assessment, Bruce Power considers the following topics to be material:

- Air Quality and Pollution Prevention
- Biodiversity and Ecosystem
- Carbon Market Instruments and Sustainable Financing
- Climate Change and Resilience
- Community Relations
- Indigenous Engagement & Partnerships
- Nuclear Safety and Emergency Management
- Procurement Practices
- Production of Medical Isotopes
- Waste Management
- Water Management
- Workforce Inclusion

The results of the Sustainability Materiality Assessment were finalized in 2025. The findings highlight the strength of Bruce Power's existing program and approach, revealing that many of the identified key material topics were already being considered by the company for public disclosure. This speaks to the proactive approach Bruce Power takes to understanding the perspectives of its interested parties. The assessment also highlighted new topics that Bruce Power had not previously included in public disclosure – grid resiliency and cyber and information security – signaling emerging areas of interest from external parties that the company will incorporate further disclosures moving forward. Considering the sensitive nature of these topic areas, we will be taking 2025 to consider the best approach to thoughtfully integrate into future disclosures and reporting.

Sustainability Metrics and Disclosure

This annual Sustainability Report focuses on quantitative disclosure for 37 of our Sustainability Program KPIs. For these KPIs, we illustrate year over year performance and performance against set targets. The KPIs were developed based on guidance from the United Nations Sustainable Development Goals (UN SDGs), Sustainability Accounting Standards Board (SASB), Task Force on Climate Financial Disclosures (TCFD), the Global Reporting Initiative (GRI), and our own materiality assessment. At this time, Bruce Power is not claiming full conformance to any of the listed standards or frameworks, rather, we have used each standard and framework to guide disclosure based on materiality.

We ensure that our disclosures in the public space are meaningful, assured, and based on a rigorous methodology allowing for others to learn from our journey and inspire personal action. We continue to monitor best practices and regulatory requirements with regards to Sustainability reporting, disclosure, and performance on both an industry and a global scale, evolving our approach as necessary.

The United Nations' 2030 Agenda for Sustainable Development

As part of our Sustainability Program, we routinely review the United Nations Sustainable Development Goals (UN SDGs) to understand the goals which are relevant to our business, how we can connect them to our ongoing sustainability efforts, and how to evolve our strategy to be a global contributor. Bruce Power has identified 12 UN SDGs that we believe will have the greatest influence in guiding our ongoing efforts. These have been incorporated into our KPI tables, noting the relevant UN SDGs to show links.

- Good Health and Well-Being
- Gender Equality
- Clean Water and Sanitation
- Affordable and Clean Energy
- Decent Work and Economic Growth
- Industry, Innovation and Infrastructure
- Reduced Inequalities
- Sustainable Cities and Communities
- Responsible Consumption and Production
- Climate Action
- Life Below Water
- Life on Land

Figure 1
United Nations Sustainable Development Goals

We acknowledge that the goal of Life Below Water (UN SDG 14 is focused on conserving and sustainably using the oceans, seas, and marine resources for sustainable development) does not explicitly state freshwater; however, the Great Lakes are one of the largest aquatic ecosystems and are vitally important to North America. We undertake significant efforts to ensure the protection of Lake Huron, local watersheds, and the broader Great Lakes ecosystem. These efforts are outlined within the “Environment” section of this report.

The Bruce C Project – Impact Assessment

With electricity demand in Ontario expected to grow rapidly in the coming decades, Bruce Power is beginning the process of long-term planning to evaluate the impact of adding up to 4,800 MW of nuclear capacity on the existing Bruce Power site by advancing the Bruce C Project. Through the federal integrated impact assessment (IA) process, led by the Impact Assessment Agency of Canada (IAAC) alongside the Canadian Nuclear Safety Commission (CNSC), Bruce Power will study environmental, economic, social, and health impacts of the Bruce C Project, including those of Indigenous Nations and Communities. The Project will take a technology-neutral approach through the use of a Plant Parameter Envelope (PPE), which involves considering multiple technologies to provide optionality in technology selection to the province. Bruce Power is advancing the IA process in a proactive, open, and transparent manner to engage Indigenous Peoples, local communities, interested parties, and the public.

Impact Assessment Process

The IA is a five-phase process, consisting of Planning, Impact Statement, Impact Assessment, Decision, and Post-Decision phases. Each of these phases have some legislated timeline assigned to them.

Bruce Power’s submission of an Initial Project Description (IPD) triggers the planning phase, and provides preliminary information about the Bruce C Project, including feedback received during early engagement activities with federal regulators, the public and Indigenous Nations and Communities. The Bruce C IPD was accepted by IAAC on August 12, 2024. The next step in the planning phase is IAAC’s issuance of the draft Bruce C Tailored Impact Statement

Guidelines (TISG) and other planning documents for public and Indigenous comment. The IAAC will finalize the Bruce C TISG and planning document and then will prepare a Notice Of Commencement which will be posted to the Registry and will start the impact statement phase. The key participants involved throughout the IA process and estimated timelines for each phase of the IA are depicted in Figure 2 below.

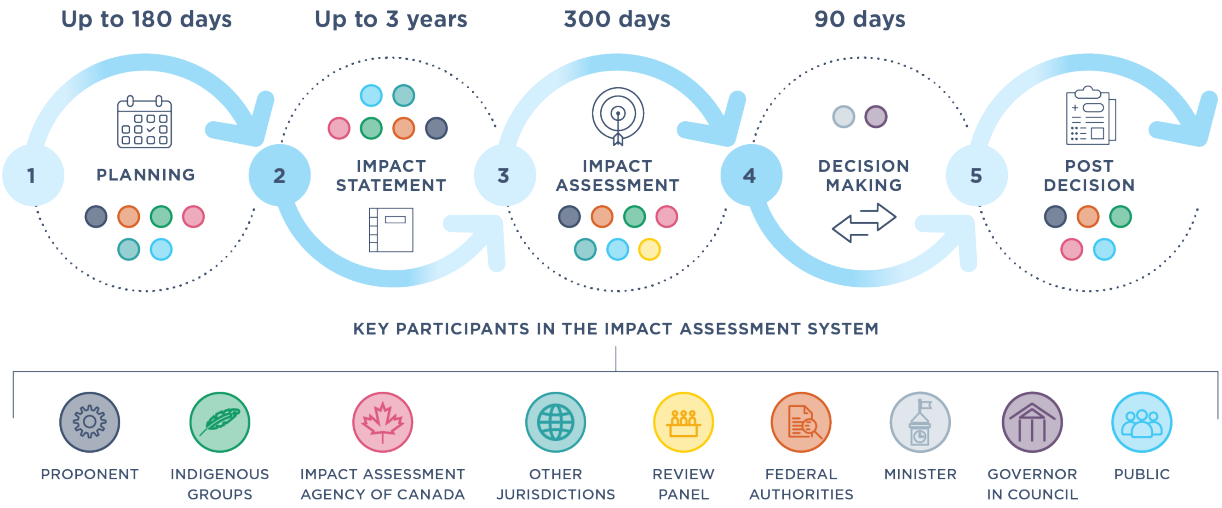

Figure 2
Key Participants Involved Throughout the IA Process and Estimated Timelines for Each Phase

Environment

KPI	Standard guidance is taken from *	2019 Baseline	2024 Target	2024 Actual	2025 Target	UN SDG Alignment
Scope 1 GHG Emissions (tCO_2e)	IF-EU110a.1, GRI 305-1	6,946	See Net GHG Emissions	7,739	See Net GHG Emissions	UN SDG 7 - Affordable and Clean Energy UN SDG 13 - Climate Action
Location-based Scope 2 GHG Emissions (tCO_2e) [1]	GRI 305-2	15,381	See Net GHG Emissions	13,387	See Net GHG Emissions	UN SDG 7 - Affordable and Clean Energy UN SDG 13 - Climate Action
Market-based Scope 2 GHG Emissions (tCO_2e)	GRI 305-2	15,381	See Net GHG Emissions	6,215	See Net GHG Emissions	UN SDG 7 - Affordable and Clean Energy UN SDG 13 - Climate Action
Carbon Offsets Retired (tCO_2e)	See Methodology	0	See Net GHG Emissions	0	See Net GHG Emissions	UN SDG 7 - Affordable and Clean Energy UN SDG 13 - Climate Action

KPI	Standard guidance is taken from *	2019 Baseline	2024 Target	2024 Actual	2025 Target	UN SDG Alignment
Retired Clean Energy Credits (CECs) / Renewable Energy Credits (RECs) Allocated to Market-based Scope 2 Electricity Emissions (tCO_2e) [2]	See Methodology	0	See Net GHG Emissions	7,172	See Net GHG Emissions	UN SDG 7 - Affordable and Clean Energy UN SDG 13 - Climate Action
Net GHG Emissions - Scope 1 and 2 Emissions, Carbon Offsets Retired, Clean Energy Credits Retired (tCO_2e) [3 4]	See Methodology	22,327	13,954 (37.5% reduction from 2019 baseline)	13,954	11,164 (50% reduction from 2019 baseline)	UN SDG 7 - Affordable and Clean Energy UN SDG 13 - Climate Action
GHG Emissions Intensity (tCO_2e)/GWh	GRI 305-4	Not applicable -New Indicator	≤ 0.48	0.46	≤ 0.54	UN SDG 7 - Affordable and Clean Energy UN SDG 13 - Climate Action
Scope 3 GHG Emissions ($MtCO_2e$)	GRI 305-3	0.88	No target	0.45	No target	UN SDG 7 - Affordable and Clean Energy UN SDG 13 - Climate Action
Number of Clean Energy Credits (CECs) from Bruce Power Incremental Output Issued in Registry	See Methodology	Not applicable	No target	767,534	No target	UN SDG 7 - Affordable and Clean Energy UN SDG 13 - Climate Action

1. We apply the GHG Protocol Scope 2 Guidance and report our scope 2 emissions using both market-based and location based-methods. Based on current operations, the results for the market-based and location-based methods are equivalent for 2019-2022.
2. The Energy generation technology from which the CECs are derived is nuclear power with an emission rate of 0 M tCO_2e/MWh.
3. Net GHG emissions are the product of scope 1 emissions, applied Verified Emission Reductions (VERs), and market-based scope 2 emissions. The goals/targets are based on the market-based scope 2 calculation method.
4. Residual mix emission factors for the Ontario IESO grid are not publicly available.

* Bruce Power does not claim to conform to any of the standards identified, rather guidance has been taken from those standards identified. Sustainability reporting metrics have been chosen that reflect items material to our business. As noted, we have a larger subset of internal metrics, and as our program matures, we will continue to add to the metrics that we release into the public domain. Bruce Power remains committed to advocating for more standardized disclosure and remains committed to staying up to date on policy and frameworks that are attempting to bring more clarity to information that is crucial for disclosure from a financial, environmental, and social standpoint.

KPI	Standard guidance is taken from *	2024 Target	2024 Actual	2025 Target	UN SDG Alignment
Number of Trees Planted Annually Supported by Bruce Power's Environment & Sustainability Fund	See Methodology	≥ 5,000	4,391	≥ 5,000	UN SDG 15 – Life on Land
Non-Carbon Emitting Energy Production via Bruce Power Annual Generation (TWh)	See Methodology	No target	45.98	No target	UN SDG 7 - Affordable and Clean Energy
Ontario Grid Emissions Avoidance via Bruce Power Annual TWh Generation (tCO_2e)	See Methodology	20,765,773	20,316,394	18,190,835	UN SDG 7 – Affordable and Clean Energy
Total Value of Environment & Sustainability Fund Assigned	See Methodology	$ 400,000	$ 458,180	$ 400,000	UN SDG 14 – Life Below Water UN SDG 15 – Life on Land
Weight of Conventional Waste Generated (MT)	GRI 306-3	No target	2,555.18	No target	UN SDG 5 – Responsible Consumption and Production
Conventional Waste Diversion Rate (%)	GRI 306-4	≥ 71%	70.5%	≥ 71%	UN SDG 5 – Responsible Consumption and Production
Hazardous Waste Diversion Rate – Oil Recycling (%)	GRI 306-4	≥ 50%	60%	≥ 50%	UN SDG 5 – Responsible Consumption and Production
Total Water Drawn from Lake Huron (million cubic meters)	IF-EU-140a.1, IF-EU-140a.3, GRI 303-3	< 11,645.3	9,105	< 11,645.3	UN SDG 6 – Clean Water and Sanitation
Total Water Returned to Lake Huron (million cubic meters)	IF-EU-140a.1, GRI 303-4	No target	9,102	No target	UN SDG 6 – Clean Water and Sanitation
Net Water Consumption from Lake Huron (million cubic meters)	IF-EU-140a.1, IF-EU-140a.3, GRI 303-5	≤ 2.3	2.04	≤ 2.3	UN SDG 6 – Clean Water and Sanitation
Water Use Intensity - Water Consumed/Power Generated (m^3/MWh)	IF-EU-140a.3	≤ 0.050	0.044	≤ 0.057	UN SDG 6 – Clean Water and Sanitation
Significant Incidents of Non-Compliance Associated with Water Quantity	IF-EU-140a.2	0	0	0	UN SDG 6 – Clean Water and Sanitation
Significant Incidents of Non-Compliance Associated with Water Quality	IF-EU-140a.2	0	0	0	UN SDG 6 – Clean Water and Sanitation
Annual Dose to Public	CSA N288.1	<10 µSv/yr	1.1 µSv/yr	< 10 µSv/yr	Not applicable
Net Land Preservation vs Disturbance (Hectares)	See Methodology	≥ 40	54.1	≥ 40	UN SDG 15 – Life on Land

KPI	Standard guidance is taken from *	2024 Target	2024 Actual	2025 Target	UN SDG Alignment
Invasive Species Management (Phragmites) in Baie du Doré	See Methodology	Phragmites eradicated or population density is low	Medium-density Phragmites cells remain (preliminary data)	Phragmites eradicated or population density is low	UN SDG 14 – Life Below Water UN SDG 15 – Life on Land
Sitewide Environmental Health Index (EHI)	See Methodology	≥ 92%	95%	≥ 92%	UN SDG 14 – Life Below Water UN SDG 15 – Life on Land

* Bruce Power does not claim to conform to any of the standards identified, rather guidance has been taken from those standards identified. Sustainability reporting metrics have been chosen that reflect items material to our business. As noted, we have a larger subset of internal metrics, and as our program matures, we will continue to add to the metrics that we release into the public domain. Bruce Power remains committed to advocating for more standardized disclosure and remains committed to staying up to date on policy and frameworks that are attempting to bring more clarity to information that is crucial for disclosure from a financial, environmental, and social standpoint.

Bruce Power's Environmental Protection Program is founded on an integrated approach aimed at understanding environmental interactions and impact, verifying environmental protection through monitoring and risk assessment programs, and continuously striving to improve our performance through incorporation of Indigenous Knowledge, and strategic research and innovation in collaboration with industry and community partners.

Environmental monitoring and assessments verify that emissions and effluents from site operations have a minimal impact on the surroundings. Environmental safety and responsibility are integral to the company's nuclear safety culture, and Bruce Power is committed to meeting or exceeding all relevant legal and voluntary environmental requirements. We are committed to environmental protection and strive to minimize our environmental footprint. We follow industry standards including the CSA N288 series for environmental management in nuclear facilities and are certified to the ISO 14001 Environmental Management System Standard.

In 2023, Bruce Power successfully completed its ISO 14001 re-registration audit, which is conducted every three years, with surveillance audits completed by an accredited third party every year. During this audit, our Environmental Management System (EMS) was deemed effective, and auditors identified several strengths with no non-conformances. In 2024, a surveillance audit reaffirmed Bruce Power's conformance to the ISO 14001 Standard, again with no non-conformances identified.

Bruce Power's Environmental Management System program oversees the planning, implementation, and operation of integrated activities, focusing on minimizing the potential adverse impact of Bruce Power's operations on the environment. This includes ensuring that Bruce Power's Environmental Management Program conforms to the ISO 14001 standard for Environmental Management Systems, adheres to applicable environmental compliance obligations, and meets the commitments made in Bruce Power's Environment & Sustainability Policy.

This policy establishes guiding principles and commitments of the company towards our mission of environmental protection and sustainability. The policy also highlights expectations for employees and individuals working on behalf of Bruce Power as it relates to environmental safety, and outlines our commitment to transparency, and continuous improvement towards excellence.

Net Zero Strategy

Bruce Power is continuing to contribute to a net zero Canada by 2050 by committing to achieving net zero greenhouse gas (GHG) emissions, from its site operations by 2027, making it the first nuclear operator in North America to make such an ambitious commitment.

While the company reliably produces large volumes of non-carbon emitting energy that is critical to Ontario's GHG emissions reduction targets, Bruce Power continues to make strides to minimize and offset emissions from routine undertakings such as vehicles, machinery, buildings, and equipment to achieve net zero by 2027.

Our Net Zero 2027 target accounts for all direct and indirect GHG emissions that occur from sources that are owned or controlled by the company (scope 1 and scope 2 emissions). To drive continued progress towards this Net Zero target, increasing emission-reduction targets were set against a 2019 baseline for the years leading up to 2027, from 2021 through 2027.

Year	2021	2022	2023	2024	2025	2026	2027
Cumulative % Reduction from 2019 Baseline	5%	12.5%	25%	37.5%	50%	62.5%	100%

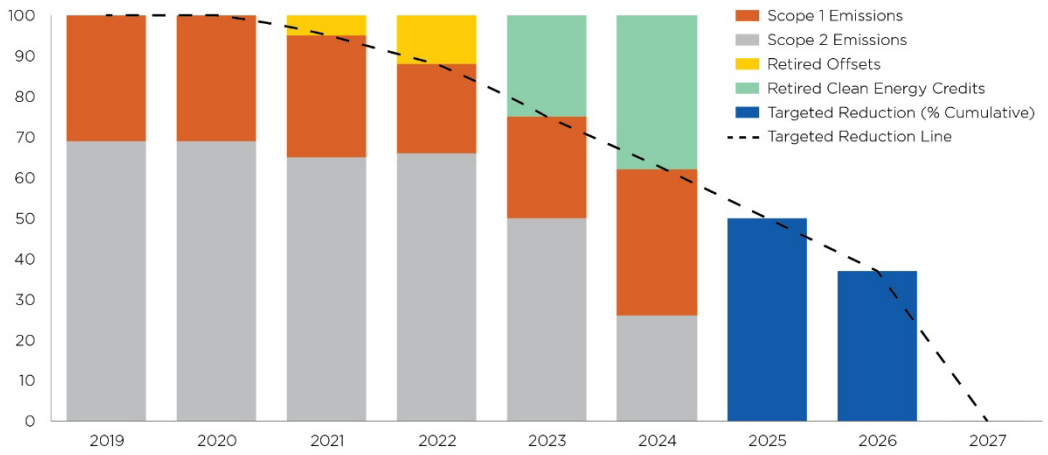

Figure 3
Graph Illustrating Bruce Power's Annual GHG Reduction Targets, Annual Scope 1 and 2 GHG Emissions, and GHG Offsets and Clean Energy Credits Retired to Support Reduction Targets.

Our Net Zero 2027 Strategy outlines how emissions reduction targets will be achieved and our structured approach to supporting both provincial and federal climate change goals. This strategy includes reducing or avoiding GHG emitting sources through the optimization of building use on site, implementing energy and emission-reduction projects and initiatives in our operations, finding alternatives to high-emission energy sources, and, where further reductions are not feasible, pursuing emission offsets and leveraging Clean Energy Credits (CECs) through the Ontario Clean Energy Credit Program.

For more information on Bruce Power's Net Zero 2027 Strategy, including initiatives and updates on our action plan to support Ontario and Canada's climate change goals, please see our Net Zero Strategy document.

Clean Energy Credits

As a leading producer of non-carbon emitting electricity for the province, Bruce Power now offers Clean Energy Credits (CECs) to help Ontario-based corporate electricity customers reach their environmental and sustainability goals. CECs are electronic credits that businesses can purchase from Ontario's clean energy generators, including nuclear operators, to help offset scope 2 GHG emissions from their operations to achieve voluntary environmental goals.

Building upon the success of Ontario's 2023 CEC Program, Bruce Power continued to offer CECs from incremental generation output for the vintage year of 2024. For more information and contact details, please visit Bruce Power's Clean Energy Credits web page.

Greenhouse Gas Emissions

Bruce Power met net greenhouse gas (GHG) emissions reduction targets in 2024 and continues to work on the implementation of on-site operational initiatives as well as partnering with local carbon sequestration and offset projects to support further reductions. Through the Ontario Clean Energy Credit Program, Clean Energy Credits (CECs) from nuclear power generation were allocated towards the emissions resulting from our electricity consumption to support us in meeting our Net Zero targets.

Scope 1 emissions increased in 2024 due to an increase in fuel consumption for standby generators and mobile sources, releases of sulphur hexafluoride (SF6) and releases of halocarbons. Scope 2 emissions decreased from 2023 due to a reduction of outages resulting in reduced electricity consumption and a reduction of steam consumption from previous years as a building is transitioning to natural gas. In 2024, our net 37.5 per cent GHG emissions reduction target was met by retiring CECs, with net emissions totaling 13,954 tCO_2e.

We were able to utilize CECs to "offset" the emissions associated with our scope 2 electricity consumption, retiring 204,909 CECs (MWhs) which was equivalent to the avoidance of 7,172 tCO_2e.

By meeting our 2024 net GHG reduction target against our 2019 baseline, this is equivalent to avoiding the emissions associated with 2,675 passenger vehicles or 2,045 homes' energy use for one year.[1]

Bruce Power's GHG emissions intensity, based on power generated and net emissions, has continued to decrease from 2021. In 2024, GHG emissions intensity was 0.46 tCO_2e/GWh, down from 0.49 tCO_2e/GWh in 2023.

Scope 1 and 2 GHG Emissions

Bruce Power's Scope 1 and Scope 2 GHG inventory is maintained in alignment with the principles and guidance provided in The Greenhouse Gas Protocol, A Corporate Accounting and Reporting Standard (GHG Protocol) developed by The World Resources Institute (WRI) and World Business Council for Sustainable Development.

Using an Operational Control approach to define our GHG inventory boundaries, we report on scope 1 and 2 emissions from operations and facilities that are owned by Bruce Power and/or where Bruce Power has controlling interest from an operational perspective.

[1] Natural Resources Canada. (n.d.). Greenhouse Gas Equivalencies Calculator. Retrieved from Greenhouse Gas Equivalencies Calculator | Natural Resources Canada.

Bruce Power's direct (scope 1) GHG emissions include those that occur from sources that are owned or controlled by Bruce Power. These include:

- **Stationary combustion:** Combustion of fuels in owned or controlled stationary combustion sources, such as our emergency standby generator testing routines and other standby generators.
- **Mobile combustion:** Fuel combustion in on-road or off-road mobile combustion sources, such as fleet vehicles.
- **Process emissions:** Emissions from physical or chemical processes.
- **Fugitive emissions:** Intentional or unintentional fugitive releases of gases or vapours from minor equipment leaks or planned purges and venting.

The construction emissions generated on site from sources owned or controlled by Bruce Power during our Life Extension work are captured in our scope 1 calculations and reflected in those numbers.

Bruce Power's indirect (scope 2) GHG emissions include those that occur from the generation of electricity or energy (e.g., steam used for space heating) purchased and consumed by Bruce Power. Bruce Power is registered with Ontario's Clean Energy Credit Program to purchase CECs from the generation of nuclear power. Scope 2 emissions for 2024 were calculated using the location-based and market-based method where the market-based method was calculated using an emission rate of 0 M tCO_2e/MWh for CECs derived from nuclear power.

Scope 3 GHG Emissions

Scope 3 emissions refer to GHG emissions that occur from sources owned or controlled by other entities in Bruce Power's value chain. These emissions are from activities from our supply chain that support Bruce Power operations, Life Extension work, or a consequence of the activities of Bruce Power, but occur from sources not owned or controlled by Bruce Power.

In 2021, an initial screening exercise on 2019 data was completed to determine which scope 3 emission categories were relevant to Bruce Power and to complete a baseline calculation to quantify emissions. We continued to build upon this work, calculating our scope 3 emissions inventories for 2022 through 2024.

Each year purchased goods and services accounted for the majority of Bruce Power's scope 3 emissions. In 2024, this category accounted for 89 per cent of scope 3 emissions. Other emission sources include fuel and energy-related activities that are not counted in scope 1 or 2 emissions, waste generation, business travel, and employee commuting. In 2024, our total scope 3 emissions were 0.45 M tCO_2e. The decrease in emissions from previous years is largely due to a reduction in purchased goods and services as well as refinements to the emission factors for this category.

In the pursuit of improved data collection, efforts are being taken to refine the conservative assumptions used in the current scope 3 calculation methodologies. Improved data will help to better identify where Bruce Power can influence reductions in scope 3 emission sources. In addition, efforts are being made to engage with our top suppliers to attain GHG data and to encourage the implementation of GHG reduction targets and initiatives.

GHG Avoidance

Ontario's electricity grid is deeply decarbonized, however, the capacity of electricity to replace that generated by the Bruce Power site could not be made up from existing renewable capacity or imports from neighbouring electricity grids. More carbon-intensive electricity generation would be required. Therefore, for the Emissions Avoidance KPI in this report, the estimated GHG emission impact resulting from Bruce Power's annual generation, associated with zero direct GHG emissions, is compared to the amount of direct GHG emissions that would result from the same electricity generation being provided by natural gas in the Ontario grid.

In 2024, as a result of non-carbon emitting electricity generation by Bruce Power, the potential emissions avoided was equivalent to approximately 20.3 million tCO_2e. More detail on this calculation is found in the "Methodology" section.

Energy and Emission-Reduction Projects and Initiatives

On-Site Initiatives

There are several long-term emission-reduction projects in progress to increase energy efficiencies and decrease GHG emissions in our on-site operations, buildings, and fleet. These include:

- Continuing site building-use optimization and decommissioning of buildings that are no longer required to reduce space heating and energy demands.
    - Two buildings were vacated in 2022 for use-optimization thereby reducing energy and other resource needs.
- Switching building heating systems to more efficient heating sources, including substitution from transported steam (which endures significant line losses) to more efficient natural gas combustion on site.
    - Two buildings have been converted to more efficient natural gas heating (versus inefficient steam heating), with an additional building being converted to high efficiency HVAC and natural gas starting in 2024.
- Continued reduction in fuel consumption by optimizing of the duration and frequency of standby generator safety system tests.
- Assessing opportunities for fleet Electric Vehicle (EV) upgrades and fleet use optimization strategies, including fleet size reduction, vehicle sharing, and anti-idling strategies.
- Exploring opportunities for renewable diesel use in fleet vehicles.

- Installation of EV infrastructure for fleet and employee use.
    - 18 EV charging stations on site, with the capacity to charge 36 vehicles.
- Upgrading interior and exterior lighting to LED.
- Integrating Building Automation Systems (BAS) into buildings allowing temperature to be monitored and adjusted remotely based on occupancy timing and requirements.
    - BAS added to an additional building in 2024.
- Evaluating additional metering opportunities in buildings to measure usage and identify reduction opportunities.
- Building temperature setpoint optimization to reduce energy use while maintaining acceptable occupant comfort.
    - Initiative began in 2023 and continued through 2024.
- Regular inspection and maintenance of refrigeration equipment to reduce leaks of halocarbons.
- Major HVAC replacement projects using refrigerants with lower global warming potentials and zero ozone depletion potential.

As a part of monitoring our performance against our Net Zero 2027 targets, Bruce Power continues to track the results of implemented emissions reduction initiatives. A reduction in steam consumption as buildings transition to natural gas heating resulted in a decrease in scope 2 emissions of 979 tCO_2e. A reduction in electricity consumption from 2023 due to a decrease in outages resulted in a decrease in scope 2 emissions of 1,250 tCO_2e.

We continue to identify and implement emissions reduction initiatives in our operations, however, where further reductions are not achievable in a given year to meet targets, offsets will be utilized, including those generated from more local projects that we have funded under the Carbon Offset Accelerator Fund.

ALUS New Acre Project: Farmer-Delivered, Nature-Based Climate Solutions

To further progress towards emission-reduction goals, Bruce Power is a proud sponsor and partner on the ALUS New Acre Project, and 2024 marks the third and final year of this partnership, in collaboration with the Nuclear Innovation Institute (NII). This nature-based carbon offset initiative, funded by Bruce Power's Carbon Offset Accelerator Fund, focuses on carbon sequestration opportunities and the protection and enhancement of local ecosystems through nature-based projects on agricultural land in Bruce and Grey Counties. The New Acre Project identified additional acres of nature-based solutions for implementation each year over the three-year partnership (2022 – 2024), totaling 600 acres. While the partnership ran for three years, it is worth noting that each project has a five-year agreement, that requires participants to manage and maintain these projects over that duration, ensuring that these acres will provide environmental benefits for at least five years.

In May 2025, ALUS released the Year 3 Final Project Report on Bruce Power's three-year investment in farmer-delivered, nature-based climate solutions. This initiative continues to make significant strides toward achieving sustainability goals, with key achievements over the course of the project.

- **Year 2 Achievements**: In the second year (2023) of involvement, support was distributed to 22 farmers, enabling the creation of an additional 200 acres of nature-based projects. These projects were expected to remove 860 tonnes of carbon dioxide equivalent (tCO_2e) emissions over five (5) years. This projection has been updated, to 1,992 tonnes of carbon dioxide emissions over five years, because of a refinement to the methodology. In 2025, total carbon sequestration estimates were updated for previous years using an area-based formula to account for biomass carbon across all woody vegetation, including trees, shrubs, and understory growth. This approach expands on previous reporting, which only accounted for carbon sequestration from newly planted trees.

- **Year 3 Progress and Projections:** Farmers in Bruce and Grey Counties once again met the 200-acres annual target in Year 3 (2024). A total of 27 participants enrolled projects in 2024, bringing the three-year total to 63 unique participants, and pushing the total project area to 600 acres fulfilling the three-year target set for the program. Preliminary estimates for the 2024 projects suggest a carbon dioxide equivalent reduction of 2,551 tonnes over five years, subject to final site visits and satellite reviews in 2025, bringing the total carbon sequestered over the course of the investment to 6,577 tCO_2e over five years.

- **Technological Advancements:** In 2024, data was collected from over 300 sampled tree plots, measuring height and diameter at breast height (DBH) for all trees above 2.5 cm DBH. Additionally, 150 grassland sites were surveyed using on-field soil sensor technology. This data will support the evaluation of scalable technology solutions for generating precise, site-specific carbon estimations, and guiding the development of robust monitoring data protocols.

- **Methodology Validation:** In 2025, ALUS' Environmental Benefits CO_2 Quantification Methodology was successfully validated by an accredited third party, marking a significant milestone in the development of ALUS' quantification efforts. Consequently, the carbon credits eligible for issuance will adhere to rigorous verification standards, likely resulting in lower credit issuance compared to the total estimated carbon sequestered by ALUS projects. This innovative methodology opens future opportunities for certified carbon credits and reflects the on-the-ground realities of farmers and ranchers who have established nature-based projects.

This initiative demonstrates a strong commitment to nature-based emission-reduction solutions, enabling local farmers to actively contribute to carbon sequestration efforts and the enhancement of local ecosystems while making use of their marginalized and unused farmland.

Incremental Output Offset Protocol for Nuclear

In an innovative move for the industry, Bruce Power, in collaboration with GHD, developed the Quantification Protocol for Incremental Output of Nuclear-Powered Electricity Generation. Bruce Power announced our commitment to developing this protocol, at the 28th Conference of the Parties of the United Nations Framework Convention on Climate Change (COP28) in Dubai in December 2023.

The protocol focuses on leveraging clean, low-carbon nuclear-powered electricity generation to address the growing demands for non-carbon emitting energy sources and to enable consumers and businesses to further decarbonize through electrification in a low-carbon intensity grid. The protocol is designed to describe and quantify the carbon offsets generated by replacing or avoiding fossil-fuel-generated electricity through the incremental output of existing non-carbon emitting nuclear power generation facilities.

In 2024, the protocol was validated and the associated GHG Report, focused on the generated carbon offsets associated with P2030 incremental generation between 2022 - 2024, was verified by accredited third party organizations. Bruce Power continues to work towards having these credits registered on a reputable registry, such as the CSA GHG CleanProjects® Registry.

Carbon Offset & Credit Policy

In 2024, Bruce Power introduced our Carbon Offset & Credit Policy. The policy applies to both carbon offsets and Clean Energy Credits (CECs) utilized as part of our Net Zero Strategy and serves to build greater transparency and trust in the market items supporting our Net Zero Strategy. The commitments outlined in this policy are considered above the price of the carbon offsets and CECs to maximize benefits to the environment, the people who live and work in the area, and the Canadian economy.

Climate Change

Climate-related risks can affect several important aspects of an organization's operational and financial performance. At Bruce Power, we are actively continuing to integrate principles and recommendations from the Task Force on Climate-Related Financial Disclosures (TCFD) to assess and disclose actual and potential impacts of climate-related risks and opportunities on our short-, medium-, and long-term business strategy.

Governance

Oversight of climate-related risk (i.e., threats and/ or opportunities) is incorporated in Board-level governance through the Board's Risk Review Committee. On a quarterly basis, a high-level climate change risk profile is provided to the Risk Review Committee for review, discussion, and decision on action items as appropriate.

More detailed climate change risk factors are assessed and addressed by management through governance and procedures as defined by Bruce Power's Management System Manual, including safety analysis, engineering, operations, asset management, emergency response, and business planning.

Strategy

The climate change risk profile includes drivers and impacts over the short (i.e., one to three years), medium (i.e., four to 10 years), and long term (i.e., > 10 years).

Changing local, regional, and global environment conditions could have potential negative impacts to Bruce Power's operations, plant, and infrastructure assets. These are described in more detail in the "Risk Management" section of this report. Additionally, local and global climate change has potential negative impacts to regulatory and financial management factors. There are also several potential positive impacts and opportunities identified, including the Net Zero Strategy, sustainable financing, generation of Clean Energy Credits, and trading markets.

Potential threats and opportunities of climate change are included in the business planning cycle, and where significant, are also reviewed with the Board at their annual Strategic Planning session.

Risk Management

Monitoring, Resilience and Adaptation

Bruce Power goes beyond regulatory compliance by driving innovation and strategic research in environmental protection, including assessment and analysis of how the environment is changing and impacting our site and operations. We have worked with multiple partners to better understand climate change impacts and vulnerabilities on Lake Huron with a focus on the area near the facility. We have extended this assessment to the Bruce, Grey, and Huron regions, with a focus on municipal and agricultural sectors, as we continue to work with Indigenous Nations and Communities to deliver on improved understanding and potential advanced solutions to build resiliency. Bruce Power and NII launched The Climate Project which is an accessible online hub and outreach program. It serves as a resource for sharing localized scientific research on climate change from sources including academia, governments, Indigenous Nations and Communities, conservation authorities, NGOs, and industry partners. Specifically tailored to the Saugeen and tri-county region (including Bruce, Grey, and Huron Counties), The Climate Project aims to address pressing questions about how climate change is impacting our air, land, and water. The data from The Climate Project will support development of climate resilience solutions and inform cumulative effects assessments.

A large supply of cooling water is an inherent design requirement for the operation of CANDU reactors and the location of our business along the Lake Huron shoreline results in unique interactions with the natural environment. Understanding that changing environmental conditions pose a risk to power production resiliency and reliability, Bruce Power has engaged in understanding these risks by tracking environmental trends, contributing to modelling efforts, participating in programs aimed at characterizing these risks, and disseminating learnings and insight across the company and with our industry peers and stakeholders.

Bruce Power has contributed to modelling the future impacts of climate change to mid-century through two efforts. The first effort, by Golder Associates Ltd (now WSP), consisted of climate change modelling of the specific impacts to Lake Huron, including changes to air temperatures, water temperatures, and water levels. The changes to water temperatures were modelled with and without the effect of Bruce Power's operations. The second effort, by the Climate Risk Institute, focused on the broader impacts of a changing climate and how these would affect Indigenous Nations and Communities and agricultural activity in the Bruce, Grey, and Huron Counties of SON Territory. These efforts included engagement with Saugeen Ojibway Nation, the Métis Nation of Ontario, and the Historic Saugeen Métis to ascertain the potential impact of predicted climate change effects on habitats and species prioritized by each community.

To better understand how climate change might impact resilience and reliability, Bruce Power is participating in Electric Power Research Institute's (EPRI) Climate Resilience and Adaptation Initiative (Climate READi) and Climate Hazard Information and Projection (CHIP) programs. These programs aim to develop a common framework for physical climate risk assessment, which includes facilitating climate data analysis and application to enhance planning, design, operation, and infrastructure investment. Representatives from Environment, Engineering, and Risk and Business Strategy serve as technical advisors on behalf of Bruce Power and facilitate the incorporation of EPRI learnings into operational and asset management decisions.

In March 2024, the Institute of Nuclear Power Operations (INPO) released INPO-24-002, Climate Vulnerability Assessment, a guidance document which was developed in alignment with EPRI Climate READi. Throughout 2024, Bruce Power worked with Kinectrics on a Climate Vulnerability Assessment (CVA) to identify local climate hazards and assess equipment which is exposed and potentially vulnerable to those hazards. The CVA empowers Bruce Power to create mitigation strategies and enhance governance, boosting the resilience and reliability of site operations in the face of climate change.

Bruce Power monitors changing environmental conditions, focusing on historical trends, current conditions, and climate projections. The physical climate variables examined include air temperature, wind, precipitation, extreme events, ice cover, lake water level and temperature, and risk of condenser cooling water (CCW) blockages due to changing ecological conditions (e.g., fish, mussels, algae). Changing environmental conditions, such as water levels and increased water temperatures, are of particular interest and are compared to the design basis of equipment to verify resilience to changing environmental conditions over the life of equipment and extreme weather events.

Provided below is a summary of the short- and long-term changes in air temperature, ice cover, precipitation, wind, lake water levels, water temperature, and debris loading that Bruce Power currently reviews and assesses potential impacts, under the suite of Climate Change Metrics. Bruce Power uses this information as part of our evaluation of resilience measures in a forward-looking assessment and is provided here for general sharing of the information with the local community.

Key Environmental Trends

Air Temperature

Data collected from meteorological towers on the Bruce Power site over the past 10 years show a statistically significant trend with Mean Annual Air Temperature approximately 0.25°C/year. Under the worst-case scenario (Shared Socioeconomic Pathway 8.5) Mean Annual Air Temperature (MAAT) could reach approximately 10°C by 2030 (compared to 7.7°C in 2022).Under this same worst-case scenario, highest daytime temperatures could reach approximately 35°C by 2030 (compared to 32°C in 2022).While this worst-case scenario may not represent the most-likely scenario, air temperatures are expected to increase under all scenarios projected out to 2030.

Wind, Precipitation, and Extreme Weather

In our region, the highest wind speeds occur in fall and winter. High variability and high uncertainty prevent accurate forecasting of wind speeds; however, current modelling suggests that wind speeds will not change substantially. Local precipitation around Bruce Power is highly variable with approximately 230 mm falling in summer 2021, and only approximately 15 mm falling in summer 2022. Only modest increases in precipitation are projected for the next few decades; however, as extreme weather events are projected to increase, it is expected that the area would experience an increase in the risk of flooding and infrastructure damage caused by high winds and heavy precipitation over short time periods.

Ice Cover, Water Level, and Water Temperature

Duration of seasonal ice cover has decreased in recent years and is expected to continue to decrease with increased air temperatures. Water levels are decreasing from the high levels experienced in 2019 and 2020 and are expected to continue to decline in the short-term. Water levels are challenging to accurately model over longer time spans, but high variability is anticipated. Water temperatures in Lake Huron have been increasing over the past few years (3°C over 6 years) and are expected to increase over the next several decades with increasing air temperatures.

Fish, Algae, Mussels, and Other Debris

Annual fish impingement has remained relatively stable over the past decade, with higher impingement rates in the winter months. A cold snap in February 2023 led to higher-than-expected amount of impinged Gizzard Shad, a fragile species which is known to be prone to cold shock. The annual accumulation of algal and macrophyte biomass was high from 2017-2021, but has decreased over the past couple of years, which may be attributed to changing water levels. Terrestrial debris was also high from 2017-2021 and has been decreasing in recent years. Mussel abundances have been variable year to year but are consistently lowest towards the end of winter and into spring, and higher the rest of the year.

The design and use of existing mitigation technologies has been implemented to minimize impingement and entrainment and thermal impacts to the greatest extent possible. High impingement of Gizzard Shad challenged operations in February 2023. In February 2025 a cooling water blockage challenged operations due to a larger impingement of Gizzard Shad. A Root Cause Investigation was completed to identify the direct cause and contributing causes. Corrective actions are in progress to address the identified causes.

Dose to Public

As part of the regulatory requirements, Bruce Power must calculate and report its contribution to radiological exposure dose to members of the public on an annual basis.

For the thirty-third consecutive year, Bruce Power's contribution to the annual dose of a member of the public is less than the lower threshold for significance (less than 10 microsieverts per year) and is considered de minimus.

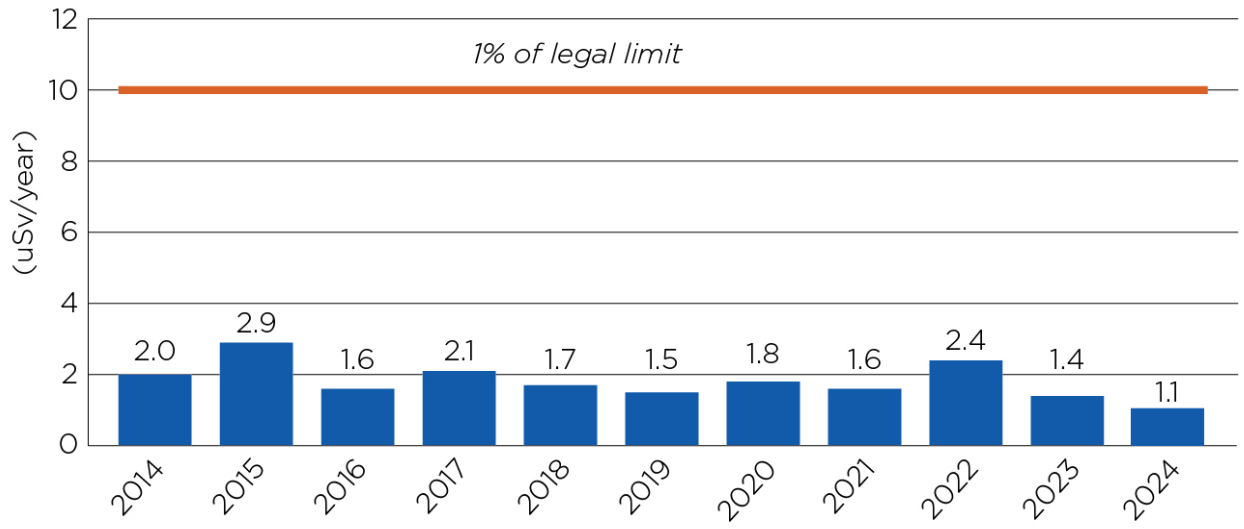

Figure 4
Graph Illustrating Bruce Power's Contribution to the Annual Dose of a Member of the Public, and the Threshold for Significance (10 Microsieverts per Year)

Non-GHG Emissions, Effluents, and Waste

Waste Management

Bruce Power manages many different forms of the waste generated by operations, including hazardous waste (e.g., oils, chemicals, lighting lamps, and ballasts – some of these are recycled), recyclable waste (e.g., glass, plastic, metal, cardboard, paper, wood, batteries, and electronics), organic waste (e.g., compost), conventional waste (e.g., destined for landfill), and radioactive waste in partnership with Ontario Power Generation (OPG).

As part of our Waste Management program, Bruce Power complies with all relevant waste regulations and requirements of the federal, provincial, and municipal authorities. Further, Bruce Power continues to take an active role in reducing all forms of waste, which provides environmental and financial benefits to the company and the community in which we reside. Our philosophy employs a whole life-cycle approach to reduce waste at the consumer level, generate less waste at the company level, find opportunities to reuse products (e.g., on-site / off-site donations or sell them at auction), and implement recycling programs that are available in the ever-changing recycling market. To minimize the amount of waste sent to landfill, Bruce Power has implemented several initiatives that apply the principles of refuse, reduce, reuse, repurpose, and recycle. Wherever its fate, each waste stream generated at Bruce Power is processed and disposed of in a safe and environmentally responsible manner and at a minimum, in compliance with all applicable regulations.

Conventional Waste

The primary objectives of the Conventional Waste Program are to process conventional waste in a safe and environmentally responsible manner while achieving waste minimization through the application of refuse, reduce, reuse, repurpose, and recycle principles. Bruce Power's Conventional Waste Program ensures that safety is the paramount consideration, guiding decisions and actions by complying with all regulatory requirements, including:

- The Ontario Environmental Protection Act
- Ontario Regulation 347, General - Waste Management
- Ontario Regulation 103/94, Industrial, Commercial and Institutional Source Separation Programs
- Resource Recovery and Circular Economy Act, 2016 (RRCEA)
- Ontario Regulation 102/94, Waste Audits and Waste Reduction Work Plans
- Ontario Regulation 153/04, Record of Site Condition
- Transport Canada's Transportation of Dangerous Goods (TDG) Act, when transferring waste to a landfill

Management of conventional waste includes all non-hazardous and non-radiological items: recyclables, compost, and waste destined for landfill, as defined in Ontario Reg. 103/94.

Under the Environment Protection Act, Bruce Power is a large manufacturing establishment and is mandated to have recycling programs in place for the following materials:

- Aluminum
- Cardboard (corrugated)
- Fine paper
- Glass

- Newsprint
- Polyethylene (high density) jugs, pails, crates, totes, and drums
- Polyethylene (linear low density and low density) film
- Polystyrene (expanded) foam
- Polystyrene trays, reels, and spools
- Steel
- Wood (not including painted, treated, or laminated wood)

The Conventional Waste Program demonstrates our values of uncompromising high standards by not only meeting regulatory requirements, but going above and beyond by implementing 16 additional source separation programs on site, including:

- Compostable paper towels
- Boxboard / cardboard
- Food waste
- Yard waste composting
- Batteries
- Office supplies / stationery
- E-waste
- Hard hats
- Styrofoam
- Binders
- Confidential shredding
- Fine white paper
- Mixed paper
- Film plastic
- Wood
- Metal

As per Ontario Reg. 102/94, Bruce Power must also perform an annual conventional waste audit completed by a third-party vendor. The auditor's assessments consistently show that Bruce Power is performing well in comparison to other large industrial facilities. In 2024, Bruce Power achieved a 70.5 per cent diversion rate, with approximately 66 per cent of waste material recycled via several different recycling streams and five per cent of material diverted by composting. In 2025, we continue to look for opportunities to improve our waste reduction and diversion performance.

2024 Waste Reduction and Diversion Initiatives

- On-site Styrofoam recycling densification program.
- On-site hard hat and safety glasses recycling program.
- On-site binder recycling and reuse program.
- Completed the installation of touchless water bottle fountains in the site stations. Fixture installation and upgrades continue at centre of site to facilitate the use of reusable water bottles.
- E-waste recycling / reuse relationship with Hi Tech.
- Increased waste oil recycling volumes from 24 per cent in 2021 to 60 per cent in 2024.
- Eliminated the use of single use plastics such as straws, coffee stir sticks and plastic cutlery.

2024 Waste Reduction and Diversion Highlights

- More than 80 metric tonnes of e-waste and batteries were recycled by Bruce Power in 2024.
- 35 cubic yards (1,338 kg) of Styrofoam was collected and recycled in 2024 through the densification program.
- 2 medium (80 L) TerraCycle boxes of stationery items were collected and sent for recycling.
- 1,478 binders were deconstructed for recycling through Bruce Power's binder recycling and reuse program.
- 572 binders were donated to schools for reuse.
- 24 cases of cardboard were donated for reuse and 113 kg of scrap metal was recycled from the deconstructed binders.

In accordance with the Government of Canada's Single-use Plastics Prohibition Regulations (SUPPR), Bruce Power's on-site cafeterias eliminated the use of single use plastics including straws, coffee stir sticks and plastic cutlery in 2023. In 2025, the site's main administration building cafeteria launched a reusable container program in partnership with Friendlier, a leading Canadian clean-tech reusable packaging company. Meals from the cafeteria are served in Friendlier reusable containers. Once meals are finished, empty containers are returned to collection bins, where they are collected by the Friendlier program, washed and sanitized, and delivered back to be reused. This initiative aims to reduce waste from disposable food packaging by offering reusable plastic cups and containers for on-the-go meals.

In addition, Bruce Power continues to improve signage and messaging across site in accordance with the site's Waste Reduction Work Plan, prepared in compliance with Ontario Regulation 102/94, Waste Audits and Waste Reduction Work Plans. Signage updates, which include pictures of common waste types, are done regularly to reflect changes in products and packaging offered on site. Internal communications, including articles in the company newsletter and segments in the monthly safety videos, were also used to encourage employees to divert their waste correctly.

In 2024, Bruce Power focused on additional utilization of the programs available under the Resource Recovery and Circular Economy Act, 2016. By seeking out partnerships with Producer Responsible Organization (PRO) Bruce Power ensures we are participating in the Individual Producer Responsibility (IPR) framework. A PRO is a business established to contract with producers to provide collection, management, and administrative services to help producers meet their regulatory obligations, arranging the establishment or operation of product collection and management systems (e.g., hauling, recycling, reuse, or refurbishment services) and establishing or operating a collection or management system. By utilizing these systems, we ensure that the disposal cost associated with these regulated products are going back to the producer, which in turn encourages better and more efficient recycling and disposal processes and products with less waste. In 2024, the Conventional Waste Program at Bruce Power focused on utilizing O. Reg. 30/20 - Batteries, for battery recycling; and O. Reg. 522/20 - Electrical and Electronic Equipment (EEE), for battery and lightbulb recycling. In 2025, we plan to utilize O. Reg 522/20 to ensure e-waste disposal costs are directed to producers as well.

Hazardous Waste

Bruce Power's Hazardous Waste Program must comply with applicable federal, provincial, and municipal laws and regulations as well as corporate requirements affecting the generation, handling, storage, and disposal of hazardous waste while ensuring the health and safety of personnel, the public, and the environment. These regulations include:

- The Ontario Environmental Protection Act
- Ontario Regulation 347, General - Waste Management
- Ontario Regulation 362, Waste Management – PCBs
- Canadian Environmental Protection Act, PCB Regulations (SOR/2008-273)
- Environment Canada, Compliance Promotion Guide on PCB Regulations Requirements

Beyond compliance, Bruce Power aims to minimize the generation of hazardous waste and ensure effective and protective life cycle management. Hazardous waste generated on site, such as chemicals, oils, batteries, and fluorescent tubes, are carefully tracked to ensure they are safely disposed of or recycled in accordance with applicable regulatory requirements. Bruce Power has an excellent network of external waste vendors, certified to carry and/or receive hazardous waste, that we work with to dispose of all our hazardous waste streams in an industrially and environmentally safe manner.

The Hazardous Waste Program also includes the management and oversight of the Polychlorinated Biphenyls (PCB) phase out on site, which align with federal requirements. Bruce Power is currently on track to meet these requirements for removal by December 2025.

Waste Oil Recycling

In 2021, Bruce Power committed to developing a recycling program whereby oils and lubricants can be re-used as lubricants once water and solvents are removed. The goal of the program was to divert at least 10 per cent of the company's oil waste to a recycling stream.

In 2021, approximately 24 per cent (> 105,000 L) of waste oil was recycled through this program. In 2022, a significant amount of transformer replacement work was performed across the site, and, overall, 87 per cent (> 612,000 L) of the waste oil generated was recycled. Due to the success of the program, we have increased our target to 50 per cent of oil to be recycled annually. In 2024 Bruce Power exceeded this goal recycling 60 per cent of all oil disposed of in the calendar year (> 138,147 L of oil).

Radioactive Waste

Bruce Power manages and fully funds the management of its radioactive waste in partnership with Ontario Power Generation (OPG). Since the 1970s, OPG has responsibly managed radioactive waste from the Bruce A and Bruce B Generating Stations. Waste is currently stored on site by OPG on an interim basis until long-term disposal facilities are established.

Radioactive Waste Management

- All energy-producing industries create waste. The nuclear industry is the only energy-producing technology that takes full responsibility for all of its waste.

- Maintenance and projects (e.g., Major Component Replacement) are planned, to the extent practical, with a focus on minimizing waste generation.

- Initiatives are continually explored and implemented to reduce radioactive waste volumes to be stored and disposed of in the future, thereby working towards minimizing the overall environmental footprint and minimizing costs to Ontario electricity ratepayers.

- Radioactive waste management (e.g., handling, transport, and storage) is highly controlled and regulated by the Canadian Nuclear Safety Commission (CNSC), one of the world's most well regarded nuclear regulatory authorities.

- The nuclear industry is advancing long-term solutions for radioactive waste. In Canada, waste generators and waste owners are responsible for the funding, management, and operation of interim and long-term waste management facilities so that future generations of Canadians are not burdened with the cost. Early and ongoing input from Indigenous peoples and Canadians is essential to plan our radioactive waste projects in an open and transparent manner.

- The Nuclear Waste Management Organization (NWMO) is responsible for Canada's plan for the safe, long-term management of used nuclear fuel. Since 2010, the NWMO has been engaged in a multi-year, community-driven process to identify a site where Canada's used nuclear fuel can be safely contained and isolated in a Deep Geological Repository (DGR)

which will protect people and the environment for generations. The site selection process is designed to ensure that the site selected is safe, secure, and has informed and willing hosts. Bruce Power supports the NWMO in its activities to build an understanding of the proposed DGR, including the potential benefits and impacts to the host region.

- Deep Geological Repositories (DGRs) are the world's scientifically accepted method for long-term storage of used nuclear fuel. Many countries, which have benefitted from nuclear power for decades, are progressing plans for DGRs. Canada interfaces with other countries to share and advance best technologies.

- Until a DGR is constructed and placed into operational service, used nuclear fuel will continue to be safely stored on the sites of Canada's nuclear generating stations, under tight safeguard controls imposed by the Canadian Nuclear Safety Commission and the International Atomic Energy Agency.

In 2024, The Nuclear Waste Management Organization (NWMO) selected the Wabigoon Lake Ojibway Nation (WLON) and Ignace area as the site of Canada's repository for used nuclear fuel. The decision comes following a 14-year process to select the site for Canada's plan to safely manage used nuclear fuel for the long term. Before the site was selected, communities had to confirm that they are willing to host it through community-driven processes for defining willingness. Ignace residents voted in a strong majority to move ahead with the project and the Wabigoon Lake Ojibway Nation community members also voted 'yes' in a willingness referendum.

For more information on Radioactive Waste Management, visit the NWMO website.

Non-GHG Emissions and Effluents

Bruce Power performs extensive modelling of its air emissions for conventional contaminants (i.e., hydrazine, morpholine, sulphur dioxide, and manganese) to ensure that releases occur within acceptable limits set by the Ministry of the Environment, Conservation and Parks.

Water effluent characterization and analysis is performed primarily by station chemistry labs, with robust Quality Assurance and Quality Control (QA/QC), for water effluent emissions (including hydrazine, metals, total suspended solids, etc.) to ensure provincial limits are met. Bruce Power also conducts acute lethality testing at specific effluent control points, including the end of the cooling water discharge duct.

To demonstrate environmental protection, radiological airborne emissions and waterborne effluents are monitored to ensure that releases are occurring within acceptable limits and remain as low as reasonably achievable (ALARA). Radiological airborne emissions and waterborne effluents are reported to the Canadian Nuclear Safety Commission (CNSC) quarterly and are compared to internal administrative levels in addition to reportable regulatory levels and limits. In 2024, all radiological airborne emissions and waterborne effluents at Bruce Power continued to remain well below Derived Release Limits, which are regulatory limits developed using Canadian Standards Association Standard N288.1.

The National Pollutant Release Inventory (NPRI) is a legislated, publicly accessible inventory of pollutant releases, disposals, and recycling from industrial, institutional, and commercial facilities. The NPRI is a major starting point for identifying and monitoring sources of pollution in Canada, and in developing indicators for the quality of our air, land, and water. Bruce Power reports on contaminants released to air, water, and land on an annual basis through NPRI and evaluates ways to reduce chemical use and associated emissions as part of pollution prevention plans. For more information on our non-GHG emissions and effluents, please refer to Bruce Power's 2024 Environmental Protection Report.

Water Resource

The Bruce Power site is located within the Saugeen Watershed along the eastern shores of Lake Huron. Lake Huron is the eighth largest lake in the world by volume at 3,540 km^3.

The cold, deep water of Lake Huron is Bruce Power's source for domestic needs, including drinking water. It is also used across the site in firewater systems, demineralization plants, and once-through-cooling systems that cool and condense low-pressure steam before it is returned to our boilers. More than 99.99 per cent of the water drawn by Bruce Power's operations is returned to the lake. This process is highly regulated, including provincial permits for water taking and imposing protective limits on water quality for water returned to the lake.

As an operation that takes more than 50,000 litres of water per day from a lake, river, stream, or groundwater source, Bruce Power must obtain a Permit to Take Water (PTTW) from the Ministry of Environment, Conservation and Parks (with a few exceptions). These permits help to ensure the conservation, protection, management, and sustainable use of Ontario's water. A permit will not be issued if the Ministry determines that the proposed water taking will adversely impact existing users or the environment. Bruce Power has a separate PTTW for Bruce A, Bruce B, and Centre of Site (COS).

Bruce Power continued to remain in compliance with all PTTW requirements in 2023. Further information on this can be found in Bruce Power's 2024 Environmental Protection Report.

In support of the conservation, protection, management, and sustainable use of Ontario's freshwater resources, Bruce Power monitors water usage and reports on daily amounts drawn. Beyond considerations of water quantity management, we are committed to monitoring and ensuring the protection of the quality of water, and our fish habitats near site shorelines and the greater region.

In addition to the permitting process, our Environmental Monitoring Program conducts extensive year-round sampling to verify the protection of the local environment. This includes water temperature and water quality sampling on site and in Lake Huron and routine monitoring of soil, sediments groundwater, vegetation, and wildlife. Environmental monitoring (i.e., measurement, sampling, and analysis) ensures that the health of the environment and people are protected and verifies that emissions and effluents from operations result in negligible environmental risks.

In 2024, Bruce Power's net annual water consumption from Lake Huron was 2.04 million cubic meters, staying below our targeted threshold of 2.3 million cubic meters.

Domestic water is consumed by Bruce Power employees and visitors as drinking water, and it is also used for washing and other sanitation needs. Bruce Power operates a provincially regulated sewage treatment plant on-site, where all the domestic water consumed on-site is returned to the lake after treatment. Some of the water drawn for operational needs at Bruce Power is demineralized on-site and is then used to generate electricity in steam-powered turbines.

Land Use and Biodiversity

Bruce Power is home to a diverse natural environment that contains more than 235 species of plants and more than 270 species of wildlife. The protection of these species and the habitats that support them is a priority for our Environmental Protection Program.

In 2020, Bruce Power set an internal target to protect 887 hectares (ha) of high-quality habitat on-site or ensure the protection of an equivalent amount off-site if specific refurbishment support activities required further development on site. This target was established from an Ecological Land Classification study completed in 2017 that demonstrated 55 per cent of the Bruce Power site and surrounding lands (equivalent to 887 ha) was composed of undisturbed forest, open, or wetland habitats.

As we prepare for and conduct our Major Component Replacement (MCR) project, there are times when development is essential to support the continued generation of non-carbon emitting electricity through our Life-Extension program. Seven hectares of land was cleared at Bruce Power to construct a training simulator and create additional parking capacity. At the same time, Bruce Power worked with organizations like the Nature Conservancy of Canada, Ontario Nature, and Bruce Trails Conservancy to acquire and permanently protect over 60 ha of high-quality habitat from future development to compensate for this land clearing, significantly surpassing our target.

In 2024, Bruce Power published an official Biodiversity Policy. This policy is an extension of our Environment & Sustainability Policy and outlines a commitment to the protection of biodiversity on and off-site through actions and initiatives that preserve and enhance natural habitats and ecosystems.

In 2024 Bruce Power initiated field work to update the Ecological Land Classification and wetland mapping of the site. The output will be used to inform land use planning on site and the baseline for the Bruce C Impact Assessment.

Participation in The Lang Sustainability Conference

Bruce Power recognizes the value that is derived from moving from a qualitative to quantitative management approach in supporting the protection of the environment and areas surrounding our site. To evolve our program and support innovation and education, Bruce Power participated in the Lang Sustainability Conference at the University of Guelph as the Title Sponsor in early 2025.

For the conference, Bruce Power was asked to submit a case that reflected a relevant sustainability-related business problem that the business is currently facing. The team decided to focus on the development of biodiversity metrics that Bruce Power could implement in their annual sustainability reporting. The research, innovation, and practical solutions put forward by the students are currently under review, alongside the findings of the materiality assessment, for incorporation into our program as we move into 2025 and beyond.

Phragmites australis Removal

Bruce Power has undertaken significant effort over the years to protect Baie du Doré, an ecologically sensitive and provincially significant coastal wetland adjacent to the site. Beginning in 2018, Bruce Power partnered with the Invasive Phragmites Control Centre (IPCC) to remove Phragmites australis (Phragmites) from Baie du Doré and the nearby Lake Huron shoreline. Invasive Phragmites is Canada's worst invasive plant because it aggressively spreads and degrades the habitat and biodiversity of endemic plants and animals. Vegetation surveys completed in 2014 found that high-density invasive Phragmites was established in approximately 60 per cent of the 107-ha wetland. Removal began in 2018 and in 2023 only two small high-density stands remained in Baie du Doré.

In 2024, control work in Baie du Doré occurred over 14 days between June and November, including treatment of low- to intermediate-density Phragmites in dry areas throughout a 31.6 ha area with herbicide by crews walking with backpack spray units. A 0.6 ha high-density cell was also treated using a Truxor retrofitted with herbicide application equipment. Truxors and Stihl brush cutters were used to remove standing dead stalks in a combined approximate 1.2 ha area, and cane cutters were used to cut-to-drown sparse Phragmites intermixed with native wetland plants throughout an approximate 1 ha area. Monitoring will be undertaken in the summer of 2025 to determine the extent of remaining Phragmites in Baie du Doré.

Bruce Power and the IPCC will collaboratively remove remaining high-density Phragmites and move into the next phase of management to target low- and intermediate-density Phragmites areas and prevent high-density areas from re-emerging for the long-term.

In addition to Baie du Doré, Bruce Power has supported the IPCC, and many other groups and Indigenous Nations and Communities, with Phragmites control along the Lake Huron shoreline from the Fishing Islands, near Oliphant, south to Lambton Shores, Ontario. Environmental monitoring is a key component of this work and monitoring of the health of fish and plant populations in Baie du Doré, the Fishing Islands, and Lambton Shores has been ongoing since 2017.

Fisheries Improvement Initiatives

Bruce Power is a proud supporter of many fishery enhancement initiatives across Ontario. As part of its Fisheries Act Authorization, Bruce Power has funded and supported the removal of the Truax Dam in Walkerton, Ontario so that fish in the Saugeen River could freely pass upstream. This was the largest dam removal in Ontario, in recent times, and helps all types of fish - from rainbow trout and salmon, that are highly sought after by anglers from around the

world, to smaller fish such as minnows, shiners, dace, and chub, that inhabit important ecological niches within the Saugeen River.

Six years of fish biomass monitoring has been completed in the river and its upstream tributaries (two years before and four years after the dam was removed). Results from this monitoring show that by removing the Truax Dam, fish production upstream in the Saugeen River has significantly increased, compared to when the dam was in place. Variations in the production occur from year to year, but the highest gains seen so far were in 2024, with 2,740 kg per year. Additional gains in fish production are expected in future years, including the upstream tributaries, such as Otter Creek and the Beatty Saugeen River.

Figure 5
Aerial Tracking of Fish Biomass

Figure 6
Electrofishing as Part of Biomass Surveys

Bruce Power continues to work with many other community groups to improve fish habitats within Lake Huron and inland waterways. Since 2017, Bruce Power has supported a large effort to remove dense pockets of Phragmites from approximately 110 ha of the Fishing Islands, a culturally and environmentally rich coastal wetland habitat that is threatened by invasive Phragmites. Bruce Power provides funding and technical expertise to support the work of the IPCC and its partners. In 2021 the collaboration expanded to include the Historic Saugeen Métis. The combination of western science and Indigenous Knowledge has resulted in a well-rounded approach to removing the Phragmites, allowing for endemic vegetation to be restored and important fish-rearing habitat to be maintained. As of the end of the 2022 season, all high-density Phragmites was eradicated from the Fishing Islands. Work continued in 2023 and 2024 to remove dead standing stalks of high-density stands and to treat and remove low-to-intermediate density stands of Phragmites. Ongoing monitoring throughout this project has demonstrated that high-density stands support lower fish and vegetation diversity compared to intermediate- and low-density stands, reinforcing the need for continued management efforts to prevent the development of high-density Phragmites stands.

The Saugeen Ojibway Nation (SON) and Bruce Power are working to develop possible fisheries offset projects that would benefit the Lake Huron ecosystem in SON Territory. SON has led multiple aquatic monitoring projects throughout their Territory to understand and support aquatic ecosystems, including the Coastal Waters Monitoring Program (CWMP), which is supported by Bruce Power. We hope to build on this work to develop a meaningful project together, with SON knowledge as our foundation.

Finally, in consultation with the Métis Nation of Ontario, a project plan was drafted in 2023 to improve fish habitat and restore connectivity in Bothwell’s Creek, near Leith, Ontario. Bothwell's Creek is a location that the Métis Nation of Ontario has identified as an important area for fishing and recreation, however, a decline in fish spawning has been noticed over the past decade. A decline in habitat quality due to erosion and sedimentation, loss of riparian vegetation, and a build-up of debris (e.g., fallen trees) posing a barrier to fish migration are thought to be the leading causes of the observed decline in fish in the creek. Together with Bruce Power and the Grey Sauble Conservation Authority, the Métis Nation of Ontario removed large debris from the stream to improve stream connectivity and flow and organized a community event where 50 white cedar trees were planted along more vulnerable stretches of the stream bank. The formal project plan was submitted to Fisheries and Oceans Canada (DFO) in October 2023 and has been incorporated into the Bruce Power Fisheries Act Authorization. Bruce Power and the Métis Nation of Ontario have also partnered with Freshwater Conservation Canada (previously Trout Unlimited) to conduct water temperature monitoring and redd surveys in Bothwell’s Creek to better understand the health of the creek and guide future habitat rehabilitation work.

Partnerships with Community Organizations and Local Government

Bruce Power partners with community organizations and local government on initiatives that have a positive impact on the environment and/or help to better understand the effects of climate change. One example of this is the financial support that Bruce Power provided to the Saugeen Valley Conservation Authority (SVCA) in 2023 to upgrade the stream gauge monitoring station in Paisley, Ontario. Improvements include replacement of outdated and failing equipment, a new well cover and development of a rating curve. The Paisley stream gauge monitoring station is an important element of the SVCA's Flood Forecasting and Warning System. In 2025, Bruce Power will partner with SVCA to conduct a benthic habitat assessment on stretches of the Saugeen River to characterize benthic community health in areas affected by the removal of the Truax Dam.

On-Site Biodiversity Initiatives

Environmental Best Practices

Bruce Power's Environmental Best Practices document aims to support Bruce Power's commitments to reducing the environmental impacts of our operations as stated in our Environment & Sustainability Policy and Biodiversity Policy.

For the purposes of this document, Environmental Best Practices refers to initiatives, considerations, and environmentally sustainable decision-making that has been proven to be effective in minimizing impacts to the natural environment and local biodiversity. Topics and ideas presented in this document may be employed by site staff voluntarily, meaning they are not mandatory at this time.

Examples of topics related to on-site biodiversity initiatives include:

- Post-construction re-seeding with native vegetation
- Avoiding incidental habitat creation (in undesirable areas for wildlife habitat)
- Creating and preserving wildlife habitat, nesting areas, and corridors (in desirable areas for wildlife habitat)
- Bird-strike mitigation using anti-bird strike windows (i.e., decals, non-reflective window surfaces)
- Bird-strike mitigation by reducing on-site building lighting at night
- Reduced grass mowing to allow for re-naturalization

Environmental best practices that have already been successfully carried out on-site are discussed below.

Bird-Strike Decals and Lights Out Program

Birds play an important role in various ecosystems, such as pest control, pollination, and seed dispersal. The protection of birds helps with population conservation and maintaining healthy, biodiverse ecosystems. In Canada, window collisions (bird-strikes) kill up to 42 million birds per year[2] and is one of the main sources of human-caused bird mortality. Bruce Power aims to effectively reduce the number of bird-strikes occurring on-site each year, particularly during the spring and fall migrations.

Bird collisions with buildings are a common phenomenon; however, Bruce Power recognizes that window collision bird-strikes are often preventable, and there are various companies and resources providing services, strategies, technologies, and products to mitigate this issue. Bruce Power initiated two pilot programs in 2022 and 2023 to mitigate bird-strikes for which the benefits were observed in the 2024 spring migration.

Bird-Strike Window Decals

Birds in flight are naturally attracted to the reflection of mirrored windows and can become disoriented, causing them to fly into the building. In 2022, bird-strike window decals were installed on the building identified as having the most significant number of bird-strikes on site (B31 – Bruce Learning Centre) as a pilot program. These window decals display dots in a 2″ x 2″ spacing pattern to ensure the bird can see the window prior to and/or during flight. In 2023, a different type of decal was applied to windows on additional buildings (B11 – Security/Health Physics Lab and B16 – Supply Chain). B31 – Bruce Learning Centre bird strikes were reduced from 13 in 2022 to 5 in 2024. Minimal changes in bird-strike numbers were noticed in 2024 for B11 – Security/Health Physics Lab and B16 – Supply Chain.

‘Lights Out’ Program

Many birds migrate at night and are attracted to lights from buildings, which can cause them to fly into windows.

Turning building lights off at night can help reduce the number of bird-strikes from light-induced disorientation. In the fall of 2023, Bruce Power initiated a program to turn off interior lights in the B10 Support building between the hours of 9 p.m. and 4 a.m. This building experienced a significant bird-strike event during the fall 2024 migration period (one day; similar to an event in 2022), but outside of those events, there were fewer bird strikes at B10 Support building in 2024, as compared to 2022 and 2023 (7 in 2022, 5 in 2023 and 1 in 2024). The 2022 and 2024 bird-strike events occurred just after severe weather (rain and wind) passed through the area.

Tree Planting

Bruce Power continues to support local tree planting projects through our Environment & Sustainability (E&S) Fund. These planting projects help to support important ecosystem services including the enhancement of local biodiversity and habitats, and erosion control.

[2] Government of Canada. (2023). Frequently asked questions on Bird collisions with glass windows. Retrieved from Frequently Asked Questions on Bird Collisions with Glass Windows - Canada.ca.

Bruce Power has partnered with the Saugeen Valley Conservation Authority since 2018 to expand their seedling planting program. In 2024, Bruce Power funded the planting of 2,703 trees, bringing the total number of trees planted via this partnership to over 216,000.

In 2024, Bruce Power's E&S Fund also supported the planting of 150 trees as part of habitat enhancement efforts with Saugeen Habitat Collective, 122 trees with SauGreen as part of their tree sale and community tree planting events, 70 trees with Outdoors Adventures, supporting riparian habitats in the Upper Sydenham River watershed, 272 trees with Hepworth Anglers Club as part of their Spring Creek Restoration initiatives, and 1,074 trees with Pine River Watershed Initiative as part of an agricultural flood mitigation and habitat enhancement project.

Through these partnerships, a total 4,391 trees were planted. In 2025, the Environment & Sustainability Fund continues to support tree planting projects as well as projects that incorporate tree planting as a wider part of habitat restoration and enhancement efforts.

Wildlife Habitat Council Certification

The Wildlife Habitat Council (WHC) Certification is the world's only voluntary sustainability standard designed for broad-based biodiversity enhancement and conservation education on corporate landholdings. The Bruce Power program was Certified Silver from 2022 through 2024. In 2024, Bruce Power prepared a submission to recertify our program, focusing on increasing the number, and quality, of projects submitted for consideration. In early 2025, Bruce Power was informed that the program has been Certified Gold through 2027, reflecting the company's commitment to environmental leadership, conservation, monitoring, and community engagement efforts.

Bruce Power's program focuses on onsite monitoring, conservation, and education and engagement. To demonstrate the breadth of monitoring activities that Bruce Power completes each year, our submission included projects focused on bald eagle, bird-strike, waterfowl and shorebird, vehicle-wildlife collision, snake and snake board, and frog and toad surveys. To demonstrate our commitment to conserving wetlands and water bodies, both on and surrounding our site, our submission included projects focused on Phragmites control and small fish communities in Baie du Doré, water temperature monitoring and redd surveys in Bothwell's Creek, and redd surveys in Stream C. To demonstrate our commitment to education and community engagement, our submission included projects focused on our involvement in the Huron Fringe Birding Festival.

From Bruce Power's submission, three projects have been announced as finalists for the 2025 Tandem Global Project Awards. In the "Other Species" category, Bruce Power's Redd Surveys on Stream C project and Water Temperature Monitoring and Redd Surveys in Bothwell's Creek project are finalists. In the "Invasive Species" category, Bruce Power's Phragmites Control and Small Fish Communities (Baie du Doré) project is a finalist.

Many of these projects, including the Phragmites control efforts, redd surveys, and various monitoring activities, are highlighted in greater detail throughout this report.

Environment & Sustainability Fund Partnerships

The Environment & Sustainability (E&S) Fund is part of Bruce Power's Corporate Social Responsibility Program. Through the E&S Fund we continue to support local environment and sustainability-related projects and initiatives. The Bruce Power E&S Fund seeks opportunities to partner with organizations on initiatives related to:

- Environmental conservation and restoration
- Energy efficiency and carbon emissions reduction
- Climate change mitigation and resilience
- Environmental education, awareness, and research

Some of our partnerships in 2024 included:

Kincardine Coastal Conservation Youth Corps

This program offered by the Municipality of Kincardine aims to provide youth with exposure to what a career in the environmental field could be like along with learning about stewardship of our coastal community. Some of the specific projects that the youth participate in include dune restoration, invasive species removal, shoreline surveys, plant identification, and beach clean-ups.

Pollinate Owen Sound

Funding in 2024 helped to support the creation of pollinator gardens at Owen Sound's four cultural institutions – The Owen Sound and North Grey Union Public Library, The Tom Thomson Art Gallery, the Billy Bishop Museum, and the Marine & Rail Museum, supporting a habitat corridor in the city. Educational programming is offered by Pollinate Owen Sound to increase community awareness on the importance of pollinators and how to garden to enhance their habitats.

Outdoors Adventures Club

The Outdoors Adventures Club's Upper Sydenham River Fish and Wildlife Enhancement project includes several fisheries habitat improvement projects on the Upper Sydenham River, including riparian and in-stream habitat enhancement, riparian tree and shrub planting, spawning site development, and erosion control measures.

Plug'n Drive

Through a five-year funding partnership, Bruce Power continues its commitment in supporting Plug'n Drive, a non-profit organization committed to accelerating electric vehicle adoption to maximize their environmental and economic benefits and the development of Zero Emission Vehicle (ZEV) infrastructure.

Sustainability and Stewardship Events

In 2024, Bruce Power held several environment-focused engagement events for employees and the local community:

- Through our partnership with the Bruce County Museum & Cultural Centre, a virtual Earth Week program was offered for students and the community. The eco-themed program included two video presentations with a focus on how plastics impact local habitats and biodiversity, and what we can do to help.
- In July, a Native Plant Pick-Up event was held for staff, with a focus on edible native plants. This annual native plant campaign supports the protection and enhancement of biodiversity in local communities and promotes environmental stewardship by offering free native plants for employees to incorporate into their yards and gardens.
- In August, Plug'n Drive held an Electric Vehicle (EV) test drive event at Bruce Power Visitors' Centre. The event featured test drive activities for employees and the public, and Plug'n Drive ambassadors were on hand to provide information on EVs and answer any questions.

People and Safety

KPI	Standard guidance is taken from *	2019 Baseline	2024 Target	2024 Actual	2025 Target	UN SDG Alignment
% of Women Relative to the Workforce	GRI 405-1	21.4%	23.2%	22.4%	Not applicable – Indicators Updated for 2025	UN SDG 5 – Gender Equality
% of Racialized People Relative to the Workforce	GRI 405-1	7.8%	11.7%	11.6%	Not applicable – Indicators Updated for 2025	UN SDG 10 – Reduced Inequalities

KPI	Standard guidance is taken from *	2024 Target	2024 Actual	2025 Target	UN SDG Alignment
Severe Injury Rate (SIR)	IF-EU-320a.1, GRI 403-9	0	0.08	0	UN SDG 8 – Decent Work and Economic Growth
Contractor - Severe Injury Rate (C-SIR)	IF-EU-320a.1, GRI 403-9	0	0	0	UN SDG 8 – Decent Work and Economic Growth
Fatality Rate - Employees	IF-EU-320a.1, GRI 403-9	0	0	0	UN SDG 8 – Decent Work and Economic Growth
Fatality Rate - Contractors	IF-EU-320a.1, GRI 403-9	0	0	0	UN SDG 8 – Decent Work and Economic Growth
Emergency Preparedness - Annual # of Drills/Response Exercises	IF-EU-540a.2	≥ 75	71	≥ 45	UN SDG 11 – Sustainable Cities and Communities
Emergency Preparedness - % Emergency Response Organization-qualified Staff Above Minimum Requirements	IF-EU-540a.2	≥ 115%	119.5%	≥ 115%	UN SDG 11 – Sustainable Cities and Communities

* Bruce Power does not claim to conform to any of the standards identified, rather guidance has been taken from those standards identified. Sustainability reporting metrics have been chosen that reflect items material to our business. As noted, we have a larger subset of internal metrics, and as our program matures, we will continue to add to the metrics that we release into the public domain. Bruce Power remains committed to advocating for more standardized disclosure and remains committed to staying up to date on policy and frameworks that are attempting to bring more clarity to information that is crucial for disclosure from a financial, environmental, and social standpoint.

Inclusion Makes Us Stronger

Diversity, Equity, and Inclusion (DEI) are pivotal to our organizational success. To maintain performance excellence, expand production, and support climate change, we must leverage our people and cultivate a culture of excellence so that we may benefit from their synergy. The nuclear industry is crucial in addressing global challenges such as energy shortages and the demand for medical isotopes, with increasing demand for nuclear products and technologies to support climate change initiatives. Implementing a robust DEI program is not just a moral imperative but a strategic business decision that aligns with our Business Plan and Excellence Model.

As the demand for nuclear products grows, our DEI program, focusing on Talent, Culture, and Community, is essential in driving economic and social development, supporting sustainable advancements, and positioning Bruce Power as a leader in the nuclear industry and the community.

Talent

We are dedicated to attracting, developing, and retaining top talent. Our focus is on bridging employment gaps and fully leveraging our people's potential. As an organization, we recognize the importance of strengthening our leadership programming. We remain committed to reviewing our talent programs, including promotions and succession planning, to ensure we create equal opportunities and growth for our employees. Our highlights from 2024 include:

- Executed the Diversity Recruitment Strategy which will ensure sustainability of our future workforce.
- In addition to our HR Sustainability KPIs in the table above which measure all employee types, we also measure our success in attracting talent into our permanent workforce. In that regard, 28.3 per cent of people hired into permanent roles in our organization were Women, 20.1 per cent were Racialized Peoples, 5.7 per cent were Indigenous Peoples, and 5 per cent were People with Disabilities.
- To challenge our unconscious bias, we leverage data from our Employment Equity Report to identify gaps for certified representation, ensuring we challenge ourselves to obtain top qualified talent.
- In 2025, we will be updating our HR Sustainability KPIs to include: per cent of Women and Racialized People relative to the workforce (permanent hires), as well as measuring hiring for Women and Racialized People relative to market availability for those groups.
- The Bruce Power Indigenous Employment Program focuses on attracting, developing, supporting, and retaining Indigenous talent to remove barriers in employment and take meaningful action in reconciliation. In 2024, our Indigenous Employment Program supported 49 Indigenous People being hired into the nuclear sector.
- Formalized interview policy by implementing a requirement to have one diverse representative on internal/external interview panels, considering not only demographics but also diverse work backgrounds from across the business. This policy is now embedded into the recruitment process.
- Inclusive leadership training was provided to leaders at all levels across the site, including Union Team Leads. This training program is assessed and upgraded annually with insights from the DEI program to empower leaders in managing the changing social and economic dynamics of the workforce.
- Bruce Power partnered with post-secondary institutions to develop and retain qualified candidates, supporting our talent pipelines.
- Partnered with trade unions to provide pre-apprentice and apprenticeship programming, including work placements, to expose talent to the nuclear industry.
- Partnered with Build a Dream to inspire and expose young women, grades 7 to 12, to non-traditional roles in STEM, Skilled Trades, Emergency Response, and Leadership in the nuclear industry. This proactive recruitment effort supports our talent pipelines.

- Partnered with Skills Ontario, to inspire and educate students about various career opportunities in skilled trades, aiming to bridge employment gaps and promote careers in the nuclear sector.

Culture

At Bruce Power, we are committed to fostering a positive and inclusive workplace culture where employees feel valued, heard, and empowered. We actively seek and incorporate feedback from our staff to enhance workplace policies, procedures, and practices, ensuring they align with the evolving needs of our workforce. Through engagement surveys, Employee Resource Groups (ERGs), and open communication channels, we continuously strive to create an environment where everyone can thrive.

By leveraging employee insights, we drive meaningful improvements that strengthen our culture of collaboration, safety, and innovation, making Bruce Power a great place to work and grow.

Program highlights from 2024:

- Continuous improvement efforts to ensure safety, accessibility, and inclusiveness in our stations, including change room upgrades.
- Enhanced Personal Protective Equipment by customizing undergarments, improving safety and comfort, particularly for women in Operations.
- Launched a disability awareness campaign aimed at combating workplace stigma and fostering an inclusive environment.
- Paid time off for Indigenous Peoples Day: Our organization recognizes the significance of Indigenous Peoples Day on June 21st. To honor this important date, we are offering paid time off to ensure employees can preserve traditions and culture related to this day.
- We celebrated Black History Month with a keynote speaker who focused on resilience and women leadership. This event highlighted the strength and perseverance of Black women leaders, inspiring all attendees with their stories of overcoming adversity and leading with courage. This celebration honored the rich history and enduring legacy of Black leaders.
- Employee Spotlight initiative was implemented to acknowledge workers significant contributions, fostering an inclusive culture of appreciation, boosting morale, and motivating employees to continue delivering their best work.
- Developed DEI resources to support staff and leaders in fostering a respectful and inclusive culture. Topics include Orange Shirt / National Truth & Reconciliation Day, Workplace Civility, Inclusive Language, Neurodiversity, and Being an Active Ally. These resources equip leaders to model inclusive behaviors, enhance understanding and empathy among staff, and promote a culture of excellence.
- To celebrate International Women's Day, our organization recognized 25 peer-nominated women and allies for their outstanding contributions. They were honored with a lunch with our CEO and awarded for fostering a culture of excellence.

- Conducted a workshop on inclusive language for Governance Document Leads to tackle systemic barriers in corporate documents. This initiative ensures content is relatable to all employees, fosters respect and value, and shapes a culture of excellence.
- Our organization offered access to a comprehensive leadership and professional development upskilling library of courses through LinkedIn Learning to all ERG members. This initiative included contract and skilled trade members who contribute significantly to our business. These resources aim to empower all ERG members with the tools to be proficient and advance in their careers.
- For LGBT History Month, we brought in a keynote Equity Educator to discuss “Why 2SLGBTQAI+ Matters in the Workplace.” The event emphasized the significance of creating an inclusive and supportive environment for 2SLGBTQAI+ individuals. The keynote covered the benefits of diversity, shared impactful personal stories, and provided actionable strategies for fostering a welcoming workplace, promoting a culture of acceptance and equality.
- Enhanced our DEI resource library to be accessible to all workers on-site, including contract and skilled trade union members. This comprehensive library is designed to support everyone's inclusion journey by providing valuable resources and tools across various learning platforms.
- To improve accessibility to our safety communications, we have enabled closed captioning for monthly safety videos. This initiative ensured that employees working in various conditions, including noisy or visually demanding environments, can effectively receive and understand critical safety information. Making our communications site-wide more flexible, enhancing overall employee safety, and improving their experience and engagement with our safety protocols.

Employee Resource Groups

At Bruce Power, we proudly leverage the support and guidance of our Employee Resource Groups (ERGs). These groups, made up of dedicated volunteer workers, advocate for specific demographics and work to identify and remove barriers in employment. By supporting vibrant communities within our workplace, our ERGs act as invaluable resources for both their members and the organization. Additionally, our ERGs provide opportunities for personal and professional growth, networking, and serving as ambassadors in our community.

We proudly support four ERGs:

- Gender Sexuality Alliance (2SLGBTQAI+ community)
- Indigenous Network
- Mosaic (Racialized People)
- Women’s Forum

Together, these groups help to drive our DEI strategy, overcome challenges, and advocate for an inclusive and respectful work environment. Our collective achievements reflect our commitment to fostering a culture of excellence.

Highlights of ERG Initiatives in 2024:

- Supported efforts by Bruce County and Bruce Power to improve access to local childcare by participating in focus groups and surveys to understand the workforce's childcare needs and promoting Bruce Power's Early Childhood Education Scholarships. Additionally, our Women's Forum provides resources to licensed and non-licensed childcare providers, referenced by their membership, to support work-life balance for women.
- Contributed to the planning and execution of our International Women's Day celebration. Our ERG members provided support to plan, promote, and participate in the festivities, providing guidance and insights on the well-being of women in the workplace, nominations for employee spotlights, and the distribution of cookies in celebration of the day.
- The Indigenous Network is dedicated to raising awareness about important cultural and historical events, including Orange Shirt Day and Red Dress Day. Orange Shirt Day honors the survivors of residential schools and acknowledges the lasting impact these institutions have had on Indigenous Nations and Communities. Red Dress Day brings attention to the crisis of missing and murdered Indigenous women and girls, highlighting the need for justice and systemic change, fostering understanding, support, and solidarity with Indigenous Nations and Communities.
- Our Women's Forum offered technical tours and educational sessions on organizational projects and initiatives, fostering awareness and support for business goals. This empowered members to contribute effectively, promoting collaboration, and aligning the workforce with our strategic business plan.
- The Indigenous Network donated books by Indigenous authors to local schools and libraries in Bruce and Grey Counties for the National Day for Truth and Reconciliation, enhancing education on Canadian residential schools and supporting cultural and historical studies.
- For Indigenous People's Day, the Indigenous Network hosted an on-site Powwow, allowing staff to engage with Indigenous culture through local artists, vendors, and community members.
- Supported 2SLGBTQAI+ inclusion initiatives by participating in Pride parades, in Kincardine and Owen Sound, Ontario, and the Pride event at the Huron County Festival.
- Volunteered to support recruitment efforts in a local career fair that support our nuclear pipelines in Skilled Trades, Emergency Services, science, technology, engineering, and mathematics (STEM), and leadership. Members of these forums participated in discussion panels, engaged students at exhibitor booths, and shared their career journeys motivating students with insights into careers at Bruce Power.

- Our ERGs support community partnerships by participating in events like Habitat for Humanity projects, Kincardine Multicultural Day, and the Emancipation Festival. Their involvement strengthens our social responsibility, promotes diversity and inclusion, and demonstrates our commitment to making a positive impact.
- The Indigenous Network actively supports and engages with local Indigenous Nations and Communities by participating in markets, Powwows, and Fish Frys. They also organize clothing and toy drives, fostering mutual respect, understanding, and solidarity.
- The Women's Forum, in collaboration with the Recruitment team, hosted resume and interview workshops at various times to accommodate different schedules, helping members enhance their professional profiles and career prospects.

Community

We are committed to supporting an inclusive culture in partnership with our communities and with our suppliers and trade unions. We recognize our role in being a leader to support this transformation and will utilize our relationships to drive programming and initiatives to support social and economic developments that promote inclusion.

- Our Indigenous Employment Program includes local outreach activities for Indigenous talent by helping to navigate our application process and providing guidance on resume development. We continue to focus on growing Indigenous talent pools supporting our suppliers, contractors, and trades unions. This program supports our collective journey towards truth and reconciliation (TRC #92 which calls upon employers to ‘Ensure that [Indigenous] peoples have equitable access to jobs, training, and education opportunities in the corporate sector’).
- To support working parents and help address gaps in childcare services in Bruce County, Bruce Power provided scholarships to 23 to students enrolled in Early Childhood Education studies. This initiative aims to grow qualified childcare workers in Bruce County.
- Partnered with Build a Dream to conduct a comprehensive environmental scan and needs analysis to understand the barriers to access local childcare. We recognize the critical role that childcare plays in supporting our workforce and community. By understanding the current landscape and identifying gaps in local childcare services, we aim to develop targeted strategies that will enhance accessibility and affordability for families. This partnership allows us to leverage expertise and resources, ensuring that our efforts are informed by research and address community needs.
- Collaborated with the Millwright Regional Council to successfully launch the Intro to Millwrighting Program, which supported seven local diverse students in bridging employment gaps in the skilled trades. This initiative provided comprehensive training, practical experience, and mentorship, equipping participants with the skills needed to pursue fulfilling careers in the energy sector.

- Developed an Indigenous procurement strategy aligned with Bruce Power's long-term business goals as part of our commitment to Truth and Reconciliation. This strategy is crucial in fostering strong partnerships with Indigenous Nations and Communities, promoting economic opportunities, and ensuring that our business practices reflect our dedication to reconciliation and inclusivity.
- Supported Nuclear Against Racism, a nuclear sector committee that provides educational resources and programming to eradicate racism in the nuclear industry. Last year, the Committee hosted a webinar with Solange Tuyishime, CEO of Elevate International, to share their journey to success. This event was attended by over 216 participants in the nuclear sector.
- Partnered with Easter Seals on a mentorship program designed to support the completion of post-secondary studies and provide career guidance. This collaboration empowers Easter Seal members by offering them the resources and mentorship needed to succeed in the economy. Together, we were committed to helping students achieve their educational and career goals, ensuring they have the tools and guidance necessary to thrive in their chosen fields.
- Continually refresh our sponsorship funds to support the communities and networks we serve, ensuring we support local inclusion programming such as Women in Nuclear (WiN) Canada, women's shelters, local community living resources supporting people with disabilities, Grey County Black Heritage Society, Multicultural Festival, Kincardine Afro-Caribbean Awards, Community Pride events, Habitat for Humanity, and the Hindu Culture Open House.
- Partnered with WiN, a non-profit resource group for individuals in the nuclear industry, to provide updates in the nuclear sector, drive programming and initiatives to support the industry, and support networking and leadership development opportunities. In 2024, 79 individuals from various levels in management and broadness from across the organization attended the annual WiN Canada conference in Niagara Falls, Ontario.
- Enhanced our community engagement, increasing our presence in the communities to support local inclusivity programming. This included participating in events such as the Kincardine Multicultural Day, Huron, Kincardine, and Owen Sound Pride parades, and the Kincardine Afro-Caribbean Awards banquet. Additionally, this year we offered transportation to local Indigenous fish-fry and Powwow events.
- Supported suppliers and trade vendors on their inclusion journey through sharing best practice, resources, and lessons learned and encouraging community engagement with the local Indigenous Nations and Communities.
- Presented our DEI Strategy at the First Diversity and Belongingness Conference in Owen Sound, Ontario, emphasizing the importance of embedding DEI principles into organizational practices to foster an inclusive workplace culture and inspire other organizations.

- Participated in Bruce County Welcoming Week activities, an annual campaign to celebrate inclusivity and belonging, fostering connections and supporting relationships with newcomers by providing information on settlement, employment, and community support services.

For 2025, Bruce Power and our programs earned recognition through several awards:

Bruce Power participates in the following commitments that support our journey:

Ethics

Bruce Power has a separate and independent Ethics & Code of Conduct Office that is dedicated to maintaining an ethical workplace culture through education, advice, and workplace investigations. The Code of Conduct, Supplier Code of Conduct (“the Codes of Conduct”), and our Code of Conduct Principles set the expectations for acceptable behaviour both at Bruce Power and while performing work for or on behalf of Bruce Power at other locations. The Codes of Conduct help to maintain the ethical workplace culture that we have worked hard to establish. At Bruce Power, ethical values like integrity, respect, honesty, and transparency matter, and they are reflected in the daily actions of our workers and our company policies and procedures. These documents are reviewed and updated on a regular basis to ensure that they are aligned with best practices.

As stated in the Joint Pledge with our supplier and union partners, Bruce Power pledges and demonstrates to our teams, colleagues, and to the nuclear industry, our commitment to creating and maintaining a respectful, discrimination-, harassment-, and violence-free workplace. Workers are expected to act with integrity and treat each other with respect, and deal with colleagues, customers, suppliers, partners, owners, shareholders, and the community ethically and responsibly. We expect all individuals to behave in a manner that meets or exceeds Bruce Power’s values, which we adhere to through our Codes of Conduct standards.

We always strive for excellence and do our jobs to the best of our ability to ensure the interests of Bruce Power, our local communities, our colleagues, and the environment are safeguarded. We perform our duties in accordance with all applicable laws, regulations, and other legal and business requirements, as well as observing company policies, procedures, and rules.

Bruce Power ensures that all workers accessing site are properly trained by requiring the completion of Ethics & Code of Conduct Training, and other ad hoc training including bystander intervention training and providing education and support on how to report concerns. Bruce Power provides a variety of avenues for individuals, both internal and external to Bruce Power, to report ethical concerns. These reporting methods include internal contacts within the Bruce Power Ethics & Code of Conduct Office and an externally managed hotline and website which includes the ability for individuals to make anonymous reports. For more information, please see Bruce Power's Code of Conduct Principles.

Political Donations, Government Lobbying, and Political Activity

Lobbying-related activities are managed by the Corporate Affairs Division for federal, provincial, and municipal governments, and the required reporting of these activities is overseen by the Bruce Power Ethics & Code of Conduct Office. These activities, and those registered as Lobbyists on behalf of Bruce Power, are also reported annually to the Bruce Power Code of Conduct Oversight Committee.

Workers may participate in the political process as an individual, in accordance with their own political views and the laws and regulations governing this activity. In doing so, however, workers may not use Bruce Power's name, nor indicate that they represent Bruce Power, unless they have been authorized to do so. Worker political activities must be conducted on their own time, using their own resources, and kept separate from their work and they must not impose any political or personal views or beliefs on others.

Anti-Corruption

Bruce Power promotes integrity and ethics in all aspects of our business activities. We comply with all applicable laws and regulations on corruption, bribery, prohibited business practices, and extortion. Bruce Power prohibits the offering or acceptance of bribes or kickbacks of any kind, whether in dealings with public officials or individuals in the private sector. A bribe is generally defined as a gift or promise of undue reward or payment, financial or otherwise, to influence the behaviour of government officials or business for the purpose of gaining a commercial advantage. A kickback is similar to a bribe, but usually occurs after the fact. We respect our relationship with government employees. As a representative of the company, workers are expected to be aware of and comply with relevant laws and regulations that govern relationships between government, customers, and suppliers.

In terms of mitigating against corruption, together with Finance, the Bruce Power Ethics & Code of Conduct Office regularly conducts fraud risk scenario reviews to review or establish controls to mitigate against the risk of fraud occurring in the business. In addition, past actions have included a fraud risk assessment completed as part of a commercial internal audit, along with a survey of workers. As noted above, all interactions with government officials are required to be tracked and communicated to the Ethics & Code of Conduct Office, who regularly reports these activities to both the federal and provincial governments in transparency, in accordance with the legal requirements to do so.

Openness

At Bruce Power, we are dedicated to connecting with the community in an open, transparent, and meaningful way. We are committed to conducting business ethically, respectfully, safely, and with professionalism at all times. Our company values guide Bruce Power's communications while respecting the bounds of commercial confidentiality and disclosure obligations of its listed partners. Bruce Power strives to maintain a positive working relationship with those who have an interest in our business. We are committed to open communication with community members, Indigenous Nations and Communities, and other interested parties, including local residents, government representatives, charities, service clubs, and schools and students.

Occupational Health and Safety

In 2022, Bruce Power endorsed an initiative to redefine safety as the presence of controls rather than the absence of hazards. This journey included the adoption of a method to consistently classify safety events based on risk; introduce of the Energy Wheel, a tool used to improve hazard identification; integrate energy-based safety principles into work planning to identify hazards; prioritize the Stuff That Kills You (STKY); and implement targeted direct controls. These are all fundamental steps in preventing and eliminating serious injuries and fatalities (SIF) in the workplace.

In 2024, Bruce Power became a member of the Edison Electric Institute's (EEI), Power to Prevent SIF industry working group. EEI members have prioritized SIF elimination and, through collaboration across the electric industry, are implementing a series of actions to achieve this goal.

Bruce Power is also leading worldwide working groups within the nuclear sector to better align safety metric reporting with exposure to energy sources rather than being based on the type of treatment received (e.g., medically treated injury or lost time injury). These metrics continue to be used at Bruce Power as an indicator to Safety Excellence. With our new effort to placing more emphasis on the risks faced by employees rather than treatment received, we saw an increase in Bruce Power Severe Injury Rate (SIR) from 0.0 to 0.08. This increase is a result of three serious injuries that occurred at Bruce Power in 2024.

Bruce Power's commitment to continually improve our safety culture is unwavering and is anchored by strategic learning from potentially serious events to build capacity into our systems. This is done through our Operating Experience (OPEX) process that looks at events on-site and in the industry in general. By proactively working together, we ensure that health and safety is the paramount consideration that guides all of our decisions and actions. We look forward to learning from past experiences and consistently achieving the highest safety standards.

For more information, view Bruce Power's Occupational Health and Safety Policy.

Emergency Preparedness

Bruce Power is prepared for all types of possible emergency events, including the highly unlikely event of a nuclear emergency. This is known as an 'All Hazards' approach to emergency planning. While emergency preparedness is part of Bruce Power's Operating License for its generating facilities, Bruce Power recognizes the importance of maintaining a robust and multi-faceted Emergency Response Program as part of its number one value of Safety First as well as Social Responsibility.

Bruce Power's Emergency Response Program includes complement staff on site (who are on site 24 hours a day, seven days a week), on-call (available 24/7 and can be operational within 90 minutes), and call-in staff who are available to support both the site and the province and municipality during an emergency.

The effectiveness of Bruce Power's Emergency Response Program is continuously evaluated through a series of drills and exercises. Every year, the company's Emergency Response Organization undertakes over 50 drills and at least one major exercise. The Canadian Nuclear Safety Commission (CNSC) will perform an evaluation of at least one drill and/or exercise during the year. In addition, the CNSC carries out routine inspections to ensure that the Emergency Management Program meets all regulatory requirements (REGDOC-2.10.1). The CNSC has consistently rated Bruce Power's emergency response capabilities as fully satisfactory.

Since 2012, every three years Bruce Power organizes and runs a large-scale nuclear emergency exercise (called the Huron series), which includes internal and external interested parties' participation (e.g., federal, provincial, and municipal agencies) to test an integrated response to the individual organization's respective nuclear emergency response plans. These include the CNSC's Federal Nuclear Emergency Response Plan (FNERP) and the province's Provincial Nuclear Emergency Response Plan (PNERP). The next large-scale nuclear exercise is entitled 'Huron Unity' and is scheduled for November 2025. A dedicated team has been established and the planning and preparation for this major exercise began in November 2024.

Notable exercises successfully delivered in 2024 included a full-day Business Continuity exercise on June 13th. This included all Business Continuity leads being notified to attend an alternate Emergency Management Centre (EMC) location in Chesley to work through a scenario based on a forest fire threat to the Bruce Power site. On November 19th, a validation drill was performed for single dispatch change effectiveness. This drill was fully evaluated by the CNSC.

Bruce Power has established succession planning for on call Emergency Response Organization (ERO) that allows rotations of the Emergency Management Centre (EMC) positions to exist as a development opportunity for high performers within Bruce Power. In 2024, there were 27 new on-call ERO members trained and qualified.

Cyber and Information Security

Bruce Power has implemented a comprehensive Cyber and Information Security Program designed to effectively manage cyber and information security risks across the entire organization. This program ensures robust protection, detection, and response capabilities, aligning with industry standards and regulatory requirements, including the CSA N290.7 Cybersecurity for Nuclear Facilities standard. With extensive oversight both internally and externally, the program drives cyber risk management across the enterprise and enhances the security and reliability of Bruce Power's digital assets.

Bruce Power collaborates with global organizations such as the International Atomic Energy Agency (IAEA), the World Institute for Nuclear Security (WINS), Conexus (formerly CANDU Owners Group [COG]), and international nuclear operators to ensure its cyber security measures are in line with international best practices. This approach ensures the safety and reliability of our operations, showcasing Bruce Power's unwavering commitment to excellence in cyber security and protecting its infrastructure from potential threats.

Grid Resiliency

Nuclear energy provides a non-carbon emitting energy alternative to fossil fuel electricity generation while also providing broad impacts to the stability of the connected grid. At Bruce Power, we define grid resiliency as our ability to withstand and reduce the impact of disruptive external threats through planning and preparation, enabling the capability to anticipate, absorb and respond, rapidly recover, and adapt from such an event. We take guidance from INPO 24-003 and focus on four threat categories – natural, physical, cyber, and indirect threats. We are committed to maintaining continuity of operations – maintaining power operations and all required support activities within the bounds of safety and design – by addressing the physical and organizational defenses against external threats.

To address the potential increases in frequency, intensity, and duration of natural, cyber, and physical threats to critical infrastructure, as well as the introduction of new and indirect threats, we take a forward-looking perspective and proactive approach focused on increased research and investment, to improve the resiliency of critical infrastructure. These efforts focus on ensuring there are multiple ways for power delivery, protecting infrastructure from any possible threats, and that strong infrastructure is built and maintained to ensure that Ontario has a reliable and continuous power supply. Specific work, such as our Climate Vulnerability Assessment, severe weather response team, and emergency management and preparedness, are outlined throughout this report and provide examples of the measures we are taking.

Products and Services

KPI	Standard guidance is taken from *	2024 Target	2024 Actual	2025 Target	UN SDG Alignment
% Services and Materials Spent in Ontario	GRI 203-2, GRI 204-1	≥ 88%	83.7%	≥ 88%	UN SDG 8 – Decent Work and Economic Growth UN SDG 9 – Industry, Innovation and Infrastructure
% Services and Materials Spent in Canada	GRI 203-2, GRI 204-1	≥ 90%	88.9%	≥ 90%	UN SDG 8 – Decent Work and Economic Growth UN SDG 9 – Industry, Innovation and Infrastructure

* Bruce Power does not claim to conform to any of the standards identified, rather guidance has been taken from those standards identified. Sustainability reporting metrics have been chosen that reflect items material to our business. As noted, we have a larger subset of internal metrics, and as our program matures, we will continue to add to the metrics that we release into the public domain. Bruce Power remains committed to advocating for more standardized disclosure and remains committed to staying up to date on policy and frameworks that are attempting to bring more clarity to information that is crucial for disclosure from a financial, environmental, and social standpoint.

Canadian at Our Core

Bruce Power is proud of the role it plays in providing reliable made-in-Canada electricity and cancer-fighting medical isotopes with a domestic supply chain that has an economic impact felt across the Clean Energy Frontier region of Bruce, Grey, and Huron Counties, Ontario, and Canada. The company launched the Canadian at our Core campaign in 2025, committing to continue to promote the made-in-Ontario and Canada nuclear industry and urging its partners and suppliers to buy local and buy Canadian. Closer to home in the Clean Energy Frontier Region of Bruce, Grey and Huron Counties, Bruce Power is encouraging suppliers, employees, and the community to shop local to support the economy.

Indigenous Procurement Policy

Bruce Power is proud to be recognized as a Procurement Champion and awarded Partnership Accreditation in Indigenous Relations (PAIR) Gold certification through the Canadian Council for Indigenous Businesses (CCIB). We are committed to working with local Indigenous Nations and Communities and local Indigenous-owned businesses to identify areas of interest, capability and to address barriers to procurement and contracting. Bruce Power's Indigenous Procurement Policy supports meaningful, measurable contracting and procurement opportunities for local Indigenous-owned companies as well as greater opportunities for regional and national Indigenous-owned companies.

For example, Request for Proposal (RFP) scoring criteria works to make Indigenous-owned businesses more competitive and scoring guidelines give points to businesses that are Indigenous-owned. In conjunction with this approach, Bruce Power supports the development of relationships and business opportunities with Indigenous-owned businesses and the supplier community. The end goal, beyond business development, is to find creative ways increase the number of Indigenous-owned businesses supporting Bruce Power as part of our supplier base, as partners, sub-contractors, or related avenues.

Saugeen Ojibway Nation Community Development Fund

In 2024, Bruce Power initiated a new program called the Saugeen Ojibway Nation (SON) Community Development Fund (CDF). The program encourages Bruce Power's top Suppliers to provide a contribution to an annual funding stream that is provided directly to the SON Communities of Saugeen and Nawash to support investment in critical community development projects. The first investment is targeted to be distributed to Saugeen and Nawash in Q3 2025. In addition to financial contributions to the fund, suppliers are encouraged to offer in-kind contributions or volunteer for community initiatives to help promote relationship building and future partnerships

Economic Development

In 2016, Bruce Power and the County of Bruce established a regional 'Nuclear Economic Development and Innovation Initiative' to ensure local communities share in the economic benefits generated by Bruce Power's multi-year Life Extension program. In 2020, this initiative evolved into the Clean Energy Frontier Program funded by Bruce Power and Bruce County through the Nuclear Innovation Institute (NII). Bruce, Grey, and Huron Counties have formally endorsed the program, and a multi-stakeholder Advisory Committee has been established to bring together leaders and organizations from across the region to support investment opportunities and build on existing strengths towards a robust, net-zero economy.

The Clean Energy Frontier Program aims to advance economic development and innovation in the region and to build on the momentum underway by assisting clean energy companies with locating to the area.

The number of major suppliers in Bruce, Grey, and Huron Counties has grown from 13 in 2016, to more than 60 in 2024, and the Clean Energy Frontier is now one of the more successful non-urban regions in Canada as measured by the size of its economy, average income levels, and growth rates. Bruce Power's annual operational spending boosts provincial Gross Domestic Product (GDP) by an estimated $3.5 billion, and adding in induced economic effects, the company contributes over $4 billion annually to provincial GDP. We will continue to target 90 per cent of money spent is in Canada, including the operation of our facility, capital investments and procurement.

The nuclear energy sector, and Bruce Power specifically, is a major contributor to the success of the regional economy and there are many large-scale initiatives underway and being considered for the region that will provide a solid economic foundation for the future while helping Ontario and Canada address its climate change objectives.

Bruce Power works in close partnership with the Nuclear Innovation Institute (NII) through its Clean Energy Frontier Program to promote economic and community development in the region, and to ensure that the community benefits from Bruce Power's operations.

In 2024, the first Clean Energy Frontier Conference was held bringing together industry leaders, local experts and community partners for two days of insightful presentations and networking. Hosted by the Nuclear Innovation Institute (NII) and sponsored by Bruce Power, the conference served as a key platform for exploring energy-related initiatives in the Clean Energy Frontier region.

The conference explored critical topics such as nuclear medicine opportunities, the intersection of clean energy and agriculture, and local climate change action, highlighting the contributions of the region in the drive toward decarbonization and a healthier future.

In collaboration with Bruce Power, Clean Energy Frontier staff at NII actively support:

- Promoting the region as a leader in clean energy through marketing and engagement initiatives.
- Supporting economic development and investment attraction across the tri-county region.
- Increasing awareness of clean energy initiatives amongst elected officials and the public.

Isotopes and Business Development

Bruce Power does more than supply 30 per cent of the electricity used by Ontario’s families and businesses.

Medical isotopes supplied by Bruce Power are vital resources to the medical community, and the company continues to seek ways to expand the types of isotopes it produces. The sterilization of single-use medical devices using cobalt-60 is one of the key factors that makes the modern health system possible. These items touch on all aspects of health care. Early in 2022, a first of its kind Isotope Production System (IPS) was installed with the ability to produce lutetium-177. The system was later expanded, in the spring of 2024, with the installation of an additional production line. This innovative system is targeted for further expansion as it offers unprecedented capacity for radioisotopes and supports Ontario in establishing itself as a global hub for medical isotopes. Looking ahead, Bruce Power is looking to grow its Isotope Program, expanding the isotope portfolio and adding more Isotope Production Systems (IPS) on more reactors.

By joining forces with the health-care sector and research facilities, nuclear energy producers, like Bruce Power, can continue delivering life-saving medical isotopes to hospitals around the world - improving the quality of life of millions of people in the process.

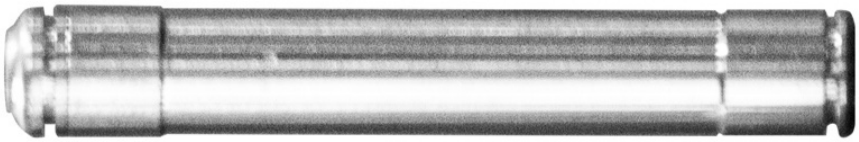

Figure 7
A Target Containing ytterbium-176 is Sent into Bruce Power's IPS and Irradiated in the Reactor Core to Become Ytterbium-177 Which then Decays to Lutetium-177, a Cancer-fighting Medical Isotope.

Cobalt-60 and Lutetium-177

Four of Bruce Power's reactors produce cobalt-60, an isotope which sterilizes single-use medical devices and treats complex forms of cancer, including brain tumors, through non-invasive procedures.

In October 2023, while completing a harvest of cobalt-60 during a planned outage in Unit 8, Bruce Power implemented system innovations in the first of the four reactors that are being targeted for increased production of cobalt-60 in subsequent harvests, to meet the growing demands of the world market.

Lutetium-177, also produced in Bruce Power's nuclear reactors, is used in targeted radionuclide therapy to treat neuroendocrine tumors and prostate cancer. This innovative targeted therapy destroys cancer cells while minimally affecting healthy cells.

How is Lutetium-177 produced?

Lutetium-177 is produced by irradiating ytterbium-176. The process involves placing ytterbium-176 source material in special sealed containers that are then conveyed into one of Bruce Power's reactors using the proprietary Isotope Production System (IPS). The IPS was designed and manufactured in Ontario by Bruce Power's partner IsoGen (a company of Kinectrics, Inc. and Framatome, Canada). The resulting lutetium-177 is then sent for further processing into pharmaceutical grade lutetium-177 for subsequent distribution to health-care facilities worldwide.

As cancer treatments using lutetium-177 become more commonplace, Bruce Power and its partners are working on further enhancements to the IPS to ensure reliable production capacity to meet the growing demand for this powerful cancer-fighting isotope, which is being successfully used in various clinical and commercial radio-pharmaceutical cancer treatments.

Why does Bruce Power want to produce isotopes?

Many research reactors are closing or have reached their end of life. With Bruce Power's Life Extension program through to 2064, it provides a long-term, reliable supply of medical isotopes, leveraging the existing infrastructure at the Bruce Power site which also has an around-the-clock operational advantage. The IPS is a versatile system that can be installed on other Bruce Power units and has the potential to produce other medical isotopes. This flexibility allows Bruce Power to scale up to support the medical community as it innovates in the future.

Bruce Power and IsoGen issued an Expression of Interest (EOI) in March of 2022 to solicit information and market opportunities from companies interested in producing medical isotopes at Bruce Power. The EOI was intended to be a first step in securing long-term isotope supply agreements and proved helpful to both Bruce Power and Isogen in understanding isotope demand and gathering information that could be used in planning future IPS functionality and investments in opportunities.

The Saugeen Ojibway Nation (SON) is also a partner with Bruce Power on the IPS initiative, and together they have created "Gamzook'aamin aakoziwin" which translates to "We are teaming up on the sickness."

SON and Bruce Power have been collaborating on this initiative since 2019, including jointly marketing new isotopes in support of the global fight against cancer, while also working together to create new economic opportunities within the SON territory.

In December 2023, Bruce Power and SON celebrated the first full year of commercial operation of the IPS, resulting in full equity benefit of the partnership to SON communities. Bruce Power and SON also began discussions in 2023 on expansion opportunities for continued growth of the Gamzook'aamin aakoziwin partnership which extended their partnership to capture the additional lutetium-177 production line that was installed in 2024.

Learn more in Bruce Power's Isotope Publication and this video.

Working with our Suppliers

At Bruce Power, we take great pride in the relationships and collaborative partnerships we have with our suppliers, who are an integral part of our business. We work very closely to make sure they understand and are aligned with our core values. These values include responsible sourcing: respecting human rights, such as, anti-modern slavery, anti-harassment and anti-discrimination, and sourcing local content. Local sourcing is a key focus that is incorporated into all of our agreements with new suppliers. More than 60 suppliers have established offices in Bruce, Grey, and Huron Counties (more details can be found on the Economic Development and Innovation Initiative, and the Working with Bruce Power sections of our website).

Based on the scoring of the supply chain proposal evaluation process, suppliers with a local presence, score higher than those with a provincial, and then national presence. The scoring process also considers companies which have documented local Indigenous components of their business, which would then score higher than at the provincial and national levels.

Bruce Power has implemented an enhanced monthly supplier scorecard process for its key and critical suppliers. This evaluation includes social elements that aligns with Bruce Power's core values such as, localization, Indigenous partnerships and engagement, net zero commitments, and Diversity, Equity and Inclusion (DEI).

Supplier Engagement

At the Request for Proposal (RFP) evaluation phase, Supply Chain will take into consideration a variety of sustainability factors, which are weighted according to the nature of the procurement at issue. Bruce Power expects its suppliers to support and respect human rights, Indigenous Relations, and DEI and to provide equal opportunity within the workplace. Suppliers shall ensure all labour practices, wage payments, and benefits comply with applicable laws and regulations. Additionally, suppliers enter binding contracts with Bruce Power that require suppliers to conduct business in accordance with the principles of human rights and diversity, and ensure no forced and child labour is condoned, facilitated, or used in their workplaces. Suppliers are required to flow through their contractual obligations with Bruce Power to their sub-suppliers.

Suppliers are required to register in ISNetworld and maintain the requested information; in limited circumstances a supplier may be exempt from ISNetworld registration upon review and approval by a Supply Chain Director. ISNetworld includes safety-related metrics and grading and an environmental questionnaire (e.g., relating to ISO 14001 certification, waste management plans, spill management plans) which contributes to the supplier's overall rating in ISNetworld. Every one of Bruce Power's selected suppliers is required to complete the Bruce Power Supplier Code of Conduct training once they have signed an agreement.

Uranium Fuel Sourcing

Bruce Power's current uranium contract restricts origins to Canada, Australia, United States, and Kazakhstan based on the known environmental, social, and regulatory standards in those countries. Bruce Power will only consider accepting material from other jurisdictions subject to confirming the environmental, social, and regulatory standards in such jurisdictions meet the "do no significant harm" principle.

In 2023, Cameco and Bruce Power celebrated the extension of their long-term exclusive nuclear fuel supply arrangements through to 2040. This partnership secures decades of Canadian-made nuclear energy that is essential in supporting net zero targets, creating good jobs, and benefitting ratepayers. You can learn more about Cameco's Sustainability and ESG program by visiting the Sustainability section on Cameco's website.

Community

KPI	Standard guidance is taken from *	2024 Target	2024 Actual	2025 Target	UN SDG Alignment
Total Value of Sponsorships & Donations	See Methodology	≥ $2,500,000	$ 3,808,000	≥ $2,500,000	UN SDG 3 – Good Health and Well-being

* Bruce Power does not claim to conform to any of the standards identified, rather guidance has been taken from those standards identified. Sustainability reporting metrics have been chosen that reflect items material to our business. As noted, we have a larger subset of internal metrics, and as our program matures, we will continue to add to the metrics that we release into the public domain. Bruce Power remains committed to advocating for more standardized disclosure and remains committed to staying up to date on policy and frameworks that are attempting to bring more clarity to information that is crucial for disclosure from a financial, environmental, and social standpoint.

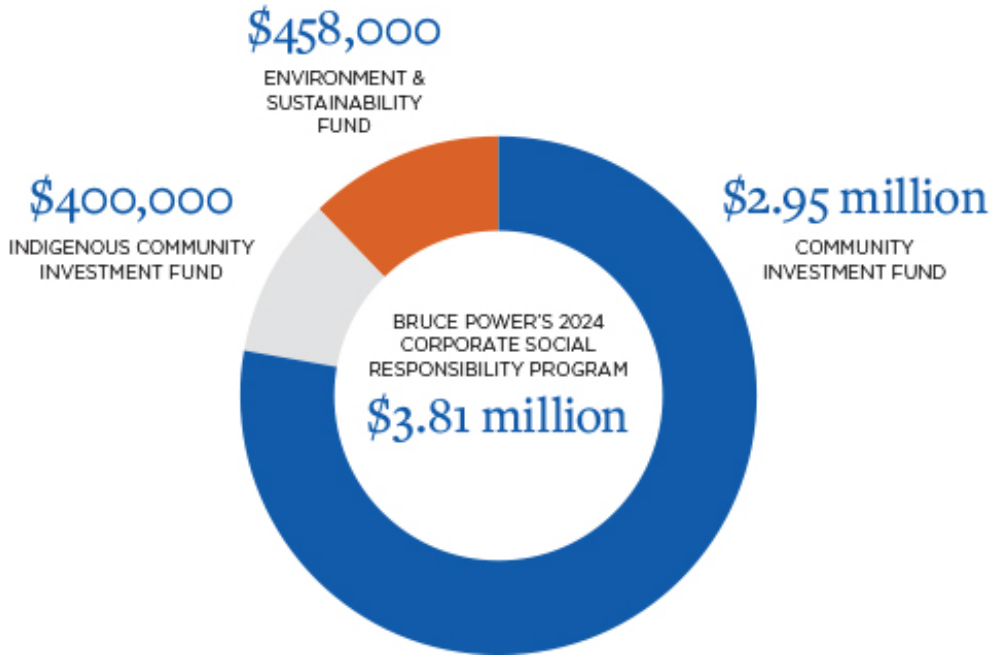

Figure 8
Bruce Power's 2024 Corporate Social Responsibility Program

At Bruce Power, we are proud to deliver clean, reliable, low-cost nuclear power to families and businesses across Ontario and cancer-fighting medical isotopes across the globe. Many of our employees have lived in Bruce, Grey, and Huron Counties for decades, and we are proud to have been an active member of the business community since 2001.

We have the privilege to contribute to the community, and we encourage our partners to do the same. Bruce Power's Corporate Social Responsibility Program has a base $2.06 million annual budget that supports initiatives that focus on health and wellness, youth development, minimizing environmental impacts, community events, housing, and Indigenous youth development and cultural, recreational, and educational programming.

In 2024, due to a combination of heightened needs in the community and the company outperforming its business plan, Bruce Power was able to address over $1.6 million in additional requests for support in the community and close off some of our long-term commitments to allow us to accommodate additional needs in future years. This may not always be possible; however, it was greatly appreciated by a number of charitable organizations seeing increased need in our communities and municipalities looking to fund attainable housing programs.

Some initiatives that Bruce Power was proud to support in 2024 include:

- **Local housing initiatives:** Bruce Power made a $1 million commitment to the County of Huron for an attainable housing project that it is building in Goderich, about 70 km south of the Bruce Power site, while we also donated $150,000 to each of Bruce County and Habitat for Humanity for on-going projects in the region.
- **Saugeen Shores Aquatic Centre:** Bruce Power donated $400,000 to the Saugeen Shores Aquatic Centre, which will see a new community pool built at The Plex, in Port Elgin, Ontario.
- **Holiday giving:** Over $330,000 from Bruce Power and our Supplier Partners was distributed to local community organizations around the holiday season, contributing to toy and hamper drives, grocery store gift cards distributed to families through schools, $2,000 to each of 38 local food banks, women's and homeless shelters, soup kitchens, warm winter clothing for children, and toy and clothing drives for local Indigenous Nations and Communities.

Interested Parties

Our identification of interested parties is guided through our ISO 14001 system and is defined as someone who has an interest in the performance of the business and can influence objectives. Bruce Power's interested parties include, but are not limited to, workers, pensioners, residents of communities surrounding the Bruce Power site, Indigenous Peoples, local and regional governments, organized labour and provincial building trades, media, economic interest groups, provincial and federal government decision-makers, government representatives, charities, service clubs, schools, and students.

Bruce Power consistently commissions Ipsos to conduct independent polling to understand and track attitudes and opinions from residents of Bruce, Grey, and Huron Counties. The polling looks at many topics and issues, including support for nuclear power, familiarity and impressions of Bruce Power, communication with residents, community outreach, and awareness and interest in specific topics related to Bruce Power's operations.

Polling in the fall of 2024 shows that support for Bruce Power's plan to explore potential expansion of the Bruce site is very strong, with 80 per cent of residents saying they support the proposal to advance the long-term planning and consultation work required to explore nuclear expansion options on the Bruce Power site.

Among residents, support for upgrading and refurbishing existing nuclear power plants to help meet Ontario's future electricity demand continues to be at an historic high of 86 per cent. More than half (53 per cent) of residents say they 'strongly support' upgrades and refurbishment.

Over nine in 10 residents (93 per cent) agree that expanding the Bruce Power facility would create jobs in the community and 86 per cent believe the expansion will be good for the community.

Almost all residents (93 per cent) who are familiar with Bruce Power regard it as a good community citizen, while 92 per cent agree the company is involved with the community in a positive way and 93 per cent have confidence that the Bruce facility operates safely.

Overall support for Bruce Power remains strong, with 86 per cent of residents in the region who are familiar with Bruce Power having a positive impression. Familiarity with Bruce Power has increased since last year from 80 to 85 per cent, with residents who say they are 'very familiar' increasing the most.

Community Issues Identified

Through our Materiality Assessment, we identified key areas important to the community that we continue to work collaboratively to address.

Economic and Employment Issues

The Clean Energy Frontier Region of Bruce, Grey, and Huron counties is home to Bruce Power, more than 60 nuclear-related companies, the Nuclear Innovation Institute (NII), and key electricity transmission lines that are connected to the fastest growing parts of the province, all bolstered by strong community support.

Given the company's multi-billion-dollar investment program, and a strong focus on establishing a local presence for its nuclear supply chain, Bruce Power has committed to bringing good jobs and economic development to the region, while establishing a local hub to lead Canada's next generation of nuclear technology.

Health Care

From 2019 to 2024, Bruce Power contributed about $4.5 million to local hospital foundations and health care initiatives including $1.5 million to the Kincardine and Community Hospital Foundation; $250,000 each being allocated to the Bruce Peninsula Health Services Foundation, the Saugeen Memorial Hospital Foundation, and the Owen Sound Regional Hospital Foundation; and $100,000 each to the Clinton Public Hospital Foundation, the Wingham District Hospital Foundation, Alexandra Marine & General Hospital Foundation, the Teeswater Medical Centre revitalization, Walkerton & District Hospital Foundation, Meaford Hospital Foundation,

Chesley & District Health Services Foundation, Centre Grey Health Services Foundation, Durham Hospital Foundation and Hanover and District Hospital Foundation. Bruce Power also made a $450,000 funding pledge to be shared between the Municipalities of Kincardine and Saugeen Shores to help offset the ongoing costs of staffing their emergency rooms from 2024 to 2026.

The company and its Supplier Partners have also been long-time supporters of local hospice care, and donated $150,000 to the Huron Shores Hospice, in Tiverton, in recognition of retiring CEO Mike Rencheck in June 2024. An additional $100,000 was donated to the Huron Hospice, in Clinton, last year.

Bruce Power and its Suppliers also donate $100,000 annually to both the Pediatric Oncology Group of Ontario and Brain Tumour Foundation of Canada to allow them to support children and families dealing with cancer.

Increased Cost of Living and Housing

In 2022, Bruce Power wrote to The Hon. Ahmed Hussen, then Minister of Housing and Diversity and Inclusion, to highlight concerns over the growing housing affordability problem in rural communities across Canada and, in particular, Bruce, Grey, and Huron Counties. The letter pointed out the Federal Government had previously referenced the establishment of an affordable housing fund for rural and Indigenous communities, and we affirmed our belief that there is an opportunity to accelerate this program. The letter noted that, as a private-sector organization, Bruce Power is creating positive economic activity and tax revenues and the re-investment of some of these proceeds into critical areas, such as this, is important to rural and Indigenous communities.

In 2024, Bruce Power invested $1.36 million in local attainable housing projects, including $1 million for Huron County's project in Goderich, and $150,000 donations to Bruce County for its additional residential program and Habitat for Humanity for its ongoing build in Owen Sound. Bruce Power also provided $60,000 in assistance for the Municipalities of Brockton and Saugeen Shores as they prepare for upcoming housing projects.

The company also made a $1 million verbal commitment to the County of Bruce once it has a housing project prepared for funding, which is expected in 2026.

In partnership with the Nuclear Innovation Institute's (NII) Clean Energy Frontier Program, Bruce Power is working collaboratively with Bruce, Grey, and Huron Counties to better understand the housing challenges and how we can support access to housing. The annual Clean Energy Frontier Summit, hosted by Bruce Power, Bruce County, and the NII, brings together elected officials from Bruce, Grey, and Huron counties, local Indigenous communities, nuclear sector supply chain representatives, education sector representatives, municipal staff, and economic development stakeholders to share strategies toward sustainable growth. During the Summit, roundtable discussions considered housing, and the consensus is that there is a need to advocate together for funding from all levels of government for housing; encourage municipalities to add infrastructure capacity to proactively support growth; review municipal

processes and set best practices and higher standards of service; and streamline approvals and reduce red tape.

Bruce Power Supplier Sponsorship

We are fortunate to have supplier partners who share our commitment to the communities in which we live, work, and play. In 2024, 41 members of Bruce Power's supply chain donated $650,000 to Bruce Power's Supplier Sponsorship Program, in support of non-profit organizations that focus on Indigenous youth, health and wellness organizations, Canadian veterans, food banks, hospital foundations, and our holiday giving program.

Taking part in this program is completely voluntary, so its continued success shows the dedication our Supplier Partners have to the communities within the Clean Energy Frontier, as well as provincial and national programs that are supported annually.

The Supplier Partners also play a large role in the success of our annual Challenger Cup Soccer Tournament, which featured 22 teams of Bruce Power and Suppliers' employees and their friends/families, raised $73,000 for local charities, including the United Way Bruce Grey, Women's House Serving Bruce Grey, and food banks in the Saugeen Ojibway Nation.

Nuclear Innovation Institute

Bruce Power continues to partner with NII Explore to support their inclusive, accessible programming and initiatives across multiple platforms in the areas of science, technology, engineering, and math, the skilled trades, and nuclear-related learning. NII Explore is targeted primarily at students in Bruce, Grey, and Huron Counties, and local Indigenous Nations and Communities. To learn more about Bruce Power's partnership with the NII, visit the Nuclear Innovation Institute's website.

Methodology

The purpose of the methodology section is to provide open and transparent information on the approach, processes, and boundaries of how each sustainability-related Key Performance Indicator (KPI), noted in the tables of this report, is calculated.

As part of our commitment to transparency, corporate governance, and alignment with evolving regulatory standards, this report integrates considerations from Bill C-59. In June 2024, Bill C-59 became law and amended Canada's Competition Act to combat greenwashing and enhance the credibility of environmental and social benefit claims made by Canadian companies. By aligning our sustainability reporting with the intent and direction of Bill C-59, Bruce Power aims to ensure that all sustainability claims are evidence-based, verifiable, and communicated with integrity. This supports our compliance with anticipated legal standards, reinforces the trust of interested parties, and reduces the risk of misrepresentation of environmental and social performance.

In Bruce Power's Sustainability Program, we currently focus on 12 material topics. In these areas, we have developed a subset of Sustainability KPIs and targets based on guidance from the United Nations Sustainable Development Goals (UN SDGs), Sustainability Accounting Standards Board (SASB), Task Force on Climate Financial Disclosures (TCFD), and the Global Reporting Initiative (GRI), in addition to our recent Sustainability Materiality Assessment which follows the approach outlined by the International Financial Reporting Standards (IFRS) S1 General Requirements for Disclosure of Sustainability-related Financial Information (IFRS S1) and the Canadian Sustainability Disclosure Standards (CSDS) 1. It is important to note that Bruce Power is not claiming full conformance to any of the noted standards; rather has used each standard to guide disclosure based on materiality. Outlined below is how we are currently calculating performance and progress for each of our Sustainability KPIs.

As the Sustainability reporting requirements and best practices continue to evolve and become more standardized, we anticipate that calculation adjustments may be required to ensure alignment. Any adjustments will be communicated in future reporting.

Scope 1 and Scope 2 Greenhouse Gas Emissions (tCO_2e)

Approach and Boundary

Bruce Power's quantification approach to greenhouse gas (GHG) emissions was developed to align with the principles and guidance provided in The Greenhouse Gas Protocol, A Corporate Accounting and Reporting Standard (GHG Protocol) developed by The World Resources Institute (WRI) and World Business Council for Sustainable Development (WBCSD).

Bruce Power utilizes the Operational Control Approach to set GHG inventory organizational boundaries. These boundaries include facilities where Bruce Power has, at least, a controlling interest from an operational perspective, or at best, the facility is owned entirely by Bruce Power. In cases where Bruce Power has operational control but does not wholly own facilities, these facilities will be included in the inventory.

Direct and indirect GHG emissions are included in the scope of the Bruce Power's GHG Inventory:

Scope 1: Direct GHG emissions – Direct GHG emissions occur from sources that are owned or controlled by Bruce Power including stationary combustion, mobile combustion, and process and fugitive emissions.

Scope 2: Indirect GHG emissions – Indirect GHG emissions occur from the generation of purchased electricity, steam, and heating/cooling consumed by Bruce Power. Purchased electricity is defined as electricity that is purchased or otherwise brought into the organizational boundary of the company. Scope 2 emissions are calculated using the location-based and market-based method where the market-based method was calculated using an emission rate of 0 M tCO_2e/MWh for Clean Energy Credits (CECs) derived from nuclear power

The GHG inventory base year is used as a basis for setting and tracking progress towards GHG targets. Based on a review of Bruce Power's scope 1 and scope 2 GHG emissions between 2015 and 2020, a base year of 2019 was selected as the emissions during that year were considered to be normal following the removal of the steam plant.

The following cases shall trigger recalculation of base year emissions:

- Structural changes in the reporting organization (i.e., change in ownership or control of emissions generating activities, and outsourcing and insourcing of emitting activities).
- Changes in calculation methodology, improvements in the accuracy of emissions factors, or activity that would result in a significant (5 % or more) change in emissions.

The inventory base year is not recalculated for organic growth/decline, in out/in-sourcing activities previously accounted for in different scope.

Emission Factor References

Scope 1 emissions: Canada's Greenhouse Gas Quantification Requirements, Intergovernmental Panel on Climate Change Assessment Report, US EPAs Mandatory Greenhouse Gas Reporting Rule 40 CFR

Scope 2 emissions: National Inventory Report (NIR) for Canada, The Climate Registry's Default Emission Factors, Canada's Greenhouse Gas Quantification Requirements.

Net Greenhouse Gas Emissions - Scope 1 and 2 Emissions, Carbon Offsets Retired, Clean Energy Credits Retired (tCO_2e)

Boundary

Net GHG Emissions refers to total scope 1 and market-based scope 2 emissions minus any retired carbon offsets or clean energy credits each year. Annual emissions reduction targets are set against a 2019 baseline as part of Bruce Power's Net Zero Strategy. If an emissions reduction target is not met by operational initiatives each year, a specific number of purchased carbon offsets or Clean Energy Credits (CECs) are retired to make up the difference and ensure

that the target is met. Annual emissions reduction targets are set using the market-based method.

GHG Emissions Intensity (tCO_2e/GWh)

GHG emissions intensity is based on total annual scope 1 and 2 emissions before offsets or Clean Energy Credits are applied, and the annual power generated by the Bruce Power site, excluding deemed generation.

The intensity calculation is completed by dividing the total annual GHG emissions by annual power generated to attain a tCO_2e / GWh metric.

Scope 3 GHG Emissions ($M\ tCO_2e$)

Approach and Boundary

Scope 3 emissions are a consequence of the activities of Bruce Power but occur from sources not owned or controlled by Bruce Power. Of the 15 categories of scope 3 emissions defined by the GHG Protocol, Bruce Power tracks 12 that are relevant to operations:

- Purchased Good and Services
- Capital Goods
- Fuel and Energy related activities (not included in scope 1 or 2)
- Upstream Transportation
- Waste Generated in Operations
- Business Travel
- Employee Commuting
- Downstream Transportation and Distribution (medical isotopes)
- Processing of Sold Products (medical isotopes)
- Use of Sold Products (medical isotopes)
- End of Life treatment of sold products (medical isotopes)
- Downstream leased assets (buildings)

Currently, Bruce Power is estimating a large proportion of scope 3 emissions using the spend-based method, which takes economic value of goods and/or services and multiplies by an average emission factor. As scope 3 emission categories are more difficult for organizations to quantify than scope 1 or 2 emissions due to the wide range of sources, categories, vendors, etc., emissions estimates vary depending on the data source utilized.

Emission Factor References

- Supply Chain Greenhouse Gas Emission Factors for US Industries and Commodities. U.S. Environmental Protection Agency
- Government of Alberta (2023). Carbon Offset Emission Factors Handbook, Version 3.1. Retrieved from Carbon Offset Emission Factors Handbook
- Department for Energy Security and Net Zero and Department for Business, Energy and Industrial Strategy (2019). Greenhouse gas reporting: conversion factors 2019. Retrieved from Greenhouse gas reporting: conversion factors 2019 - GOV.UK
- GHG Emission Factors Hub | US EPA
- National Inventory Report (NIR) for Canada, 2021

Number of Clean Energy Credits (CECs) from Bruce Power Incremental Output Issued in Registry

Bruce Power offers Clean Energy Credits (CECs) to Ontario-based corporate electricity customers from incremental generation output. CECs issued by Bruce Power's incremental generation output are tracked in the M-RETS Registry by issuing a unique certificate for every MWh. Through the M-RETS Registry, CECs from nuclear power generation can be issued and retired to support scope 2 emissions reductions.

In accordance with the GHG Protocol Scope 2 Guidance, scope 2 emissions are calculated using both the location-based and market-based methods when CECs are retired against those scope 2 electricity emissions. Bruce Power's Net Zero strategy includes the use of retired CECs against our own scope 2 electricity emissions; thereby reporting market-based scope 2 emissions.

Number of Trees Planted Annually Supported by Bruce Power Environment & Sustainability Fund

Approach and Boundary

Tree planting projects are currently funded by Bruce Power's Environment & Sustainability (E&S) Fund. These projects include those related to long-term partnerships, and those that apply for sponsorship through the E&S fund in a given year or years.

At the end of each year, tree planting projects supported by the E&S Fund are followed up with to verify that tree planting occurred and to validate how many trees were planted supported by the funding provided. Tree numbers are then logged internally for our records and reporting.

Non-Carbon Emitting Energy Production via Bruce Power Annual Generation (TWh)

The quantification of non-carbon emitting energy production associated with Bruce Power's annual generation is calculated using the annual TWh generated by the Bruce Power site, excluding deemed generation.

Non-carbon emitting energy production refers to direct emissions from the generation plant only and does not include wider lifecycle emissions such as extraction, processing, and fuel transport.

Ontario Grid Emissions Avoidance via Bruce Power Annual TWh Generation (tCO_2e)

Previous Methodology

This methodology is applied to 2020 and 2021 data for this KPI.

Bruce Power's avoided emissions are based on the guidelines outlined within the working paper by the World Resources Institute, Estimating and Reporting the Comparative Emissions Impacts of Products. Within the GHG Protocol, the working paper offers a neutral framework for estimating and disclosing both positive and negative impacts. This calculation uses the "attributional estimation approach" which takes the difference in total life cycle GHG emissions between our company's product and the emissions of combined natural gas, an alternative product for the province of Ontario. Based on our electricity grid make up, natural gas would be the most logical choice of replacement in a situation where nuclear was not available to the grid. Lifecycle emissions are used from the Intergovernmental Panel on Climate Change Life Cycle Assessment 2014, the life cycle emissions for nuclear power includes uranium mining, enrichment, and fuel fabrication, plant construction, use, decommissioning and long-term waste storage.

It is assumed that annually the actual TWh output that Bruce Power generates would be replaced in totality by the combined natural gas. The equation looks at in a normal year what the emissions would be from a lifecycle standpoint from nuclear, and then what they would be alternatively from combined natural gas and subtracts the nuclear from the combined natural gas to create the avoided emissions value.

Bruce Power acknowledges that this approach ignores market mediated effects, and that this calculation is relatively simple estimation approach. It is recognized that there are varying degrees in which a company can calculate the emissions avoidance. Results can vary based on the scope of each study. For example, one study could define lifecycle, and include waste management and treatment in scope while some exclude waste (World Nuclear Organization (July 2011). Comparison of Lifecycle Greenhouse Gas emissions of Various Electricity Generation Sources). To not over inflate the benefit of avoided emissions, the calculation created for Bruce Power uses combined natural gas which has lower lifecycle emissions than a traditional natural gas value by nearly 40 per cent.

Current Methodology

This methodology is applied to 2022 to 2024 data for this KPI.

The quantification of GHG avoidance associated with Bruce Power's annual generation, associated with zero direct emissions, considers the annual TWh generated by the Bruce Power site, excluding deemed generation and generation issued in the CEC registry.

In our avoided emissions calculation, we compare the annual output associated with nuclear, i.e., output resulting in zero direct emissions with the amount of GHG emissions that would result from the same power output being provided from natural gas electricity generation in the Ontario grid, instead of nuclear.

Data is sourced annually from Government of Canada's National Inventory Report (NIR) to calculate the greenhouse gas intensity of electricity generated from natural gas in Ontario for this comparison. The annual output of Bruce Power (TWh) is then multiplied by the greenhouse gas intensity of natural gas electricity generation (gCO_2e/kWh) to determine the annual amount of greenhouse gas emissions avoided via electricity generated by Bruce Power.

It is of note that the NIR data represents direct emissions from the generation plant only and does not include wider lifecycle emissions such as extraction, processing, and fuel transport, which results in inherently higher generation intensity values.

Total Value of Environment & Sustainability Fund Allocated

The Environment & Sustainability (E&S) fund typically contains a $400,000 budget, distributed amongst long term partnership agreements, sponsorship, and general operating and maintenance of the external facing Environment & Sustainability Program initiatives. Depending on the year, the amount available to be distributed to E&S fund applicants can vary.

Applicants to Bruce Power's E&S fund submit funding applications via the Sponsorium platform, linked from the Bruce Power website. Submitted applications are ranked on the Sponsorium platform, as well as evaluated internally by the E&S Fund program lead and peers from the Environment & Sustainability division, on applicability and alignment to the fund objectives. Funding recommendations are then presented to Bruce Power's Environment & Sustainability Oversight Committee for ratification.

Weight of Conventional Waste Generated (MT) and Diversion Rate (%)

Boundary

A third-party vendor conducts an annual site review and conventional waste audit for Bruce Power. The annual Waste audit is conducted to achieve compliance with Ontario Regulation 102/94: Waste Audits and Waste Reduction Work Plans (Ontario Regulation 102/94) set by the Ministry of the Environment, Conservation and Parks (MECP).

During the conventional waste audit, the vendor weighs and analyzes an approximate 24-hour sample of waste that consists of all the non-hazardous, solid waste generated from regular activities at the site, including waste destined for reuse, recycle, compost, and disposal. This is done to determine the amount, nature, and composition of the waste generated. The vendor also analyzes data on total conventional waste streams shipped off site by licensed waste haulers for the year. The results of the conventional waste audit are used to assess the site's waste diversion efforts as well as the capture rate (effectiveness) of the recycling and composting programs. The approved Waste Audit Report is posted on the Environment intranet homepage for all site employees to review and is filed annually into internal records.

Calculations

The diversion rate refers to the portion by weight of all material diverted from landfill to the total weight of all waste material generated, expressed as a percentage.

Hazardous Waste Diversion Rate – Oil Recycling (%)

Boundary

The oil recycling program, established with the hazardous waste vendor, includes drummed and bulk (totes or larger) transformer oil, turbine lubricating oils, or other lube oils but does not include fuel oils. Generally, recyclable oil assumes < 10% water, no solids, no PCBs, no silicone, and < 1000 ppm halogens. Operators will bulk oil into drums and totes, and it may be required to put it through an oil water separator to reduce the water percentage. After off-site shipment of the recyclable oil occurs, the recycling vendor will sample the oil upon receiving it and will notify Bruce Power if contamination is found in the oil.

Calculations

The hazardous waste diversion rate is calculated by taking the total volume of oil disposed of in bulk and dividing it by the volume confirmed recycled by the hazardous waste vendor to achieve a percentage.

Total Water Drawn from Lake Huron (million cubic meters)

Boundary and Calculation

Total water withdrawn from Lake Huron is calculated using the Permit to Take Water (PTTW) annual reports for Bruce A, Bruce B, and Centre of Site. Each site has its own system to calculate and estimate daily intake volumes as approved by Ministry of Environment Conservation and Parks.

Total Water Returned to Lake Huron (million cubic meters)

Boundary and Calculation

Total Bruce Power water discharged to Lake Huron is equal to total water intake minus net water consumption. The intake water is calculated using Permit to Take Water (PTTW) Annual Reports for Bruce A, Bruce B and Central Site. Each site has its own system to calculate and estimate daily intake volumes.

Bruce Power Environment Officers verify the PTTW data against PTTW limits and the reports are submitted to Ministry of Environment Conservation and Parks.

Net Water Consumption from Lake Huron (million cubic meters)

Boundary

Net consumption of Lake Water by Bruce Power is very small fraction of the total water taken (drawn) from the Lake Huron. Greater than 99.99 per cent of Intake water is discharged back to the Lake (environment).

Drinking water is the only water that is consumed by Bruce Power. Demineralized water is also produced by Bruce Power using lake water, but the majority is returned to the lake with the remainder returned to the atmosphere in the form of steam. The major opportunity and scope for Bruce Power is to minimize Domestic Water production via domestic water consumption enhancement and improvements.

Calculation

To calculate net water consumption, site-wide (Bruce A, Bruce B, and Central site), sewage volumes are subtracted from site wide raw water usage volumes for domestic water and condensate make up (demineralized water). Although demineralized water is returned to the environment, it is included in this metric for conservatism.

Water Use Intensity - Water Consumed/Power Generated (m^3/MWh)

Water use intensity is based on Permit to Take Water (PTTW) annual reports for Bruce A, Bruce B and Centre of Site, and the annual power generated by the Bruce Power site, excluding deemed generation.

The intensity calculation is completed by dividing the total water consumed by annual power generated to attain a m^3 / MWh metric.

Significant Incidents of Non-Compliance Associated with Water Quantity

Bruce Power's Permits to Take Water (PTTWs) include a daily maximum allowed water taking for Bruce A, Bruce B and Centre of Site. Non-compliances are exceedances of the daily maximum.

Environment Officers verify the PTTW data against PTTW Limits and The Reports are submitted to the MECP.

Significant Incidents of Non-Compliance Associated with Water Quality

Significant environmental incidents include any environmental incident that results in moderate or significant environmental impacts or current and future remediation costs of greater than $1 million or has reasonable potential to result in significant negative impact on the company's reputation.

Annual Dose to Public

The dose to public is calculated using guidance as per CSA N288.1. For full description of methodology please see Bruce Power's 2024 Environmental Protection Report.

Net Land Preservation vs Disturbance (Hectares)

In 2017, a third-party consultant performed an Ecological Land Classification assessment of the Bruce Power site and surrounding areas and reported that approximately 55% (887 hectares) of land was undisturbed and capable of supporting a diverse level of biodiversity.

Bruce Power strives to maintain this biodiversity by targeting a net positive balance of at least 40 hectares of land preserved or conserved offsite through the Environment & Sustainability Fund versus land disturbed on-site for development projects.

Land disturbance and potential habitat degradation on-site is tracked through the Environmental Impact Workflow (EIW) process (which is a tool in Bruce Power's Environmental Management System). The EIW characterizes the environmental risk of projects and specifies mitigation measures to be taken.

Invasive Species Management (Phragmites) in Baie du Doré

Baie du Doré is a Provincially Significant Wetland located just north of Bruce Power on the shore of Lake Huron. In 2014, an assessment of this wetland found that invasive Phragmites had become established in approximately 60 per cent of the wetland. Invasive Phragmites crowd out native vegetation, reduce plant diversity, and generally provide poor habitat and food supplies for wildlife. In 2017, Bruce Power, OPG, and the Invasive Phragmites Control Centre joined forces to remove Phragmites from the wetland. Between 2017 and 2022, the team targeted high and intermediate density stands, successfully restoring an area of about 60 hectares. Annual assessment and treatment of Phragmites continues.

The goal of this initiative is to eradicate Phragmites from Baie du Doré, if possible, or at least control the population to a low density.

Each year, Bruce Power reports on the status of Phragmites management in Baie du Doré, using the density of Phragmites (high, intermediate, low, absent) as a measure of success.

Sitewide Environmental Health Index (EHI)

Environmental Health Index (EHI) is a measure of overall environmental health at Bruce Power as defined by compliance, performance, continuous improvement, and oversight assessment metrics. EHI is calculated monthly for each facility (Bruce A, Bruce B, and Center of Site) and

trended on a year-to-date basis. In 2023, a change to the EHI methodology occurred, and the metric is now reported on a rolling 12-month average for site.

% of Women Relative to the Workforce

This metric is the percentage of the workforce self-identified as women reported as part of Employment Equity annual reporting (WEIMS).

% of Racialized People Relative to the Workforce

This metric is the percentage of the workforce self-identified as racialized people (visible minorities) reported as part of Employment Equity annual reporting (WEIMS).

Severe Injury Rate (SIR)

A frequency rate based on the number of Severe Injuries for Bruce Power personnel per 200,000 hours worked.

Contractor - Severe Injury Rate (C-SIR)

A frequency rate based on the number of Severe Injuries for Contractor personnel per 200,000 hours worked.

Fatality Rate - Employees

A frequency rate based on the number of Fatalities for Bruce Power personnel per 200,000 hours worked.

Fatality Rate – Contractors

A frequency rate based on the number of Fatalities for Contractor personnel per 200,000 hours worked.

Emergency Preparedness - Annual Number of Drills / Response Exercises

An annual drill and exercise schedule is prepared in the final quarter of the previous year. A draft drill and exercise schedule goes through various levels of approvals before the final approval from the Senior Vice President, Operational Services and Business Development. The annual drill and exercise program covers all required regulatory, qualification, and proficiency improvement opportunities to ensure emergency response is maintained to a high standard at the Bruce Power site. The drill and exercise program are fully funded by Bruce Power which on occasion also pays for the involvement of external subject matter experts to assist (e.g., Kinectrics).

The drills and exercises are tracked on a weekly basis and the drill and exercise program is managed by a dedicated resource in the Department (Drill/Exercise Developer).

Emergency Preparedness – % Emergency Response Organization-Qualified Staff Above Minimum Requirements

For the Emergency Response Organization (ERO), we aim to maintain the number of qualified staff for each position at 120 per cent to ensure there will always be people trained and qualified to respond.

This is the metric identified as Business Flexibility. This metric is derived from the ERO Training Scorecard which is produced and distributed monthly to ensure adequately trained and qualified staff are available to fulfill the ERO positions. The ERO training scorecard is reviewed monthly and there is a follow-up with individuals and their supervisors for anyone who loses their ERO qualifications.

% of Services and Materials Spent in Ontario

Boundary

This metric is derived from a summation of the amounts paid to suppliers. This data is collected from reporting tools managed by the Supply Chain Analytics Team. The supplier payment data is compiled from Bruce Power's Enterprise Asset Management System. Identifying markers for geography are input by the responsible Supply Chain procurement personnel.

Calculation

% of services and materials spent in Ontario = sum of the $ value of services and materials paid to suppliers in Ontario / sum of the $ value of services and materials paid to all suppliers.

% of Services and Materials Spent in Canada

Boundary

This metric is derived from a summation of the amounts paid to suppliers. This data is collected from reporting tools managed by the Supply Chain Analytics Team. The supplier payment data is compiled from Bruce Power's Enterprise Asset Management System. Identifying markers for geography are input by the responsible Supply Chain procurement personnel.

Calculation

% of services and materials spent in Canada = sum of the $ value of services and materials paid to suppliers in Canada / sum of the $ value of services and materials paid to all suppliers.

Total Value of Sponsorships & Donations

A guiding document BPET-09-16 spells out our philosophy and budget regarding social responsibility, one of our four core values. Bruce Power's Corporate Social Responsibility Program consists of five components, each with assigned budgets within Corporate Affairs in the approved Business Plan. Funds allocated for these may be adjusted depending on broader business needs.

Appendix

Environment

KPI	Standard guidance is taken from *	2019 Baseline	2021	2022	2023	2024 Target	2024 Actual	2025 Target	UN SDG Alignment
Scope 1 GHG Emissions (tCO_2e)	IF-EU110a.1, GRI 305-1	6,946	7,813	8,087	5,279	See Net GHG Emissions	7,739	See Net GHG Emissions	UNSDG 7 – Affordable and Clean Energy UNSDG 13 – Climate Action
Location-based Scope 2 GHG Emissions (tCO_2e) [1]	GRI 305-2	15,381	14,201	15,808	15,615	See Net GHG Emissions	13,387	See Net GHG Emissions	UNSDG 7 – Affordable and Clean Energy UNSDG 13 – Climate Action
Market-based Scope 2 GHG Emissions (tCO_2e)	GRI 305-2	15,381	14,201	15,808	11,465	See Net GHG Emissions	6,215	See Net GHG Emissions	UNSDG 7 – Affordable and Clean Energy UNSDG 13 – Climate Action
Carbon Offsets Retired (tCO_2e)	See Methodology	0	804	4,360	0	See Net GHG Emissions	0	See Net GHG Emissions	UNSDG 7 – Affordable and Clean Energy UNSDG 13 – Climate Action
Retired Clean Energy Credits (CECs) / Renewable Energy Credits (RECs) Allocated to Market-based Scope 2 Electricity Emissions (tCO_2e) [2]	See Methodology	0	0	0	4,150	See Net GHG Emissions	7,172	See Net GHG Emissions	UNSDG 7 – Affordable and Clean Energy UNSDG 13 – Climate Action

KPI	Standard guidance is taken from *	2019 Baseline	2021	2022	2023	2024 Target	2024 Actual	2025 Target	UN SDG Alignment
Net GHG Emissions - Scope 1 and 2 Emissions, Carbon Offsets Retired, Clean Energy Credits Retired (tCO_2e) [3] [4]	See Methodology	22,327	21,210	19,535	16,744	13,954 (37.5% reduction from 2019 baseline)	13,954	11,164 (50% reduction from 2019 baseline)	UNSDG 7 – Affordable and Clean Energy UNSDG 13 – Climate Action
GHG Emissions Intensity (tCO_2e)/GWh	GRI 305-4	New Indicator	New Indicator	New Indicator	New Indicator	≤ 0.48	0.46	≤ 0.54	UNSDG 7 – Affordable and Clean Energy UNSDG 13 – Climate Action
Scope 3 GHG Emissions (M tCO_2e)	GRI 305-3	0.88	Not applicable	0.83	0.60	No target	0.45	No target	UNSDG 7 – Affordable and Clean Energy UNSDG 13 – Climate Action
Number of Clean Energy Credits (CECs) from Bruce Power Incremental Output Issued in Registry	See Methodology	Not applicable	Not applicable	Not applicable	597,168	No target	767,534	No target	UNSDG 7 – Affordable and Clean Energy UNSDG 13 – Climate Action

1. We apply the GHG protocol Scope 2 Guidance and report our scope 2 emissions using both market-based and location based-methods. Based on current operations, the results for the market-based and location-based methods are equivalent for 2019 - 2022.
2. The energy generation technology from which the CECs are derived is nuclear power with an emission rate of 0 M tCO_2e/MWh.
3. Net GHG emissions are the product of scope 1 emissions, applied Verified Emission Reductions (VERs), and market-based scope 2 emissions. The goals/targets are based on the market-based scope 2 calculation method.
4. Residual mix emission factors for the Ontario IESO grid are not publicly available.

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KPI	Standard guidance is taken from *	2020	2021	2022	2023	2024 Target	2024 Actual	2025 Target	UN SDG Alignment
Number of Trees Planted Annually Supported by Bruce Power's Environment & Sustainability Fund	See Methodology	21,661	36,610	22,400	7,370	≥ 5,000	4,391	≥ 5,000	UN SDG 15 – Life on Land
Non-Carbon Emitting Energy Production via Bruce Power Annual Generation (TWh)	See Methodology	New Indicator	New Indicator	New Indicator	New Indicator	No Target	45.98	No Target	UN S D G 7 – Affordable and Clean Energy
Ontario Grid Emissions Avoidance via Bruce Power Annual TWh Generation (tCO_2e)	See Methodology	20,726,400	20,310,220	17,997,309	17,556,047	20,765,773	20,316,394	18,190,835	UN SDG 7 – Affordable and Clean Energy
Total Value of Environment & Sustainability Fund Assigned	See Methodology	$ 375,200	$ 320,000	$ 400,000	$ 512,150	$ 400,000	$ 458,180	$ 400,000	UN SDG 14 – Life Below Water UN SDG 15 – Life on Land
Weight of Conventional Waste Generated (MT)	GRI 306-3	1,827.5	2,051.43	2,597.50	2,286.90	No target	2,555.18	No target	UN SDG 5 – Responsible Consumption and Production
Conventional Waste Diversion Rate (%)	GRI 306-4	69.8%	69.0%	71.16%	69.1%	≥ 71%	70.5%	≥ 71%	UN SDG 5 – Responsible Consumption and Production
Hazardous Waste Diversion Rate – Oil Recycling (%)	GRI 306-4	Not applicable	24%	87%	70%	≥ 50%	60%	≥ 50%	UN SDG 5 – Responsible Consumption and Production
Total Water Drawn from Lake Huron (million cubic meters)	IF-EU-140a.1, IF-EU-140a.3, GRI 303-3	9,409	8,637	8,940	9,348	< 11,645.3	9,105	< 11,645.3	UN SDG 6 – Clean Water and Sanitation

KPI	Standard guidance is taken from *	2020	2021	2022	2023	2024 Target	2024 Actual	2025 Target	UN SDG Alignment
Total Water Returned to Lake Huron (million cubic meters)	IF-EU-140a.1, GRI 303-4	9,406	8,634	8,937	9,346	No target	9,102	No target	UN SDG 6 – Clean Water and Sanitation
Net Water Consumption from Lake Huron (million cubic meters)	IF-EU-140a.1, IF-EU-140a.3, GRI 303-5	2.2	2.1	2.1	1.9	≤ 2.3	2.04	≤ 2.3	UN SDG 6 – Clean Water and Sanitation
Water Use Intensity - Water Consumed/Power Generated (m^3/MWh)	IF-EU-140a.3	New Indicator	New Indicator	New Indicator	New Indicator	≤ 0.050	0.044	≤ 0.057	UN SDG 6 – Clean Water and Sanitation
Significant Incidents of Non-Compliance Associated with Water Quantity	IF-EU-140a.2	0	0	0	0	0	0	0	UN SDG 6 – Clean Water and Sanitation
Significant Incidents of Non-Compliance Associated with Water Quality	IF-EU-140a.2	0	0	0	0	0	0	0	UN SDG 6 – Clean Water and Sanitation
Annual Dose to Public	CSA N288.1	1.8 µSv/yr	1.6 µSv/yr	2.4 µSv/yr	1.4 µSv/yr	< 10 µSv/yr	1.1 µSv/yr	< 10 µSv/yr	Not applicable
Net Land Preservation vs Disturbance (Hectares)	See Methodology	New Indicator	New Indicator	New Indicator	54.5	≥ 40	54.1	≥ 40	UN SDG 15 – Life on Land
Invasive Species Management (Phragmites) in Baie du Doré	See Methodology	New Indicator	New Indicator	New Indicator	Medium-density Phragmites cells remain **	Phragmites eradicated or population density is low	Medium-density Phragmites cells remain (preliminary data)	Phragmites eradicated or population density is low	UN SDG 14 – Life Below Water UN SDG 15 – Life on Land
Sitewide Environmental Health Index (EHI)	See Methodology	90%	91%	93%	94%	≥ 92%	95%	≥ 92%	UN SDG 14 – Life Below Water UN SDG 15 – Life on Land

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** Performance metric has been corrected from previous report, due to updated data.

People and Safety

KPI	Standard guidance is taken from *	2019 Baseline	2020	2021	2022	2023	2024 Target	2024 Actual	2025 Target	UN SDG Alignment
% of Women Relative to the Workforce	GRI 405-1	21.4%	21.1%	21.8%	21.8%	22.7%	23.2%	22.4%	Not applicable – Indicators Updated in 2025	UN SDG 5 – Gender Equality
% of Racialized People Relative to the Workforce	GRI 405-1	7.8%	8.1%	9.0%	9.5%	11.4%	11.7%	11.6%	Not applicable – Indicators Updated in 2025	UN SDG 10 – Reduced Inequalities

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KPI	Standard guidance is taken from *	2020	2021	2022	2023	2024 Target	2024 Actual	2025 Target	UN SDG Alignment
Severe Injury Rate (SIR)	IF-EU-320a.1, GRI 403-9	New Indicator	New Indicator	New Indicator	0	0	0.08	0	UN SDG 8 – Decent Work and Economic Growth
Contractor - Severe Injury Rate (C-SIR)	IF-EU-320a.1, GRI 403-9	New Indicator	New Indicator	New Indicator	0	0	0	0	UN SDG 8 – Decent Work and Economic Growth
Fatality Rate - Employees	IF-EU-320a.1, GRI 403-9	0	0	0	0	0	0	0	UN SDG 8 – Decent Work and Economic Growth
Fatality Rate - Contractors	IF-EU-320a.1, GRI 403-9	0	0	0	0	0	0	0	UN SDG 8 – Decent Work and Economic Growth

KPI	Standard guidance is taken from *	2020	2021	2022	2023	2024 Target	2024 Actual	2025 Target	UN SDG Alignment
Emergency Preparedness - Annual # of Drills/Response Exercises	IF-EU-540a.2	75	113	115	96	≥ 75	71	≥ 45	UN SDG 11 – Sustainable Cities and Communities
Emergency Preparedness - % Emergency Response Organization-qualified Staff Above Minimum Requirements	IF-EU-540a.2	117%	119.4%	119.9%	119.5%	≥ 115%	119.5%	≥ 115%	UN SDG 11 – Sustainable Cities and Communities

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Products and Services

KPI	Standard guidance is taken from *	2020	2021	2022	2023	2024 Target	2024 Actual	2025 Target	UN SDG Alignment
% Services and Materials Spent in Ontario	GRI 203-2, GRI 204-1	85.2%	86.4%	83.1%	78.10%	≥ 88%	83.7%	≥ 88%	UN SDG 8 – Decent Work and Economic Growth UN SDG 9 – Industry, Innovation and Infrastructure
% Services and Materials Spent in Canada	GRI 203-2, GRI 204-1	91%	92.1%	90.5%	87.20%	≥ 90%	88.9%	≥ 90%	UN SDG 8 – Decent Work and Economic Growth UN SDG 9 – Industry, Innovation and Infrastructure

Community

KPI	Standard guidance is taken from *	2020	2021	2022	2023	2024 Target	2024 Actual	2025 Target	UN SDG Alignment
Total Value of Sponsorships & Donations	See Methodology	$ 4,000,000	$ 2,060,000	$ 2,060,000	$ 4,140,400	≥ $2,500,000	$ 3,808,000	≥ $2,500,000	UN SDG 3 – Good Health and Well-being

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