

2024

Sustainability Report



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A symbol of commitment to reconciliation

Over the years, Enbridge has been honored with blankets gifted from Indigenous groups.¹ These blankets served as a source of inspiration for the symbol above and our *Continuing our Path to Reconciliation Report*. We honor these gifts and their importance to the fabric of our culture, and our dedication to continued learning and inclusion of Indigenous culture, heritage and teachings in our everyday lives.

Enbridge has committed through our Indigenous Reconciliation Action Plan (IRAP) to report progress on our journey with Indigenous communities in our Sustainability Report (IRAP Pillar 5). Clicking on this blanket icon adjacent to a description of a Pillar in our IRAP takes you to our aspirational goals, timelines and progress to date starting on page 98.



Cover: Grazing sheep peer out from under a solar panel at Enbridge’s 80-megawatt solar farm in Sarnia, Ontario. In 2024, 270 sheep were used to manage vegetation at the facility. This approach helps support biodiversity by eliminating the need for pesticides and promoting native plants. Learn more about the vegetation management pilot program on page 35.

Note to users

This document contains references to Enbridge’s [website](#). These references are for readers’ convenience only. This document also has links to websites owned and operated by third parties. When clicking on those links, users will leave our website. These links are provided for additional information and convenience only. Enbridge is not responsible for third-party websites or their content. Enbridge is not incorporating by reference any information posted on [enbridge.com](#) or any third-party website. The terms “we,” “our,” “us,” “Company” and “Enbridge” as used in this document refer collectively to Enbridge Inc., its subsidiaries, and the joint ventures which it operates, unless the context suggests otherwise. These terms are used for convenience only and are not intended as a precise description of any separate legal entity within Enbridge. Unless otherwise specified, all dollar amounts are expressed in Canadian dollars; all references to “dollars,” “\$” or “C\$” are to Canadian dollars and all references to “US\$” are to United States dollars. All amounts are provided on a before-tax basis, unless otherwise stated. References to the “energy evolution” and “energy transition” are used throughout the report to refer to the continually evolving nature of the global energy landscape (see page 3 for a more fulsome description).

¹ In this report we use the term “Indigenous groups” when referring to Indigenous nations, governments or groups in Canada and/or Native American Tribes and Tribal associations in the United States. We have the utmost respect for the unique rights and individual names of Indigenous groups across Turtle Island. This collective term is used solely for the purpose of the readability of the Sustainability Report.

About this report

This report, and our suite of related publications, represent Enbridge's ongoing focus on transparency and the disclosure of sustainability-related activities and performance relevant to our business and stakeholders. We remain accountable by engaging with our stakeholders, addressing material¹ topics and aiming to provide a balanced view of our performance. For further information on how we manage key topics, we have included links to our [Management Approach documents](#) – which are reviewed and updated annually – on the relevant pages of this report.

A few highlights for this year's report:

- In 2024, completed the acquisition of three natural gas utilities in the United States from Dominion Energy (U.S. gas utilities).² These assets are now included as part of this report unless otherwise noted.
- Continued our extended methane disclosure (starting on page 17).
- Expanded our disclosure of transition-related risks and opportunities (starting on page 77).
- Marked our third year of reporting progress relative to our Indigenous Reconciliation Action Plan (starting on page 98).

Reporting boundaries

The scope of this report includes Enbridge Inc., its wholly owned subsidiaries and joint ventures which it operates, unless otherwise noted. This report focuses on performance and activities from January 1 to December 31, 2024, and significant events early in 2025. For more information about our reporting methodology, see page 24 of the [2024 Datasheet](#). Data exclusions or additions are noted throughout the report.

Reporting standards

We have steadily enhanced and expanded our sustainability reporting practices over the past 24 years and we work to maintain pace with reporting guidance and frameworks as they rapidly evolve. The following reporting standards have informed our approach to reporting: Global Reporting Initiative (GRI) Universal Standards and GRI 11: Oil and Gas Sector Standard; Sustainability Accounting Standards Board standards for Oil and Gas Midstream and Gas Utilities and Distributors; Task Force on Climate-related Financial Disclosures; UN Sustainable Development Goals; and the UN Global Compact. For more information see page 111.

Assurance

As part of our focus on standardizing our reporting methodology, we engage an independent third party to provide limited assurance on select key performance indicators tied to select material¹ topics, including workforce metrics, Scope 1 greenhouse gas (GHG) emissions, Scope 2 GHG emissions, selected Scope 3 GHG emissions categories, total energy consumption (fuel and electricity), methane emissions and GHG emissions intensity. See page 27 of our [2024 Datasheet](#) to review the complete assurance statement.

How we look at 'energy transition' and 'energy evolution'

Throughout this report, we refer to the terms “energy transition” and “energy evolution” – sometimes interchangeably, which reflects the continually evolving nature of the global energy landscape. We, and our society, increasingly recognize the need for secure and reliable energy while concurrently reducing global greenhouse gas emissions. Through collaboration with regulators, policymakers and other stakeholders, we aim to balance these factors and believe this will take an “all-of the-above” approach. As a company with diverse energy infrastructure, we are uniquely positioned to help support the energy transition – or energy evolution. For us, this includes reducing the emissions intensity of the conventional fuels we transport and store, facilitating the shift from higher emission energy sources to natural gas, advancing the integration of renewable energy sources like wind and solar, and investing in infrastructure for emerging solutions such as renewable natural gas and carbon capture and storage (CCS). Learn more about Enbridge's approach to the energy transition in our [2025 Strategic Plan](#).

Legal notice

This Sustainability Report contains forward-looking information or forward-looking statements as well as information and data related to Enbridge's sustainability-related goals, activities, commitments and plans and statements about the environmental benefits of our business activities and potential effects of our business on climate change. Please see “Forward-looking information” and “Sustainability-related disclosures” on page 112 of this report.

Reporting suite

In addition to our Sustainability Report, sustainability-related information can be found in the corporate disclosure reports listed below.



[2025 Management Information Circular](#)



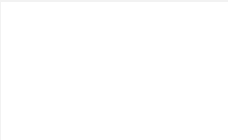
[2024 Annual Report](#)



[2024 Datasheet](#)



[Indigenous Reconciliation Action Plan](#)



[Fighting forced labour and child labour in supply chains report](#)

¹ References to the terms “material,” “materiality assessments” and similar terms throughout this report are used specifically to identify the sustainability topics of greatest importance to our stakeholders and do not correspond to the concept of materiality under Canadian or U.S. securities laws.

² U.S. gas utilities referenced in this report include: Enbridge Gas Utah, Enbridge Gas Wyoming, Enbridge Gas Idaho, Enbridge Gas North Carolina and Wexpro Company.

CEO and Board Chair message

At Enbridge, we continue to focus on safely providing the energy needed today while simultaneously advancing solutions for tomorrow. In 2024, we continued to grow all areas of our business, taking steps to reinforce our goal to be the first-choice energy delivery company for our customers, communities, investors, regulators, policymakers and employees.

'All-of-the-above' approach to the energy transition

Over the year, we saw demand for energy continue to grow, driven by factors including population growth, data centers and artificial intelligence, and the resurgence of North American manufacturing. To meet increased demand across North America and around the world, while continuing to drive down emissions intensity, we believe an energy evolution, which will take all forms of energy, will be required. Economies, societies and consumers benefit from reliable, affordable and sustainable energy choices. [Enbridge's strategy](#) and our portfolio of oil, natural gas and renewable power businesses are critical to maintaining a balanced approach that we believe enables a durable energy evolution.

Leveraging our strengths

In this "all-of-the-above" approach, the need for natural gas as a key energy source continues to be validated by consumer behavior and strong market fundamentals. Natural gas is plentiful, and versatile as a fuel and feedstock that complements other forms of energy. When the sun doesn't shine and the wind doesn't blow, natural gas is a stable power solution. In cold snaps and heat waves, natural gas is there, quickly and easily dispatchable to meet peak demand. Natural gas is always on – serving as a reliable source for commercial, residential and industrial energy needs.

Supporting our belief in the crucial role of natural gas, this past year, we completed the acquisition of natural gas distribution businesses in Idaho, North Carolina, Ohio, Utah and Wyoming. This was a strong move for us, and we saw it as a once-in-a-generation opportunity to acquire three high-quality, growing natural gas utilities at a historically attractive valuation. Today, we are pleased to be delivering safe, reliable and affordable energy to more than seven million customers across North America.

These acquisitions add to the strength of our asset base. Enbridge is fortunate to have nearly all elements of the energy infrastructure value chain: the largest crude oil pipeline system in North America; a flourishing gas transmission and midstream business; investments of nearly \$12 billion in renewables with the capacity to generate 6,612 megawatts of renewable energy (gross capacity); and an expanded gas utility business that is now the largest by volume in North America. Our long-term strategy is focused on growth across all these business areas. From our mix of assets to our footprint across North America and into Europe – we are balancing the needs of different customers and communities. Our energy diversity is a strength as we work toward being a first-choice energy company.

Dedication to safety

At Enbridge, we are committed to fostering a culture that deeply values and prioritizes delivering energy safely – for the public and our people. We continue to hold safety as a core value, and we are committed to being transparent about our operations as a company. We achieved a 23% reduction¹ in total recordable incident frequency among employees and contractors for the year, exceeding our goal of a 10% improvement over the previous three-year average. Despite these

improvements, we are deeply saddened by the loss of a contractor in 2024. This tragedy has deepened our resolve to do everything possible to prevent events like this in the future.

Continued focus on efficiency

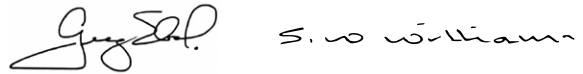
As we grow, we must also maintain our strong focus on efficiency and continue to reduce our GHG emissions intensity. We are investing in modernizing our systems and using innovative techniques to manage methane emissions from our operations. This includes mitigating methane releases during equipment maintenance and construction. We are also gaining a clearer picture of how and where methane emissions may occur by exploring options for data quality improvements in measurement and monitoring tools. We are proud to share we are making progress on this front – since our 2018 baseline we have reduced the GHG emissions intensity of our operations by 40%^{2,3} and we have reduced our absolute GHG emissions by 22%.⁴

We continue to explore ways to increase efficiency and reduce our emissions across our operations.

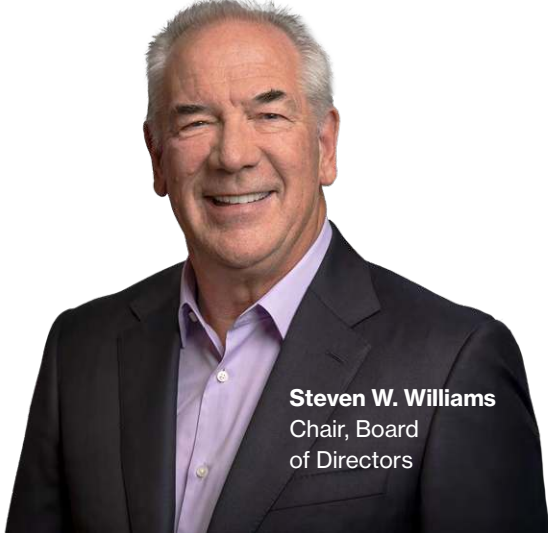
Tomorrow is on

Looking back on the year, we are honored to serve alongside our high-performing Enbridge team to deliver energy to millions of people in North America and increasingly beyond; and we remain focused on our vision to provide energy in a more planet-friendly way, everywhere people need it. Tomorrow is on at Enbridge.

Sincerely,



Gregory L. Ebel
President and Chief
Executive Officer



Steven W. Williams
Chair, Board
of Directors

¹ Excludes U.S. gas utilities employees and contractors.

² GHG emissions are from assets over which we have operational control (Scope 1 and Scope 2 emissions). Projected reductions of GHG emissions intensity and absolute emissions is relative to the 2018 baseline year.

³ This metric aggregates emissions and throughput for each business unit on the basis of tonnes of carbon dioxide equivalent per energy delivered in petajoules (PJ).

⁴ Absolute emissions.

About us

Enbridge Inc. (Enbridge), is a leading North American energy infrastructure company. As a diversified energy company, we are taking a practical approach to the energy transition¹ by providing the energy needed today while simultaneously advancing solutions for tomorrow. Enbridge is a publicly traded company, with common shares that trade on the Toronto Stock Exchange (TSX) and New York Stock Exchange (NYSE) under the symbol ENB. Enbridge is headquartered in Calgary, Alberta, Canada.

Our core businesses include: **Liquids Pipelines (LP)**, which consists of pipelines and terminals in Canada and the U.S. that transport various grades of crude oil and other liquid hydrocarbons to refining markets throughout North America and around the world; **Gas Transmission and Midstream (GTM)**, which consists of investments in natural gas pipelines, gathering and storage facilities in Canada and the U.S.; **Gas Distribution and Storage (GDS)**, which consists of natural gas utility operations that serve residential, commercial and industrial customers in Canada and the U.S.; and **Renewable Power Generation (RP)**, which consists primarily of investments in wind and solar assets in North America and Europe.

Who we are

At Enbridge, we are inspired by our purpose to fuel people's quality of life, our vision to provide energy in a planet-friendly way everywhere people need it and our mission to be the first choice for energy delivery in North America and beyond. We strive to be a first-choice employer. Our dedicated team of about 16,000 employees, primarily in Canada and the U.S., is passionate about safely and reliably delivering the energy the world needs.

How we work

Everyone at Enbridge is guided by a strong set of core values – Safety, Integrity, Inclusion, Respect and High Performance – that reflect what is truly important to us as a company. We live our values in support of our communities, the environment and each other. Our values drive our every decision, action and interaction and are key to our ongoing success. By acting in ways that reflect and support our values, we contribute to a positive culture that enables us to perform to our full potential.



This page reflects our operations and a map of our assets and joint ventures as of May 2025.

¹ Learn more about Enbridge's approach to the energy transition in our [2025 Strategic Plan](#).

Liquids Pipeline	Renewable Natural Gas
Natural Gas Transmission Pipeline	Solar Assets
Natural Gas Gathering Pipeline	Solar Asset (under construction)
Natural Gas Liquids Pipeline	Wind Assets
Crude Storage or Terminal	Geothermal Power
Gas Storage Facility	Gas Processing Plant
NGL Storage Facility	Gas Processing Hub
LNG Facility	Gas Distribution Service Territory
Crude export facility	

What we do

The energy we deliver heats homes, feeds families and helps to power the economy. Our crude oil, natural gas and renewable power businesses¹ meet the needs of today while advancing energy solutions for tomorrow.

~16,000
employees

\$53.5B
total operating revenues

\$219B
in assets



Liquids
Pipelines



Gas Transmission
and Midstream



Gas Distribution
and Storage



Renewable
Power

29,104 km
of pipelines (18,085 miles)

We transport about **30%** of the
crude oil produced in North America

We operate North America's longest crude oil and liquids transportation system.

Liquids Pipelines consists of pipelines and terminals in six Canadian provinces and territories and 21 U.S. states, safely and reliably delivering about 5.8 million barrels of crude oil and liquids every day.

30,500 km
of pipelines (18,952 miles)

We move **20%** of the natural
gas consumed in the U.S.

Our natural gas transmission system connects North America's most prolific supply basins to the continent's largest demand centers. Our network spans 31 states, four Canadian provinces and transports approximately 40% of natural gas produced offshore in the Gulf of Mexico.

We supply natural gas to every operating liquefied natural gas (LNG) facility on the U.S. Gulf Coast and are strategically positioned to serve LNG export projects in British Columbia.

178,002 km
of gas transmission, transportation,
and distribution mainlines (110,606 miles)

We significantly increased our Gas Distribution and Storage business in 2024 through the acquisition of three U.S. gas utilities. The business includes our rate-regulated natural gas utility operations, which serve seven million residential, commercial and industrial customers in Ontario, Quebec, Ohio, North Carolina, Utah, Wyoming and Idaho. It also includes the Wexpro Company (Wexpro), which develops and supplies a portion of natural gas supply to Enbridge Gas in Utah, Wyoming and Idaho.

Our distribution systems, which are supported by storage and compression assets, receive and connect suppliers of natural gas and renewable natural gas to customers across North America.

37
renewable facilities

3,482 MW
of net generation

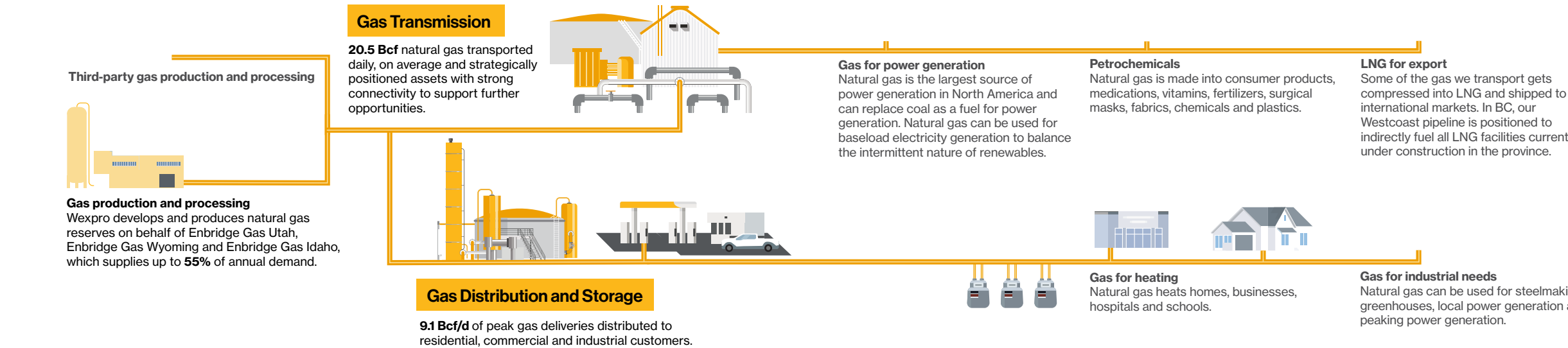
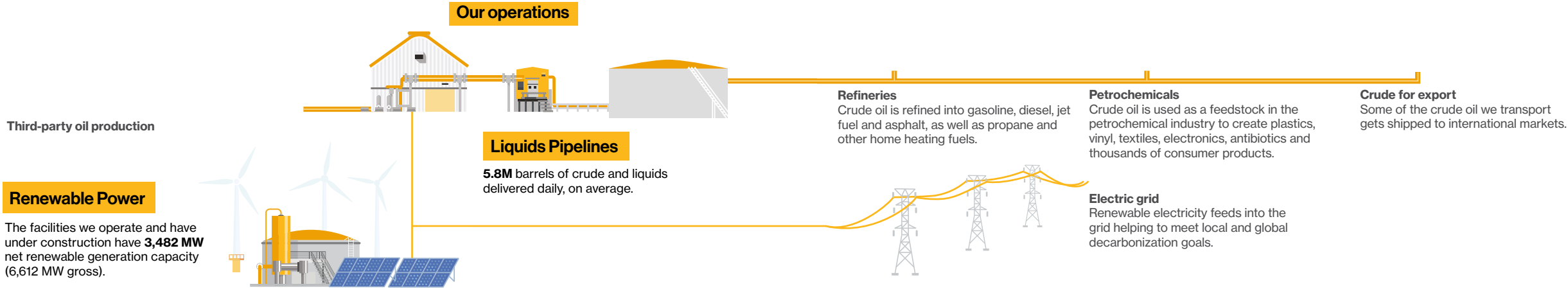
Renewable Power consists primarily of investments in wind and solar assets, as well as equity interests in geothermal power assets. In North America, assets are primarily located in the provinces of Alberta, Ontario and Québec, and in the states of Colorado, Texas, Indiana, Ohio and West Virginia. In Europe, we hold equity interests in operating offshore wind facilities in the coastal waters of the United Kingdom, France and Germany, as well as interests in several offshore wind projects under construction and active development in France and the United Kingdom.

¹ This page reflects our key operations as of May 2025 through our four core businesses. For more information about each of our four core businesses, see the [Annual Report](#).

Our energy infrastructure and value chain

Energy is the backbone of our economy and our society, and it's Enbridge's role to deliver it. We safely connect millions of people to the energy they rely on every day, fueling quality of life. We're investing in modern energy delivery infrastructure to help provide access to safe, reliable and affordable energy. Building on two decades of experience in renewable energy, we are advancing wind and solar power and emerging technologies including hydrogen, renewable natural gas and carbon capture and storage.¹

Upstream



¹ This page reflects our key operations as of May 2025 through our four core businesses. For more information about each of our four core businesses, see the [2024 Annual Report](#).

Our approach

“It’s our long-held view that growing energy demand fundamentals mean that all forms of energy are going to be needed for decades to come. Enbridge’s diversified business mix is ideally positioned to be able to meet this growing demand in all of those areas—oil and natural gas, lower-carbon opportunities and renewable power.”

Gregory L. Ebel,
President & Chief Executive Officer

Inside this section

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- 10 Our business strategy and sustainability approach
- 13 Stakeholder engagement
- 14 Sustainability topics

CSO and Sustainability Committee Chair Q&A

Q (Susan): Where do you see Enbridge making strides when it comes to addressing emissions from our operations? And what challenges remain ahead?

A (Pete): We believe natural gas will play a foundational role in the global energy mix for quite some time. Natural gas is a reliable and cost-effective substitute for more carbon-intensive fuels and, as an enabler for intermittent and renewable power, natural gas is helping to lower greenhouse gas emissions across North America and globally.

Natural gas is primarily methane – a greenhouse gas with potent global warming potential when released into the atmosphere. We continue efforts across our gas transmission and distribution businesses to avoid and address methane emissions. After all, we get paid to move natural gas, not to lose it. And by focusing our attention on the largest sources of methane emissions throughout our system, we’re seeing results. While we had reduced our methane emissions significantly leading up to 2024, the road ahead is not without its challenges. Integrating the U.S. gas utilities into our portfolio provides a new opportunity to leverage best management practices and find the most prudent and effective solutions to avoiding and reducing emissions across these new assets and operations. I have confidence our teams are up to the task.

Q (Pete): The Board continues to champion Enbridge’s reconciliation with Indigenous Peoples across Canada and the United States. When you look back on 2024, what stands out with respect to our journey?

Q (Susan): As shared in Enbridge’s recent update to its Indigenous Reconciliation Action Plan, the journey continues. When I reflect on this past year, there are several examples that give me a sense of pride and confidence in the path Enbridge is on. A few specific areas of progress from 2024 include:

- Enbridge announced plans to build a 200-megawatt wind energy project in Saskatchewan in partnership with six First Nations and Métis communities. In this Seven Stars Energy Project, Indigenous partners will have the opportunity, collectively, to acquire at least 30% equity ownership.
- Significant progress was made towards Indigenous procurement across Enbridge, with a spend of \$837 million at the end 2024, for a total of \$2.7 billion since 2012.
- Over the last two years, the Company provided more than \$41 million to Indigenous groups across North America to build community capacity, and support well-being and initiatives that honor Indigenous Peoples and cultures.
- This year’s Sustainability Report marks the third year of reporting against the commitments made in Enbridge’s inaugural Indigenous Reconciliation Action Plan. By the end of 2024, the Company had achieved 12 of the original 22 commitments, five of which were achieved and integrated into corporate

practices, and seven of which were achieved and are ongoing. To further advance truth and reconciliation, Enbridge also published an update to the Indigenous Reconciliation Plan, including setting three new commitments and acknowledging injustices Indigenous groups have historically faced, including the lack of inclusion in our collective historical activities and the impacts on cultures, languages and socio-economic well-being of Indigenous Peoples.

Q (Susan): With sentiment on ESG changing, how does Enbridge view the path forward for sustainability?

A (Pete): Many of our investors and stakeholders continue to express interest in how we’re managing non-financial risks (and opportunities) relevant to our business, and the surrounding governance frameworks. For more than two decades, we’ve provided an annual update on areas of focus across our business including our impact on the environment, the communities in

which we operate and our role in society. At Enbridge, we’re continuing to advance our strategic priorities, including our approach to sustainability. How well we perform as a steward of our environment; as a safe operator of essential energy infrastructure; as an employer of choice; and as a responsible corporate citizen, is inextricably linked to our ability to achieve our strategic priorities and adapt to a changing world.



Pete Sheffield
Chief Sustainability
Officer & Vice President
External Affairs

Susan M. Cunningham
Chair, Sustainability
Committee

Our business strategy and sustainability approach

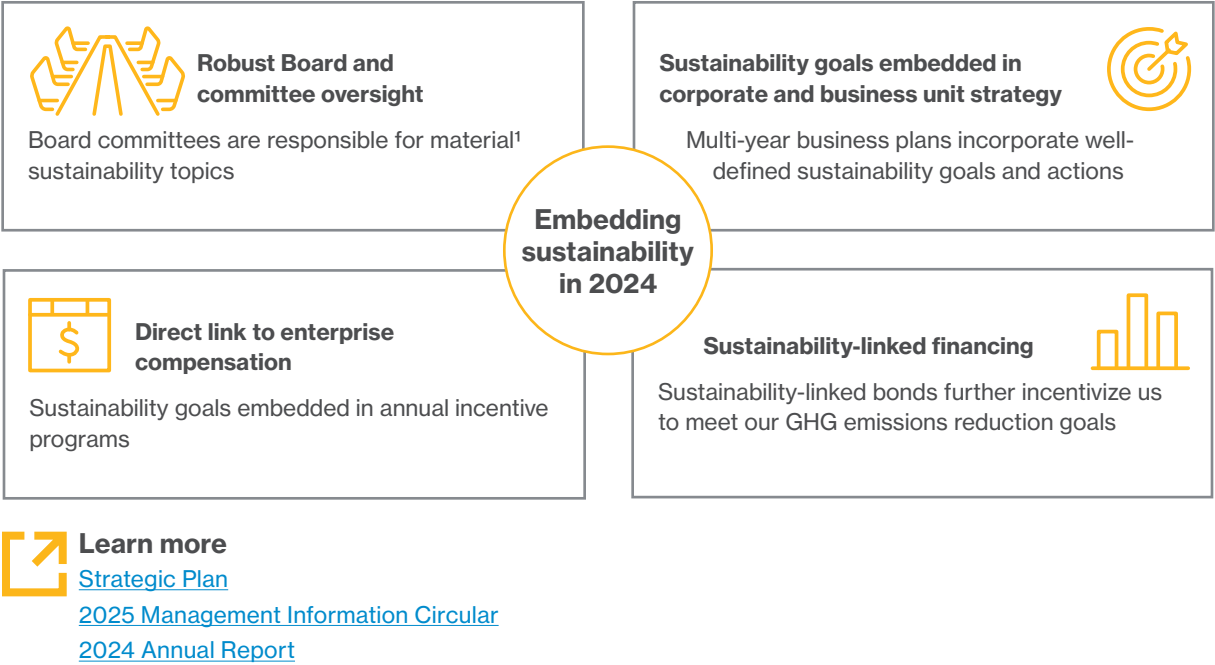
Every day, we strive to be the first-choice energy delivery company in North America and beyond—for customers, communities, investors, regulators, policymakers and employees. Over the last two decades, we have developed a diversified portfolio across both conventional and lower-carbon sources of energy. Learn more about our approach to the energy transition in our [Strategic Plan](#) and on page 14 of our [Annual Report](#).

We are focused on executing a strategy – underpinned by a deep understanding of energy supply and demand fundamentals – that will position our Company for long-term growth. We execute this strategy through disciplined capital allocation that is aligned with our outlook on energy markets and a continued focus on responsible business practices. Through our actions, we strive to embed sustainability into our business and play a meaningful role as energy markets evolve.

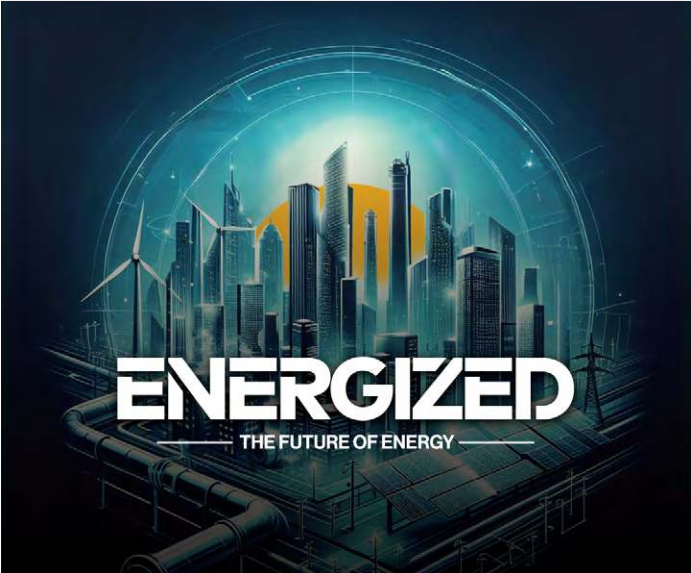
How we embed sustainability into our business

Managing our priority sustainability topics is integral to our strategy. How well we perform as a steward of our environment; as a safe operator of essential energy infrastructure; as an employer of choice; and as a responsible corporate citizen is inextricably linked to our ability to achieve our strategic priorities and adapt to a changing world. We have embedded sustainability considerations into our business through:

- Maintaining a robust governance structure with Board oversight tied to our priority sustainability topics.
- Continuing to drive progress towards the performance goals we established in 2020.
- Aligning annual incentive compensation with key sustainability metrics and embedding metrics into business strategies.
- Leveraging sustainability-linked financing to further incentivize us to meet our GHG emissions reduction goals. Enbridge is among the largest sustainability-linked bond (SLB) issuers in North America and Europe, having issued approximately \$8 billion in sustainability-linked financing to date, aligned with our interim emissions intensity reduction target and other sustainability goals.



¹ References to the terms “material,” “materiality assessments” and similar terms throughout this report are used specifically to identify the sustainability topics of greatest importance to our stakeholders and do not correspond to the concept of materiality under Canadian or U.S. securities laws.



Energized: The Future of Energy

In this podcast series in partnership with GZERO Media, Enbridge CEO Greg Ebel delves into the biggest ideas surrounding the current energy transition and its implications for geopolitics, the economy and our bottom line.

Hosted by JJ Ramberg, each episode features Greg Ebel alongside some of the industry’s leading experts, including Pulitzer Prize-winning author Daniel Yergin, former Canadian Member of Parliament Lisa Raitt, former Ohio Congressman Tim Ryan, President of Athabasca Investments Inc. Justin Bourque, Mark Podlasly, Chief Sustainability Officer of First Nations Major Project Coalition and Arjun Murti, partner at Veriten and founder of the energy transition newsletter Super-Spiked.



Listen on [GZERO Media](#), Apple, Spotify, or wherever you get your podcasts.

Enbridge’s approach to the energy evolution

One of the most important aspects in maintaining the long-term viability of our business is how well we navigate the energy transition, or as we often refer to it, the energy evolution. We believe diversification and innovation will play a significant role in the evolution to a lower-carbon and energy secure future. Our approach includes lowering the emissions intensity of our operations; supporting the switch from higher emitting energy sources to lower-carbon options for our customers; and participating in the development and construction of lower-carbon energy infrastructure.

We work closely with our customers and stakeholders to stay attuned to the pace of the energy evolution, which informs our operational and capital deployment decisions and helps us uncover opportunities to continue to diversify our business. Additionally, potential new investments are evaluated to assess their alignment with our GHG emissions reduction goals. While focusing on servicing North American needs first and foremost, we are adopting a global perspective, recognizing that different jurisdictions have unique energy needs and infrastructure requirements. Our global lens also considers broader economic factors, including geopolitical conflicts, market dynamics and climate considerations associated with the energy evolution.

Energy systems around the world are being reshaped as industry participants, regulators and consumers seek to balance the need for secure and reliable energy with efforts to reduce global GHG emissions. As energy systems evolve, our goal is to continue to deliver secure and affordable energy and to maintain a disciplined and deliberate approach to strategic and financial planning. At Enbridge, we are guided by the following beliefs:

The world will need more energy

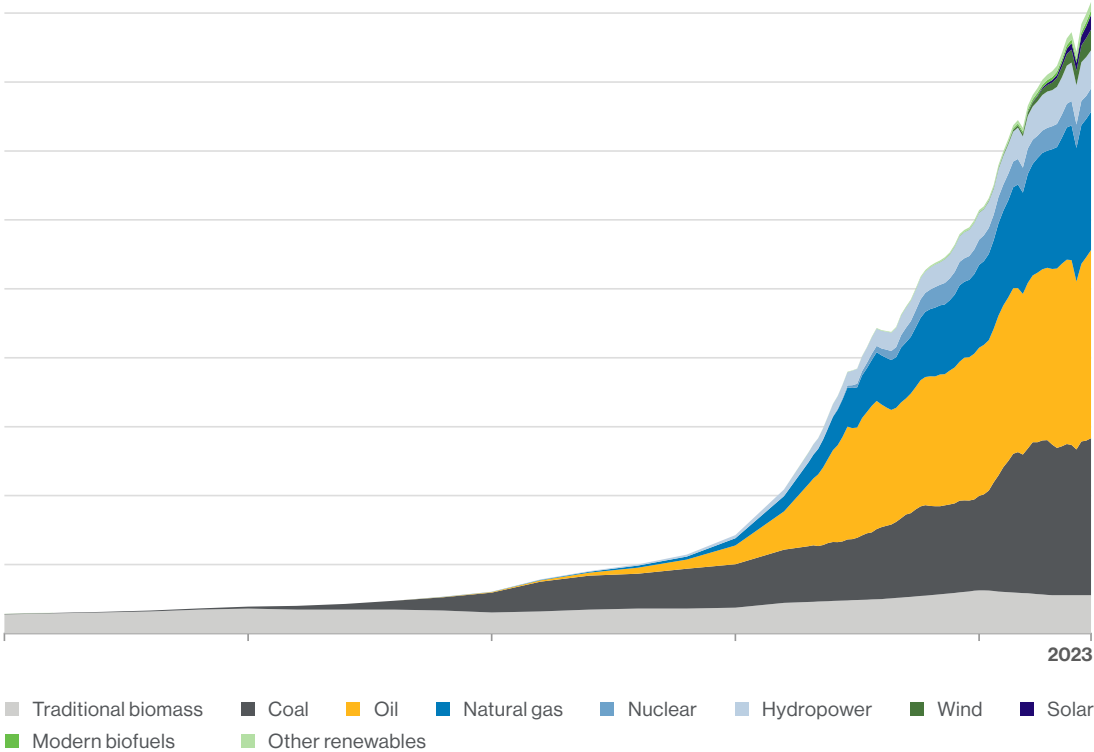
In a world where energy demand continues to increase alongside global population growth and economic expansion, availability, affordability and resilience have become crucial elements of our approach to delivering energy. There has been a steep increase in energy consumption over the last decades. The strong growth in energy demand within developing economies is set against the backdrop of a global population expected to reach 9.7 billion by 2050,¹ underscoring the continuous evolution and increasing complexity of global energy needs. The rapid growth of Artificial Intelligence (AI) and data centers is expected to further increase energy consumption, underscoring the need for a reliable and efficient energy system. We aim to provide continued access to the energy people need today, while investing in the new sources of energy that will be required tomorrow.

A variety of energy sources will be needed in the future

Companies and countries are setting targets in support of a lower-carbon future, which is changing energy supply and demand dynamics. Throughout history, the integration of new energy sources into the existing mix has been the predominant trend. Most global energy market forecasts, including the International Energy Agency (IEA), predict that an achievable path to net zero would require a mix of diverse energy sources, an “all of the above solution” that includes oil and gas.² This diverse approach comes naturally to Enbridge. With our roots in oil pipelines, we are now the largest gas utility in North America and have invested more than \$11.7 billion in renewable power assets since 2002. We believe that diversity of fuel sources supports energy security, reliability and affordability. Energy sourced from multiple jurisdictions can mitigate energy security risks resulting from geopolitical events, as we have seen with the ongoing war in Ukraine. Energy sources that perform better during the summer, like solar, are balanced by others that perform better in the winter, like wind. The intermittent nature of renewables can be balanced by baseload options like natural gas-fired generation.

Global primary energy consumption by source

Primary energy is based on the substitution method and measured in terawatt-hours (TWh).



¹ <https://www.un.org/en/desa/world-population-projected-reach-98-billion-2050-and-112-billion-2100>

² <https://www.iea.org/reports/world-energy-outlook-2024>

Data source: Energy Institute Statistical Review of World Energy (2024); Smil (2017). Learn more about this data ourworldindata.org.

Enbridge views natural gas as critical for the energy transition

Natural gas is a highly reliable energy source relative to other sources of energy, and we expect it will remain critical in the energy evolution.^{1,2} Demand for North American natural gas is expected to grow by more than 16 Bcf/d by 2035.³ In addition to supporting residential and commercial customers, natural gas plays a key role in industry and manufacturing. We continue to invest in natural gas and, with the acquisition of a trio of U.S. natural gas utilities, Enbridge is today delivering natural gas to seven million customers across North America. Below are five reasons why we continue to invest in natural gas infrastructure and believe natural gas will continue to play a key role in the energy evolution:

				
North American natural gas advantage	Lower emissions than coal	Available storage	Reliable distribution	Flexible to export as LNG
North America has abundant natural gas resources. Canada and the U.S. have enough natural gas to meet domestic needs for more than 200 years. ⁴ These abundant reserves, coupled with relatively high environmental standards, provide the opportunity to leverage these resources to support increased standards of living at home and abroad.	Replacing coal with natural gas provides an immediate and significant reduction in GHG emissions for energy-intensive industrial processes that are challenging to electrify, like mining, steel and cement manufacturing. The advancement of carbon capture projects and technologies has the potential to enable additional emissions reductions. Read more on page 26.	Natural gas has vast and readily available storage, helping to balance power grids and the variability of renewable energy sources like solar and wind. It provides flexibility in energy systems, enabling power plants to quickly adjust to changing demands.	The natural gas distribution system is reliable and resilient, as it is not dependent on electricity for delivery. This increases the reliability of energy that people and businesses rely upon, including during extreme weather events.	Natural gas can be transported across the world in the form of LNG. Exporting LNG supports countries seeking access to reliable and affordable energy. Canadian LNG exports leverage stable, long-lived natural gas resources, with relatively shorter transit times to Asia.
What is Enbridge doing to capitalize on this?				
Our assets connect abundant resources with larger population centers, moving the energy where it is needed.	We reliably connect electric utilities and power generators to the natural gas they need and continue to invest in new technologies such as carbon capture that can further support the decarbonization of hard-to-abate sectors. Read more on page 25.	Our storage footprint provides customers with exceptional access to reliable energy and adds significant value to our portfolio as we continue serving growing demand driven by LNG exports and power generation. Enbridge operations feature nearly 350 Bcf of net working storage, located primarily at the Dawn Hub in southwestern Ontario. We have 77 Bcf of underground storage at Aitken Creek in B.C., and about 105 Bcf of net working storage in the U.S. Gulf Coast.	Enbridge invests in developing and maintaining its own vast distribution network of more than 170,000 km. Our asset integrity program and innovative technology supports the reliability of that network. Read more on page 31.	In the U.S. Gulf Coast, Enbridge is connected to 100% of the operating LNG export capacity. In Canada, we have a 30% ownership stake in the Woodfibre LNG project currently under construction in B.C. Additionally, our Westcoast pipeline is positioned to indirectly fuel all LNG facilities currently under construction in B.C. Read more on page 26.

¹ <https://www.spglobal.com/en/research-insights/special-reports/look-forward/the-role-of-gas-in-the-energy-transition>

² <https://www.iea.org/reports/the-role-of-gas-in-todays-energy-transitions>

³ <https://www.spglobal.com/commodityinsights/en/commodities/natural-gas>

⁴ <https://www.cga.ca/natural-gas-statistics/natural-gas-facts/>

Stakeholder engagement

Consistent and meaningful engagement with our stakeholders is important for demonstrating transparency, facilitating open and informed dialogue and sharing our story. We engage with governments, rights holders such as Indigenous groups and landowners, and communities living near our projects and operations in Canada and the U.S. Sections of this report provide further details on our engagement activities and select 2024 examples are listed below.

Indigenous communities



Ongoing engagement includes:

- Meetings and presentations with leadership and their staff
- Facility tours, open houses and community meetings
- Investments in community priorities through our corporate citizenship program
- Site visits and participation in environmental assessment work
- Development of Traditional Land Use or cultural surveys
- Participation in cultural ceremonies and community events
- Participation in emergency response exercises and contributing to community emergency response readiness
- Participation in workforce trainings, economic opportunities, procurement and employment opportunities
- Letters, fact sheets, newsletters and via social media

Select 2024 examples:

- Continued consultation and engagement on numerous projects and operational activities across North America
- Engaged with the Indigenous Advisory Group to add Indigenous perspective and advice to Enbridge decision-making
- Garnered input and review of the newly refreshed Indigenous Reconciliation Action Plan
- Hosted numerous facility tours, including a tour of the Cushing terminal which brought together Tribal leaders from across the U.S. Enbridge LP system
- Read more about our 2024 activities on page 51

Employees and contractors



Ongoing engagement includes:

- Supervisory communications
 - Town halls, employee forums, webcasts and podcasts
 - Employee bulletins and newsletters
 - Employee meetings and surveys
 - Intranet and internal social media channel
 - Employee resource groups
 - Safety toolbox talks, training
 - Values moments
 - Stand Up for Safety sessions
 - Career development plans
- ### Select 2024 examples:
- All company employee meeting
 - Employee volunteering, including through Enbridge Fueling Futures
 - Enterprise-wide Employee Resource Group week which brought together leaders and employees to promote our core value of Inclusion
 - Read more about our 2024 activities on page 46

Customers and suppliers



Ongoing engagement includes:

- Selection and contracting processes
 - Customer surveys
 - Face-to-face meetings
 - Supplier relationship management meetings
 - Annual customer meetings
 - On-site visits
- ### Select 2024 examples:
- Periodic meetings with each of our key suppliers
 - Continued implementation and engagement through third-party assessment platform
 - Held Indigenous supplier engagement sessions and Tribal Business summits

Shareholders



Ongoing engagement includes:

- Annual meeting of shareholders
 - Investor conferences and non-deal roadshows
 - Canadian and U.S. regulatory filings
 - Analyst meetings and conference calls
 - Ongoing investor engagement and presentations
 - Quarterly earnings calls and business updates
- ### Select 2024 examples:
- Direct outreach to retail and institutional investors
 - Conferences and presentations
 - Financial-related climate disclosures
 - Investor asset tours
 - Annual meeting of shareholders and quarterly earnings webcasts

Landowners and local communities



Ongoing engagement includes:

- Town halls and open houses
 - Landowner and landowner association meetings
 - Community meetings and events
 - Corporate citizenship programs
 - Facility tours
 - Grievance process
 - Contributing to local emergency response readiness
 - Letters, factsheets and newsletters
 - Local government delegations and presentations
- ### Select 2024 examples:
- Engage with communities through open houses, town halls, information sessions and community events
 - In-person engagement through our information centers in Michigan, Texas and Wisconsin
 - Presentations to local and state public officials
 - Read more about our 2024 activities on page 56

Industry groups



Ongoing engagement includes:

- Committee participation
 - Board positions on relevant trade groups
 - Advocacy activities
 - Conference and speaking opportunities
 - Support industry groups with data gathering and analytics to inform public policy
- ### Select 2024 examples:
- Ongoing advocacy work includes the need for permitting reform, incentives, policies required to invest in the energy evolution
 - Participation in industry and issue conferences and gatherings, including Gastech, CERAWeek, First Nations Major Projects Coalition Conference and others
 - Read more about our 2024 activities on page 71

Policymakers and regulators



Ongoing engagement includes:

- Engagement with all levels of government and regulators
 - Facility and asset tours
 - Conferences and panels
 - Multi-stakeholder initiatives
 - Face-to-face meetings
 - Issue papers and research contributions
 - Advocacy through meetings and submissions
- ### Select 2024 examples:
- Major projects engagement
 - Ensuring policies drive toward practical solutions to promote reliability, affordability and lower-carbon energy systems
 - Advocated our position on the role of natural gas, including LNG
 - Read more about our 2024 activities on page 71

Sustainability topics

To gain insight into the issues of greatest importance to our business, our shareholders and our stakeholders, we carried out a double materiality¹ assessment early in 2024. We assessed sustainability topics through a dual lens: the impact that these topics have on the Company and the Company’s impact on the economy, people and the environment. The Sustainability Committee of the Board reviewed the results of this assessment. We conduct a formal materiality assessment every two years, review our material topics annually, and continually monitor our operating environment for emerging issues that may affect our business, including our sustainability reporting practices.

Our prioritization process

1 Engagement

We conducted a survey and interview process that engaged more than 150 internal and external stakeholders to rate the importance of a list of 33 relevant topics. These topics were extracted from relevant sustainability frameworks, emerging disclosure standards and reviewed peer company disclosure.

Internal stakeholders were selected to represent our various business units, geographies and workforce levels. External stakeholders that participated represented various groups, including customers, investors, lenders, Indigenous groups, community partners, industry associations, labor unions, insurance providers and suppliers.

2 Prioritization and validation

We analyzed the survey and interview results, alongside further benchmarking, and prioritized each topic according to its level of significance to our stakeholders and its overall impact on our ability to deliver on our strategy. We also incorporated insights from our Corporate Risk Assessment and from secondary sources to enhance our understanding of risks and opportunities from a financial materiality lens.

3 Results

Through this assessment, we identified nine priority topics and six significant topics to inform our sustainability reporting and strategy.

Priority topics are identified by our stakeholders to be critically important for our business to be successful, require a strategic focus and commitment to high performance across our business, and are subject to focused reporting. **Significant topics** are areas that are also important to the Company and our stakeholders, are managed and monitored internally, and are addressed throughout the report, although not to the same extent as the priority topics. Supplementary reporting on additional topics of interest to stakeholders can also be found on our website.

Priority topics

- Asset integrity, reliability and resilience
- Climate change and energy transition
- Community engagement
- Cybersecurity
- Emergency preparedness and response
- Energy access, affordability and reliability
- Enterprise risk management
- Employee and contractor safety
- Indigenous engagement and inclusion

Significant topics

- Environmental management
- Human rights
- People and culture
- Regulatory compliance
- Supply chain management
- Workforce representation

¹ References to the terms “materiality,” “materiality assessments” and similar terms throughout this report are used specifically to identify the sustainability topics of greatest importance to our stakeholders and do not correspond to the concept of materiality under Canadian or U.S. securities laws.

Environment

“ We need an energy evolution that addresses climate concerns while not compromising the world’s need for energy, now and in the future. We believe our approach does exactly that, addressing the dual challenge society faces—reducing emissions while also positioning us to continue to deliver the affordable energy society relies on for economic and social well-being. ”

Matthew Akman,
Executive Vice President, Corporate Strategy
and President, Power

Inside this section

- 16 Climate change and the energy evolution
- 30 Operational management
- 35 Environmental management

Climate change and the energy evolution

Addressing climate change is one of the most pressing challenges faced by businesses and society. The complexity of this challenge requires multifaceted solutions that balance the need to reduce GHG emissions while at the same time meeting the increasing global demand for energy. We recognize that energy systems are evolving in response to this dual challenge. As a company with diversified energy infrastructure, we are well positioned to play a significant role in this energy evolution.

Emissions reduction

Our goals for reducing our GHG emissions were set in 2020, making us North America's largest energy infrastructure company with a goal of operating on a net-zero basis (Scope 1 and 2^{1,2}) by 2050.^{3,4} We are also committed to reducing the intensity of GHG emissions from our operations by 35% by 2030 from 2018,^{2,4} which we achieved in 2023 and maintained our progress in 2024. In order to meet our goals, we are focused on five key pathways that contribute differently toward our 2030 and 2050 goals. For our 2050 target, carbon capture, carbon removal or other offset solutions fit our business strategy due to their investment profile. Future procurement of carbon capture, carbon removal or other offset solutions will depend on the maturity of these solutions and how nature-based solutions are perceived in the voluntary carbon market. While offsets remain a lever to reduce residual emissions to our net-zero pathway, our focus until 2030 is on understanding the limits and costs of emissions reduction pathways such as modernization, innovation and lower-carbon investments.

Each of our business units is engaged in activities to meet our GHG emissions reduction goals. Our LP, GDS and GTM businesses are working to enhance the energy efficiency of their infrastructure, procure lower-carbon power for their operations and adopt innovative technologies to minimize their GHG emissions. Our Renewable Power business continues to increase

its generation capacity, build partnerships, invest in new technologies, acquire promising and innovating companies and advocate for policy change (read more on page 73). These activities help advance the energy evolution while reinforcing our status as a responsible and differentiated energy provider in North America and internationally.

Collaborating with industry

We support approaches to GHG emissions reductions that are effective, practical and informed by industry best practice and science. To support our plans, we became a member of the International Petroleum Industry Environmental Conservation Association (IPIECA), making us the first midstream company to join this global oil and gas association dedicated to advancing environmental and social performance. Prior to joining as a member, we engaged with IPIECA on selected sustainability topics through our partnership with the American Petroleum Institute (API). Through our new IPIECA membership, we are actively exploring collaboration opportunities and have joined multiple working groups and task forces to address important industry challenges. These shared challenges include tracking and reporting of relevant Scope 3 emissions, energy transition pathways, methane performance, biodiversity and supply chain sustainability. By participating in these initiatives, we aim to expand collaboration with IPIECA and its members to improve the environmental and social performance of our industry.

Illustrative reduction pathways⁵

Reduce emissions intensity from our operations by **35%** by 2030 from 2018 base year^{3,4}



70% Procurement of lower-carbon power

+

20% Modernization and innovation



5% Self-powering our assets



5% Investing in renewables and lower-carbon infrastructure



Learn more

Our [Climate-related Disclosures](#) (TCFD) section provides insight into how we view the transition to a lower-emissions economy and our role within that transition. Our disclosure includes physical and transition risks, and associated mitigation and management measures for each business unit.

Net-zero
emissions from
our operations
by 2050^{2,3}



40% Investing in renewables and lower-carbon infrastructure

+

15% Modernization and innovation



20% Procurement of lower-carbon power



5% Self-powering our assets



20% Offsets and carbon credits

¹ Our target covers 100% of our Scope 1 and Scope 2 emissions.

² Absolute emissions.

³ GHG emissions are from assets over which we have operational control (Scope 1 and Scope 2 emissions). Projected reductions of GHG emissions intensity and absolute emissions is relative to the 2018 baseline year.

⁴ This metric aggregates emissions and throughput for each business unit on the basis of tonnes of carbon dioxide equivalent per energy delivered in petajoules (PJ).

⁵ The percentages outlined in our reduction pathways are forecast-driven using estimated emissions (tCO₂e) and volume (PJ) information, presented as illustrative pathways to guide planning and strategy development.

Emissions reduction efforts

We seek emissions reduction opportunities in each area of our operations. For our natural gas system, the primary emissions sources are natural gas combustion emissions from our gas compressors and methane emissions associated with operating our natural gas pipeline network. To manage these emissions, we focus on improving our methane performance and modernizing our equipment. For our liquids pipelines, the majority of emissions come from electricity consumption. We are focused on improving power consumption efficiency and increasing the procurement of lower-carbon power. For our gas utilities, Enbridge also tracks and reports our utility customers' natural gas combustion emissions as part of our Scope 3 emissions. We collaborate with our customers to help them reduce their emissions through various initiatives including demand side management and programs that aim to provide access to lower-carbon intensity fuels. Over the next few pages, we provide further details on how we are working to reduce our emissions.

1 Focus on methane emissions

While natural gas has lower emissions during combustion than other conventional fossil fuels,¹ there are methane emissions associated with moving natural gas through transmission and distribution systems. Methane is the primary component in natural gas and has a higher global warming potential than carbon dioxide – emitting one tonne of methane is equivalent to emitting 28 tonnes of carbon dioxide² in a 100-year timeframe. This is why we're working to reduce methane emissions from our transmission and distribution networks. Methane comprised approximately 30% of our total Scope 1 emissions in 2024. Although we reduced our methane emissions by 40% between 2018 and 2023, our 2024 methane emissions increased by 32% from 2018 baseline primarily due to the recent acquisitions of three U.S. natural gas utilities.

¹ <https://www.eia.gov/energyexplained/natural-gas/natural-gas-and-the-environment.php>

² https://ghgprotocol.org/sites/default/files/Global-Warming-Potential-Values%20%28Feb%2016%202016%2029_1.pdf

Enhancing methane measurement

A crucial component in methane management is improving data quality because high-quality data is essential for emissions analysis, risk identification and opportunity exploration. We are evolving our approach to methane reduction and management in response to newly available technologies and equipment, and in response to regulatory changes. Read more about these regulations on page 20.

The Oil & Gas Methane Partnership 2.0 (OGMP 2.0) is a voluntary initiative that promotes a shift toward measurement-based methane reporting. The OGMP 2.0 framework categorizes different levels of maturity for the accurate measurement of methane emissions: venting, fugitive emissions and the unburned portion of flared gases or stationary combustion equipment. We have evaluated our methane reporting approach according to the OGMP 2.0 maturity levels, ranging from 1 to 5, in each of the four categories (results on the table on the right). Our methane emissions sources are reported at level 3 or 4, which indicate source-level reporting. We use a combination of emissions factors, engineering estimates based on operational data, and direct measurements to report our methane emissions.

We conducted a methane inventory assessment in 2024, which offered valuable insights into areas for improving reporting accuracy and identifying potential reduction opportunities across our transmission and distribution network, including:

- GDS evaluated the specifications and suitability of various commercially available fugitive emissions measurement technologies. GDS is assessing the feasibility of deploying pilot projects to field-test direct measurement technologies.

- GTM piloted a number of new methane leak detection and measurement technologies, including using aerial surveys and hand-held devices, such as optical gas imaging cameras coupled with tunable diode laser absorption spectroscopy.
- We tested the use of satellite technology for detecting methane from our GTM and GDS operations. This test helped us better understand the opportunities and limitations of satellite data for midstream and downstream methane emissions monitoring and quantification.

We have carefully reviewed the OGMP 2.0 framework, including the extensive implementation costs and reporting requirements, and as a diversified midstream company, we find it challenging to join at this time. We believe our focus should be on demonstrable methane emissions abatement without the restrictions of the OGMP 2.0 framework.

Methane source breakdown rated against OGMP 2.0 five-level quantification methods*

Methane emission sources	Method of measurement	Enbridge self-assessed OGMP maturity level 1 to 5 (best)
Venting: Planned releases of gas to the atmosphere as a result of process design or maintenance activity	Source-specific emissions factors or measured	
	Engineering-estimated emissions at source level	
Fugitive emissions: Unintentional releases to the atmosphere resulting from leaking equipment or tanks (methane leaks)	Source-specific emissions factors or measured	
	Engineering-estimated emissions at source level	
Flaring: The unburned fraction	Source-specific emissions factors	
Stationary combustion: The unburned fraction	Source-specific measurement using field data and emissions factors	

* Excludes U.S. Utility assets

Methane reduction initiatives

We seek a balanced approach between enhanced measurement and reducing methane emissions from our operations. We believe that reducing the release of methane is a critical part of meeting energy needs while achieving decarbonization targets. Through ongoing investment, we continue to advance our work to mitigate the methane emissions across our natural gas value chain in the following ways:

Reducing venting during pipeline repairs: During pipeline maintenance, it's necessary to release gas from the pipeline to maintain safe working conditions. One common approach is to release the gas into the atmosphere – this process is referred to as a blowdown and results in methane emissions. To minimize methane emissions, we are using blowdown recovery compressors to capture a portion of the gas instead of venting it into the air, even where no regulatory mandate exists. These recovery units use specialized equipment to draw the gas from the pipeline and re-inject it into another segment of the pipeline. As part of GTM's maintenance process, we consider the use of portable recompression units during pipeline blowdown events by evaluating blowdown volume, time and customers' constraints, regulation requirements and equipment availability. Another option we consider to reduce the amount of gas vented is to lower the pipeline pressure prior to a venting event. In Ontario, GDS has four permanent and two portable blowdown recovery units for this purpose. We estimate these efforts reduced our emissions by approximately 55,000 tonnes of carbon dioxide equivalent (CO₂e) in 2024.

Choosing alternative repair methods: In-line inspection or integrity digs routinely identify pipe segments that may require replacement or repair. Replacing pipe segments often requires us to vent the gas prior to putting the pipeline back into service, and therefore results in methane release into the atmosphere. Depending on the pipeline defect type, sleeves are an alternative method that strengthen the outside of the pipe without needing to replace it and, therefore, release any gas. We are now using steel pressure containment and composite sleeves. Steel sleeves are made of two halves that are placed on either side of the pipe and secured with heat (once the sleeve cools, it contracts). The Clock Spring® sleeve is a composite sleeve made up of pretensioned fiberglass designed for high-pressure transmission pipelines. The use of these sleeves is a repair method which complies with U.S. Pipeline and Hazardous Materials Safety Administration (PHMSA) and the Canada Energy Regulator (CER) requirements. We estimate these efforts reduced our emissions by approximately 179,000 tonnes of CO₂e in 2024.

Upgrading technology: We often look for technology upgrades that have associated efficiency improvements or that will enable emissions reductions. GTM identified compressor units that were eligible for the installation of new software in 2024. The software upgrade eliminates gas releases (and its associated methane emissions) during routine startup and shutdown of the compressors. All the units that were eligible for the upgrade were successfully installed.

Reducing other small sources of venting: Some pipeline instrumentation equipment (such as gas analyzers and odorant pumps¹) is designed to vent a small amount of methane into the atmosphere. We are currently piloting the use of TracErase, a catalytic combustion device that oxidizes the vented gas and converts methane into carbon dioxide with lower global warming potential. We have installed this device in one location and plan to add five more in 2025. Although the impact of this technology on our methane emissions is small, it supports our goal of reducing methane emissions and aligns with proposed requirements in the Canadian methane regulations.

Leak detection and repair: Maintaining the integrity of our large infrastructure network is a top priority. Each of our business units has leak detection and repair protocols specific to its systems and equipment to identify and limit unplanned methane emissions. We use various technologies to detect methane leaks, including optical gas imaging cameras, handheld “sniffer” gas detectors, and audio, visual and olfactory inspections.

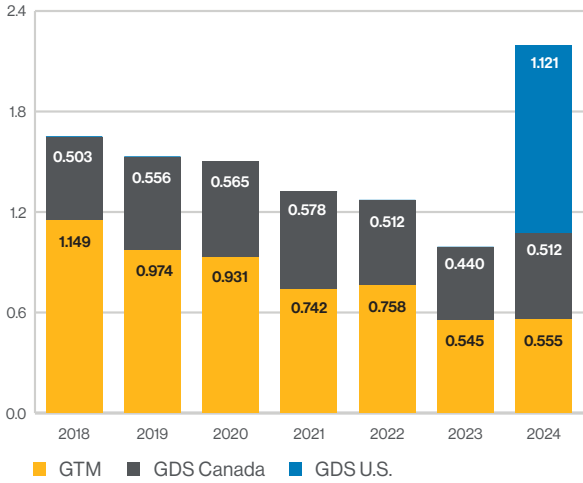
2024 methane breakdown by business units and sources (tCO₂e)

Methane source	GTM	GDS
Vented	483,145	278,143
Fugitive	62,070	1,302,860
Stationary combustion	8,362	48,537
Flared	1,519	3,461
Total	555,096	1,633,002

The majority of methane emissions for GTM are related to venting and the majority of methane emissions for GDS are related to fugitive emissions. This data includes our newly acquired utility assets.

Methane emissions

(million tonnes CO₂e)



New utilities impact to methane emissions

Our 2024 methane emissions increased significantly, primarily due to the acquisition of three U.S. gas utilities. These newly acquired assets increased the volume of fugitive-related methane emissions.

As we integrate these operations, we are working closely with our U.S. gas utilities teams to assess current practices, identify opportunities to reduce emissions, and develop a path forward. We are committed to advancing methane reductions across our expanded footprint and will share further details on our strategy and progress in our next report.

¹ Gas analyzers vent gas while drawing a sample for analysis. Odorant pumps operate like a pneumatic device – when the valve turns, a small amount of gas is released.

Key sources of methane emissions and what we are doing to reduce them

Most of our methane emissions are associated with operating our natural gas transmission and distribution infrastructure or from equipment maintenance activities necessary for the safety of our natural gas infrastructure. A small portion of our methane emissions are unplanned, arising from relatively rare occurrences such as emergency shutdowns or third-party damage to our pipelines. We are working to reduce methane emissions wherever and however they occur. Below is an overview of key methane sources across our operations and what we are doing to reduce them.

Upstream activities

Upstream refers to the activities involved in the production of natural gas. After our recent acquisition of three U.S. natural gas utilities, we began operating gas production assets in Utah, Wyoming and Colorado.

Our upstream methane emissions were 2,803 tonnes in 2024. The upstream emissions contribute a minor portion of our overall methane emissions. Approximately 60% of these emissions come from intermittent bleed pneumatic devices, which control equipment like valves and pumps using pressurized natural gas during normal operation, contributing to methane emissions.

Midstream activities

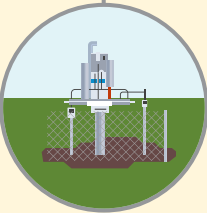
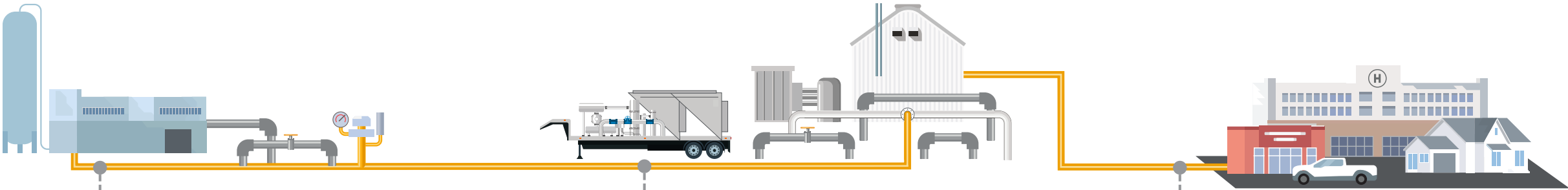
Midstream activities involve collecting, processing, transporting and storing natural gas.

Our midstream methane emissions were 28,024 tonnes in 2024. A large portion of these emissions are related to blowdown procedures. A blowdown is conducted as part of standard operating procedure to safely release gas from pipelines or equipment during maintenance activities or system shutdowns.

Downstream activities

Downstream activities include distributing and selling natural gas to homes, businesses and industries.

Our downstream methane emissions were 47,326 tonnes in 2024. Fugitive emissions account for approximately 93% of these emissions, and refer to the unintentional release of natural gas, for example, from leaks or third-party damage to our pipelines.



Reduction actions

We completed the replacement of all high-bleed pneumatic devices in our GDS U.S. operations in 2023, effectively eliminating one of the largest methane sources. We plan for all new wells to install air controllers, eliminating the need for pneumatic devices and thereby reducing methane emissions.



Reduction actions

We've significantly reduced the emissions associated with blowdowns by using new software that prevents gas release during routine startup and shutdown of our compressor units. Read more on page 18.



Reduction actions

To maintain customer safety and reduce emissions, we execute a leak survey program across our distribution system to identify and repair leaks. We are continuing to explore options for measuring and mitigating emissions. See page 18 for details.

Voluntary methane initiatives

Enbridge is an active member of the ONE Future coalition, composed of about 50 natural gas companies representing more than 39% of the U.S. natural gas value chain. Formed in 2016, this coalition aims to reduce methane emissions intensity to less than 1%. The ONE Future coalition defines methane intensity as the ratio of methane emissions to the amount of natural gas produced and delivered across the natural gas value chain. We report under the “transmission and storage” segment, which includes an additive methane emissions intensity target of 0.3%.¹ Since joining in 2019, Enbridge has strived to consistently meet ONE Future’s emissions targets. In 2023, our GTM U.S. methane intensity was 0.097%.² We will begin reporting our new U.S. gas utilities methane performance through ONE Future, under the “distribution,” “production,” “transmission and storage” and “gathering and boosting” segments, in our 2025 Sustainability Report.

A rapidly changing methane regulatory landscape in Canada and the U.S., and the technology limitations in measuring small leaks across a vast distribution network, contribute to the challenge of setting a methane target. Although we do not have a specific methane target, our methane emissions reduction plans are integrated into our net-zero target and our interim emissions intensity target. We are actively refining and updating our methane management plans to reflect evolving opportunities and the integration of the newly acquired U.S. gas utilities assets.

Enbridge is also a member of The Environmental Partnership (TEP), a group of approximately 100 U.S.-based oil and natural gas companies representing more than 70% of the U.S. onshore industry. TEP focuses on identifying and adopting solutions to enhance environmental performance, including reducing flaring and implementing practices to reduce pipeline blowdowns. We participate in TEP’s Pipeline Blowdown Program and Leak Detection Program.

Methane regulation impacts

In 2024, we established cross-functional working groups to assess the impacts of changing methane regulations including new, proposed, and amended requirements. These teams are developing a comprehensive roadmap to meet emerging compliance standards. Additionally, we actively advocate our positions and share input through industry groups and direct engagement with regulators. More information on our advocacy efforts can be found on page 73. Meanwhile, we continue to closely monitor regulatory developments and prepare to refine our strategies as needed.

2 Other modernization efforts

We continue to invest in the modernization of our existing infrastructure, driven by our commitment to maintaining the safe operations of our pipeline systems and meeting regulatory requirements. These efforts also align with our approach to improving our operational efficiency and identifying opportunities to reduce our GHG emissions. Examples of our GHG reduction efforts include:



Testing EV trucks in challenging terrains

Our Greenwich Wind Farm in Ontario, Canada – operated by our Renewable Power business unit – is participating in a pilot project to test the performance of the fully electric Ford F-150 Lightning. As part of a trial project, we are evaluating whether this truck can be used for operations and maintenance and perform well in cold and rugged conditions.

The electric vehicle (EV) trial aligns with our efforts to meet more of our energy needs with lower-emissions electricity. EVs could also help the wind farm reduce costs associated with fuel and maintenance.

This initiative includes installing onsite EV charging stations powered by the wind project. “There are cost and emissions reductions made possible by the switch to electric trucks and Ford ranked high in performance,” said Evan Wetick, Plant Manager at Greenwich Wind Farm.

Greenwich Wind Farm is nearly an hour outside Thunder Bay, in the hills of Crown land where the winter temperatures average around -20°C. The team at the site is looking to determine how these electric trucks perform on steep gravel road inclines and in extreme winter temperatures.

According to Wetick, the trucks have performed very well so far, compared to the gasoline vehicles they usually use.

Compressor replacement

Our natural gas transmission lines use compressors to maintain pipeline pressure and keep the natural gas flowing. As part of our ongoing modernization program, we are assessing the potential replacement of older natural gas-fired compressors (and the motors that drive these compressors) with newer, more efficient versions or electric-driven compressors. Replacement of this equipment reduces combustion emissions³ while improving operational reliability and safety. In early 2024, we replaced 12 compressors with two more efficient units.

Fleet electrification

GDS’s fleet includes more than 1,500 vehicles in Canada. We use these vehicles to check meters, inspect pipelines and conduct maintenance and repair work. When possible, we look for opportunities to increase efficiency and reduce emissions from our fleet. We have taken initial steps towards fleet electrification – we currently have six battery electric vehicles, two plug-in-hybrid vehicles and four hydrogen vehicles.

¹ This means less than 0.3% of the total natural gas transported should be released into the atmosphere.

² Based on the mile-adjusted throughput methodology.

³ This estimate assumes future utilization is similar to past utilization.

3 Lower-carbon power for our operations

Enbridge operates the longest and most complex crude oil and liquids transportation system in North America. Our Liquids Pipelines (LP) business primarily uses electric-powered pumps to move crude oil and other liquids through these pipelines, making electricity the main source of our Scope 2 emissions. We actively seek opportunities for lower-carbon electricity to reduce our carbon footprint.

Since 2022, we have secured a zero-emissions source (nuclear) for our Illinois operations which is estimated to avoid approximately 500,000 tonnes of CO₂e. The avoided emission amount is estimated using the [EPA eGRID](#) in 2024. Additionally, three solar projects (Alberta Solar One in Alberta, and Portage and Adams in Wisconsin), produce around 29 MW of renewable energy, resulting in reductions of approximately 20,000 tonnes of CO₂e in 2024.

4 Energy efficiency

In addition to lowering the carbon energy used in our operations, we focus on energy efficiency through operational optimization, equipment efficiency and energy efficient buildings.

Operational optimization: We improve energy efficiency and reduce waste through pump selection and volume allocation optimization. Our Energy Optimizer tool, which uses machine learning to identify most efficient pumps, helped avoid approximately 28,000 tonnes of CO₂ in 2024. We prioritize higher diameter pipes when deciding the timing and routing of commodity delivery which reduce overall power usage, reducing costs and avoid wasted energy. We conducted energy audits along our Mainline system to establish efficiency baselines in 2024. These baselines will help monitor improvements and identify focus areas annually.

Equipment efficiency: We aim to reduce power consumption through equipment upgrades, including variable frequency drives (VFD). These controllers adjust pump speed to match pressure requirements, avoiding constant speed operation and reducing electricity use. On average, a pump with a VFD uses 25% less power than one without. We also apply drag reduction agents to reduce friction within pipelines, lowering the energy required to transport liquids.

Energy efficient administrative buildings: We have building initiatives to reduce our energy use and emissions. Eleven of our main administrative buildings are Leadership in Energy and Environmental Design (LEED) certified. In addition, three new GDS buildings aim to obtain LEED certification in 2025. Part of the design and LEED certification includes considerations towards reducing operational and embodied carbon emissions over the building's lifecycle.



Helping to reduce utility customer emissions

As an energy infrastructure company, we believe it is important to understand the indirect emissions that are created when our utility customers use the product that we deliver. Some of our emissions reduction efforts aim to mitigate these Scope 3 emissions, either by providing incentives to improve customer energy efficiency, or by providing consumers with lower-carbon fuels such as hydrogen and renewable natural gas (RNG). These efforts include:

Demand side management (DSM): DSM includes a suite of strategies used by utilities, to encourage consumers to change their energy usage patterns. For more than 25 years, we have offered DSM programs to help our gas utility customers reduce their energy costs. Through our rate-approved DSM programs, Enbridge Gas Ontario encourages customers across all sectors to implement energy efficiency measures or behaviors, for which customers receive an incentive. Residential programs include the Home Efficiency Rebate, the Home Winterproofing Program (offered to income-qualified customers) and financial incentives to upgrade equipment like smart thermostats. Our commercial and industrial DSM programs include equipment upgrade programs and incentives for businesses to identify and prioritize energy efficiency projects. Further, our DSM programs include rebates for heat pump solutions in the residential, low income and commercial sectors.

Home retrofits: Enbridge Gas Ontario continued to support the co-delivery of the Government of Canada's Greener Homes Grant to eligible Ontarians. In 2024, Enbridge Gas helped more than 90,000 eligible customers receive grants for recommended and eligible retrofits such as home insulation, windows and doors, heat pumps and renewable energy systems.

Energy solutions: Our Enbridge Sustain service is an unregulated energy-as-a-service line of business (distinct from Enbridge Gas's utility regulated services described above). This service offers energy solutions including, solar photovoltaic, hybrid heating and electric vehicle chargers to help homeowners, developers and commercial customers in Ontario reduce their GHG emissions and energy costs. Enbridge Sustain manages end-to-end delivery including design, installation, maintenance and energy reporting, at no upfront cost to customers and instead allows them to pay a monthly fee over a contracted period.

Hydrogen blending: Injecting a portion of hydrogen into the natural gas stream, called hydrogen blending, can help reduce GHG emissions associated with utility customers, since hydrogen does not produce carbon dioxide when combusted and displaces emissions from natural gas usage. We operate North America's first utility-scale power-to-gas facility in Markham, Ontario, that converts surplus electrical energy to hydrogen gas, which is then injected into the existing natural gas network. We blend approximately 2% hydrogen with natural gas and, in 2024, delivered approximately 70,000 m³ of hydrogen to our customers. We continue to increase our hydrogen production and blending expertise. Read about our other hydrogen investments on page 25.

Renewable natural gas (RNG): RNG is methane derived from gases produced and captured from the decomposition of organic wastes. Regulations within Quebec required gas utilities to provide two percent RNG in the gas they delivered in 2024. Additionally, utility customers in Ontario, Quebec, North Carolina, Utah, Wyoming and Idaho can pay a premium and voluntarily purchase RNG required to meet their energy needs and GHG reduction goals. More than 63,200,000 m³ of RNG was delivered to our customers in 2024.



For more than 25 years, Enbridge Gas Ontario has offered DSM programs to help our gas utility customers reduce their energy costs as well as their environmental impact.

A few notable results:*

35.7+ B
lifetime cubic meters in natural gas savings

67.1 M
tonnes of GHG emissions savings through our programs

* Figures represent cumulative results of our Enbridge Gas Distribution Ontario DSM programs, operating since 1995.



Learn more

[The big picture: Enbridge and hydrogen Hydrogen blending project—the first of its kind in North America](#)
[Development of hydrogen blending as a lower-carbon energy option in B.C.](#)

Offering customers lower-carbon energy solutions

Since 2022, [Enbridge Sustain](#) has been dedicated to providing innovative, lower-carbon energy solutions to support customers. As an unregulated energy-as-a-service business line within Enbridge Inc., Sustain empowers homeowners, builders, businesses and communities across Ontario to choose lower-carbon energy products and technologies such as hybrid heating, EV charging and solar energy. Sustain simplifies the adoption of low-to-no-carbon solutions by managing the entire process, from design and installation to maintenance and energy reporting, while addressing common challenges like high upfront costs, design complexities and ongoing maintenance.

- Enbridge Sustain offers affordable solutions, including:
- SmartFlow:** For homeowners, this integrated heating and cooling system helps customers save on energy and make smarter choices about their home energy needs. It combines a smart thermostat and mobile app connectivity with the efficiency of a heat pump and the reliability of a furnace.
 - Solar:** For homes and buildings, offers include custom solar solutions and end-to-end service, enabling customers to capture the sun's energy and turn it into electricity with a range of solar options, including solar panels.
 - EV charging:** For condo, business and multi-residential owners, this solution offers charging stations compatible with most EVs. Users can control their EV charger, limit access, check the status of their charge and see monthly fees in real time with the app.
- Enbridge Sustain makes lower-carbon energy solutions accessible and affordable, offering options that can help reduce GHG emissions and lower energy costs. These efforts align with federal, provincial and municipal strategies to reduce GHG emissions, helping communities move toward their net-zero goals.

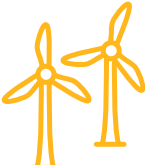
Investments in renewables and lower-carbon technologies

We believe in a balanced approach to the energy evolution. We are investing in modern energy delivery infrastructure to sustain access to secure, affordable energy and building on two decades of experience in renewable energy to advance new technologies including wind and solar power, hydrogen, renewable natural gas and carbon capture and storage (CCS).

1 Investing in renewable power

We are pursuing renewable power generating opportunities in North America and Europe to support growing energy demands. By leveraging our technical skills, we continue to develop a strong portfolio of renewable projects.

In 2024, the 577 MW Fox Squirrel Solar project and the Fécamp and Provence Grand Large offshore wind farms came into operation, and we started construction on two new solar projects with a combined capacity of 945 MW. Our combined Renewable Power generation investments now represent approximately 3,482 MW (net) in operations and construction of generation capacity. Please refer to the table on the right for a detailed breakdown of our major renewable projects.¹

 Solar	 Onshore wind	 Offshore wind
411 MW generation capacity by North American solar facilities in operation	1,399 MW generation capacity by North American onshore wind facilities	621 MW generation capacity by European offshore wind facilities
945 MW in projects under construction	An interest in 16 onshore wind projects in North America	97 MW expected to be generated by the Calvados offshore wind project in France, which is currently under construction
An interest in 13 solar projects in North America		
2024 highlights		
+815 MW We started construction of the 815 MW Sequoia Solar Project.	+200 MW We announced plans to develop the Seven Stars Energy project, a new wind energy project southeast of Weyburn, SK, in partnership with six First Nations.	+497 MW Fécamp offshore wind came into operation. We own 17.9% of this 497 MW wind farm.
+577 MW The second and third phases of Fox Squirrel Solar came into operations. We own 50% of this 577 MW project.		+448 MW Construction is underway for the Calvados 448 MW offshore wind farm, for which we own a 21.7% share.
+130 MW We started construction of the 130 MW Orange Grove Solar Project in Texas (placed in service in Q1 2025).		+25 MW Provence Grand Large came into operation in November 2024. This is a 25 MW floating offshore wind project we own in partnership with EDF Renewables and CPP Investment Board.



Increasing solar generation in Texas

Demand for energy is soaring globally, and power purchasers are increasing the procurement of renewable energy as part of their overall energy strategies.

Sequoia Solar is located southeast of Abilene, Texas. The project will use approximately 5,300 acres of what today is mostly non-arable land and, at completion, will consist of about 1.8 million solar panels. For Toyota, Sequoia adds to other solar and wind projects and virtual purchase power agreements that the auto giant has pursued to accomplish one of its goals – to achieve carbon neutrality at all of its North American facilities by 2035. AT&T, meanwhile, will use the power to offset its energy expense and reduce its carbon footprint.

Our 130 MW Orange Grove Solar Project in Jim Wells County, Texas, was placed into service in early 2025. Orange Grove is Enbridge's first solar project in Texas, where we already own and operate three wind energy facilities. With about 300,000 solar panels on 920 acres, the project created about 400 jobs during the construction phase. We have secured a long-term virtual power purchase agreement with AT&T, enabling them to grow their supply of renewable energy.

We are excited to continue to generate the energy Texas, and the world, needs. Read more about [Sequoia Solar](#) and [Orange Grove](#).

¹ Enbridge also has an interest in the Neil Hot Springs geothermal power plant, which has a net generation capacity of 9 MW.

2 Investing in renewable natural gas

RNG is a biomass-based source of methane that provides an alternative to conventional natural gas. Because RNG is derived from organic wastes ultimately produced from plants, which consume carbon dioxide from the air as they grow, there is no additional amount of carbon dioxide being released into the atmosphere when RNG is used.

Our investments in RNG include owning biogas facilities, upgrading facilities and building infrastructure to connect RNG producers to the gas network. We invest in RNG because we believe that, as societies increasingly prioritize sustainability, RNG is poised for growth as the global focus on lower-emissions energy solutions intensifies. The International Energy Agency estimates that by 2027 global RNG production could nearly double from 2023 levels, reaching over 16 bcm.¹ Another benefit of RNG is that it can be seamlessly integrated into existing natural gas infrastructure, offering a versatile energy source for heating, transportation and electricity generation.

 **Learn more**
[Enbridge's involvement in RNG](#)

Enbridge has been investing in and enabling RNG developments for many years, including:

- We have connected seven RNG projects in our Enbridge Gas Ontario service territory since 2011, when the city of Hamilton became the first RNG production facility to be connected to Enbridge Gas' network in Ontario. Our most recently connected project is the Disco Road RNG project, a collaboration between the City of Toronto and Enbridge Gas to produce RNG from "green bin" organics. As part of this collaboration, Enbridge Gas owns and operates the biogas cleanup system and provides this service to the City of Toronto.
- An additional 15 projects are in various stages of development in Ontario and a further five projects with U.S. local distribution companies in Utah, North Carolina and Ohio.
- We purchased six operating landfill gas-to-RNG production facilities. These facilities deliver RNG from municipal landfills in one Arkansas and five Texas locations.
- We invested \$108 million for 10% equity in Divert Inc. (Divert). Additionally, Enbridge and Divert are investing \$100 million to develop a facility in Longview, Washington. Enbridge and Divert plan to develop more facilities that turn waste food into RNG. The collaboration aims to grow RNG supply and decarbonize the food value chain.



Turning landfill waste into energy

The RNG production process most commonly used today involves the anaerobic digestion of organic wastes such as livestock manure, food waste and other organic waste material. When these wastes are deposited in a landfill or diverted to a processing facility called an anaerobic digester they produce biogas, which contains mainly methane and carbon dioxide. By collecting and utilizing this biogas, which may have otherwise been released into the atmosphere, RNG helps reduce methane emissions. Carbon dioxide and other contaminants are removed from the biogas so that the remaining methane achieves gas pipeline quality requirements.

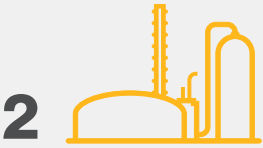
By collecting the gases produced by buried waste, and filtering out all but pipeline-quality methane, our landfill gas-to-RNG facilities:

- Help to reduce GHG emissions from entering the atmosphere
- Support odor control at landfills
- Increase both jobs and career opportunities for members of the surrounding communities

These facilities also increase supplies of RNG that can augment conventional energy sources to supply homes, businesses and industries.



1 Every day, waste collection trucks deliver trash to the landfill, where it's dumped and compacted. Trash decomposes and produces gas – more than half of which is methane.



2 Landfill gas is purified and compressed. What remains is marketable, pipeline-quality RNG.



3 RNG is transported via pipeline to gas transmission systems or to local gas utilities, which distribute the gas to homes, businesses or industrial facilities.

¹ <https://www.iea.org/events/biomethane-a-global-stocktake>

3 Investing in carbon capture and storage

For industrial processes, we are investing in carbon capture and sequestration to help mitigate emissions from hard-to-abate processes such as steel and concrete production. We believe carbon capture will be required to meet some of the most ambitious global emissions reduction goals. Our technical capabilities align with what is needed to scale carbon storage, and we can leverage our assets to connect industrial facilities with carbon hubs via pipelines. We are an investor in two carbon storage projects:

Wabamun Hub in Alberta, Canada

We have the rights to two deep saline reservoirs corresponding to approximately 220,000 hectares west and north of Edmonton, Alberta. We are developing the transportation and storage infrastructure to use these reservoirs for carbon storage to serve industrial carbon capture projects nearby. The Wabamun Hub is being designed on an open-access basis for nearby industrial facilities. Although no CO₂ has been injected to date, work is underway and this project could be in service by 2027.

OnStream CO₂ in Louisiana, U.S.

We have partnered with two other companies to develop a portfolio of carbon storage projects across Louisiana's southern coast. The projects combine strategic transportation solutions with advantageous geology for permanent CO₂ storage. The two planned projects have an estimated storage capacity of more than 325 million tonnes of CO₂ and one of the projects entails repurposing our pipelines from transporting natural gas to transporting CO₂. Read more about [Onstream CO₂](#).

4 Investing in hydrogen

Hydrogen gas, whether it's created through electrolysis ("renewable hydrogen") or a steam methane reforming process with carbon capture ("low-carbon hydrogen"), has several uses. It can be blended into existing natural gas transmission and distribution networks, used for peak power generation, directed toward modes of transportation such as heavy-haul trucking, aviation and shipping, applied to industrial processes that are hard to electrify or stored for future use at a scale that exceeds battery capacity. In addition to our hydrogen production and blending facility in Markham, Ontario (read more on page 22), we are:

- Advancing our interest in the Appalachian Region Clean Hydrogen Hub (ARCH2) with Enbridge Ohio poised to provide hydrogen storage for fleet refueling by a local transit agency.
- Exploring potential interest in the Mid Atlantic Clean Hydrogen Hub (MACH2).
- Exploring the pyrolysis of natural gas to make low-carbon hydrogen. We were encouraged by the 2024 announcement in the Canadian Government Fall Economic Statement, which considered methane pyrolysis an eligible candidate for the Canadian Hydrogen Investment Tax Credit.

5 Investing in lower-carbon ammonia

Lower-carbon ammonia is emerging as a growing product for both traditional agricultural applications as well as transitional energy for power generation, transportation, and industrial processes. We continue to expand our collaboration with Yara to evaluate future ammonia production facilities in the U.S. Gulf Coast and ammonia import and export infrastructure globally, starting with the proposed lower-carbon blue ammonia production facility proposed near Corpus Christi, Texas. The proposed project represents a significant development opportunity for surrounding communities. The project includes two production units with a total production capacity of up to 2.8 million metric tons of ammonia per year. Read more about [Project YaREN](#).

We collaborate through partnerships and advocacy on the world stage, such as participation in the Canadian Hydrogen Association, the Department of Energy in the U.S. and the Hydrogen Council. We are also an active member of Pipeline Research Council International Emerging Fuels Institute, contributing to knowledge and leading projects to advance state of the art in hydrogen pipelines.

In Ohio we held two university studies with Cleveland State University where engineering students worked with Enbridge Ohio engineers, project managers and other employees to simulate and understand hydrogen blending and production methods. We hold facility tours at our Hydrogen Heights system regularly for universities and professional organizations.



A collaborative approach to carbon capture and storage

We believe carbon capture and storage is a critical decarbonization technology that will be required to support hard-to-abate sectors in meeting their goals.

Enbridge's Open Access Wabamun Carbon Hub is under development north and west of Edmonton, Alberta. The Wabamun Hub is positioned to support industry in Edmonton and Alberta's Industrial Heartland with CO₂ transportation and storage and to serve nearby projects, such as the Heidelberg Materials' CO₂ capture project at its proposed cement plant. Once built, local Indigenous groups will have the opportunity to co-own an interest in the hub's CO₂ transportation and storage infrastructure.

Projects like the Wabamun Hub are being developed across North America to help support the decarbonization of industries like cement, power generation, steel, petrochemicals, hydrogen production, and oil and gas production and refining. Read more about the [Wabamun Carbon Hub](#).

6 Balancing increasing energy demand and energy evolution

We believe North American natural gas is a key part of the global energy evolution. We continue to leverage our infrastructure to meet growing energy needs in North America and around the world helping to support global emissions reduction efforts.

Helping customers switch from coal to natural gas:

Replacing coal with natural gas provides a reduction in GHG emissions¹ for energy-intensive industrial processes that are challenging to electrify, like steelmaking and mining. We connect industry players with the natural gas they need and continue to invest in new technologies such as carbon capture that have the potential to further support decarbonization of hard-to-abate sectors.

Meeting the increased energy needs of data centers:

The emergence of cloud computing and AI is driving an expansion of data center capacity, which is expected to increase energy demand.² Since data centers operate 24/7, they need reliable baseload power which is driving an increase in natural gas demand.

Supporting increasing energy needs of our customers:

The Panhandle System is a critical natural gas pipeline system that supports Enbridge Gas Ontario's residential, commercial and industrial customers in southwestern Ontario. Expansion of this system is required to help meet Ontario's growing energy demands due to increasing electrification and strong population and economic growth. The expansion involved the construction of a 19-km pipeline that will allow us to meet the increasing demand forecasted in the Panhandle Market, primarily to serve greenhouses, automotive and power generation customers. Construction on the project started in June 2024. Although additional work on the project is scheduled to be completed in 2025, the pipeline went into service in December 2024.

Supporting fuel switching overseas:

Exporting LNG has the potential to help displace coal in Asia and Eastern Europe and could have an impact on reducing global emissions reductions. We operate LNG export facilities, including a 30% interest ownership of the Woodfibre LNG facility, which is a natural gas liquefaction and export facility designed to produce 2.1 million tonnes of LNG per year for overseas markets. [Woodfibre LNG](#) is being built near Squamish, BC.



Providing energy to grow our food

There is a need for increased natural gas capacity on Enbridge's Panhandle System to meet the forecasted demand. One of the most important beneficiaries of our [Panhandle Expansion](#) project is the greenhouse agriculture sector.

Greenhouses rely on natural gas to continue to grow plants – including food crops – during the winter. Natural gas is not only used to heat the greenhouses. A portion of the CO₂ that would normally be emitted into the atmosphere upon combustion of the natural gas is captured and used within the greenhouse, where it is consumed by the growing plants, resulting in faster growth and increased production.

At this point, the greenhouse sector does not have a viable economic alternative to replace natural gas for heat and CO₂ production.

In southwestern Ontario, the greenhouse market has experienced significant growth, providing approximately 14,500 jobs and supporting food processing plants and packagers in the area. Greenhouse vegetable production is integral to a solid and resilient domestic food supply system and produces nutritious and affordable food for Ontarians.

Through the Panhandle Expansion project, Enbridge is helping to support the continued operation and success of greenhouses in the area.



[Panhandle Gas expansion](#)

¹ <https://www.iea.org/reports/the-role-of-gas-in-todays-energy-transitions>

² <https://www.spglobal.com/ratings/en/research/articles/241022-data-centers-more-gas-will-be-needed-to-feed-u-s-growth-13290987>

Our GHG emissions performance

We continue to advance toward our goals, set in 2020, of reducing GHG emissions intensity by 35% by 2030^{1,2} and achieving net-zero emissions from our operations by 2050.^{1,3} Since we set those goals, we have reduced our emissions intensity by approximately 40% – exceeding our 2030 target – and our absolute emissions by 22%.

Emissions intensity of our operations

In 2020, we set a goal to reduce our (Scope 1 and 2) GHG emissions intensity by 35% by 2030,^{1,2} from a baseline year of 2018. We achieved that goal in 2023, and in 2024 our Scope 1 and 2 intensity was 40% lower than our baseline year of 2018. Our emissions intensity reduction was driven by several factors, including a decrease in fuel consumption, methane emissions reduction initiatives, lower-carbon emissions power purchase agreements and increased throughput on our system. Additionally, we divested some high-emissions intensity assets, including gas processing and gathering facilities. In 2024 we also divested our interest in the Alliance Pipeline and Aux Sable.

Scope 1 GHG emissions result directly from our operations, including combustion, fugitive, vented and flared emissions. Examples include emissions from combustion in compressors, boilers or vehicles, as well as emissions from equipment operations (i.e., fugitive and venting emissions). Our GTM and GDS business units have primarily Scope 1 emissions because they use natural gas-powered equipment to deliver gas into and through pipelines. Overall, Company-wide absolute Scope 1 emissions are similar to 2023, due to the net impact of the sale of our interest in Alliance Pipeline and Aux Sable and the acquisition of three U.S.-based gas utilities.

Scope 2 GHG emissions result from the generation of purchased electricity we consume. Our LP business has primarily Scope 2 emissions because it uses electric pump stations to push crude oil through its pipelines. Company-wide Scope 2 emissions have decreased 5% from 2023. Our Scope 2 emissions went down as a result of grid decarbonization, improved energy efficiency and an increased use of lower-carbon generation to power our assets. Read about our energy efficiency programs on page 21.

Scope 3 GHG emissions are indirect emissions that occur in the value chain, from sources not owned or controlled by the Company. Despite minimal guidance defining parameters for the midstream sector, we have reported on select Scope 3 emissions since 2009, and we continue to enhance our approach every year. See the adjacent table for our current Scope 3 emissions and read about how we are helping our customers reduce emissions (category 11) on page 22.

2024 Absolute GHG emissions

Scope 1: **7.5M** tonnes of CO₂

Scope 2: **5.6M** tonnes of CO₂

Scope 3: **33.8M** tonnes of CO₂

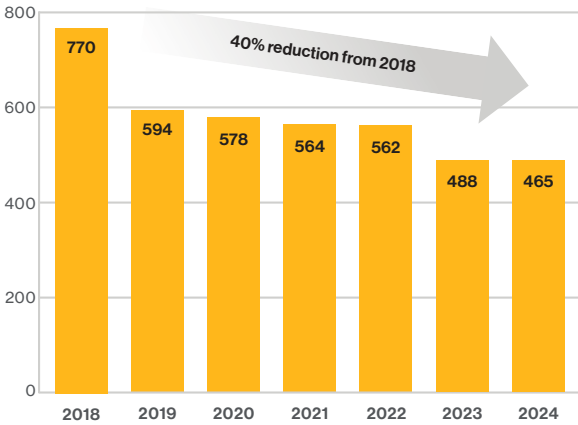
Reduce emissions intensity from our operations by **35%** by 2030 from 2018 base year^{1,2}



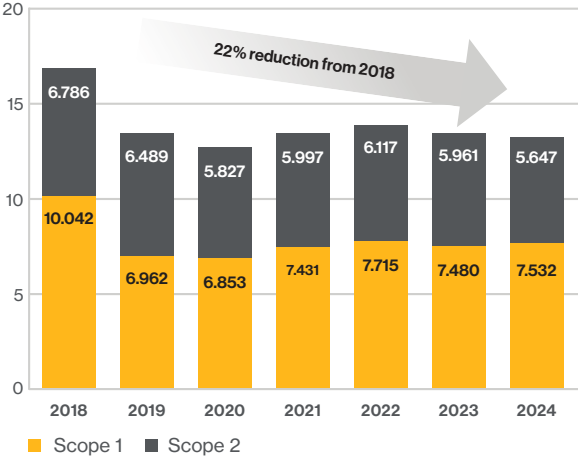
Net-zero emissions from our operations by 2050^{1,3}



Enbridge GHG emissions intensity (tCO₂e/PJ)



Scope 1 and Scope 2 emissions (million tonnes CO₂e)



Scope 3 emissions (tonnes of CO₂e)

Category	2022	2023	2024
Category 3: Fuel- and energy-related activities	2,110,300	2,170,000 ⁴	2,058,000
Category 6: Employee business travel	3,600	5,100	7,300
Category 11 ⁵ : Utility customers' natural gas consumption (GDS directly supplied)	25,450,000	23,350,000	31,781,000
Total	27,563,900	25,525,100	33,846,300

¹ GHG emissions are from assets over which we have operational control (Scope 1 and Scope 2 emissions). Projected reductions of GHG emissions intensity and absolute emissions is relative to the 2018 baseline year.

² This metric aggregates emissions and throughput for each business unit on the basis of tonnes of carbon dioxide equivalent per energy delivered in petajoules (PJ).

³ Absolute emissions.

⁴ 2023 Category 3 reported amounts are restated due to an emissions factor correction.

⁵ In 2024, we separated Scope 3 emissions from our utility customers' natural gas consumption from Enbridge-owned natural gas and third-party deliveries. Only emissions from Enbridge-supplied utility customers are included in the Scope 3 total. The utility companies we reported under this category include Enbridge Gas Ontario, Enbridge Gas Quebec, Enbridge Gas Utah, Wyoming and Idaho, Enbridge Gas North Carolina and Enbridge Gas Ohio.

Scope 3 emissions

We continue to review our Scope 3 reporting. We have clarified those categories that are relevant to our business and estimated the impact of each of the 10 relevant [Scope 3 categories](#). Additionally, we developed a plan to report in the next few years on additional relevant categories.

Scope 3 categories	Emissions associated with:	Relevant to Enbridge	Estimated impact (tonnes CO ₂ e)	Reporting status	Actions
Category 1: Purchased Goods and Services	(1) Procurement of goods and services, including human resource services, maintenance, repairs, and day-to-day operational activities, (2) from the purchase of fuel for our utility customers	✓	●	In development Timeline: 2 – 4 years	We are actively enhancing our capability to effectively monitor supplier-related emissions. In 2023, an independent assessment was performed to identify key gaps in reporting within this category. The insights derived from the assessment are being used to enhance our long-term reporting approach.
Category 2: Capital Goods	Purchase of fixed assets such as plants, buildings, and equipment	✓	●	In development Timeline: 2 – 4 years	Our supply chain team uses a third-party assessment platform and collaborates with our key suppliers to collect specific sustainability data, including Scope 1, 2 and 3 emissions.
Category 3: Fuel- and Energy-related Activities	Energy consumed in our operations (not counted in Scope 1 or 2)	✓	●	Already reporting	
Category 4: Upstream Transportation and Distribution	Suppliers transporting goods to Enbridge	✓	○	No reporting plan at this time	Due to minimal emissions in this category, placed in lower priority in our Scope 3 reporting.
Category 5: Waste Generated in Operations	Generation and disposal of waste during Enbridge operational activities	✓	○		
Category 6: Business Travel	Enbridge's employee business travel, including air, rail and rental car travel	✓	○		
Category 7: Employee Commuting	Enbridge's employees commuting to work, including vehicle, bus, rail or other types	✓	○	No reporting plan at this time	Due to minimal emissions in this category, placed in lower priority in our Scope 3 reporting.
Category 8: Upstream Leased Assets	Enbridge office buildings and facilities that are operated but not owned by Enbridge	✓	○		
Category 9: Downstream Transportation and Distribution					
Category 10: Processing of Sold Goods					
Category 11: Use of Sold Products	Natural gas combustion emissions from our utility customers	✓	●	Already reporting	We continue to actively engage on the development of midstream guidance for Category 11.
Category 12: End-of-Life Treatment of Sold Products					
Category 13: Downstream Leased Assets					
Category 14: Franchises					
Category 15: Investments	Investments that are not otherwise reported under Enbridge Scope 1 and Scope 2 emissions	✓	●	In development Timeline: 1 – 2 years	We are in the process of developing the approach to gather emissions data from our non-operational assets.

● >1 million ● 100 K to 1 million ○ <100 K

Other GHG emissions-related metrics

We have developed the following two metrics aimed at enhancing our understanding of upstream and downstream GHG emissions impacts.

Upstream emissions intensity of the energy we deliver

In addition to the emissions intensity of our operations, we report the average upstream emissions intensity of the commodities we transport on our pipeline systems. This metric is intended to reflect the changing emissions intensity profile of producers and the emissions impact of our assets over time. In 2024, the emissions intensity of the energy we delivered increased slightly, primarily due to updating the Global Warming Potentials from the Fourth Assessment Report (AR4) to the Fifth Assessment Report (AR5).¹ We will continue to report as thoroughly as possible in this area while encouraging producers and other data providers to generate and report more detailed and up-to-date data. As data quality in this area improves, we hope to enhance our understanding of producers' profiles and could provide information to consumers seeking lower-emissions fuels to help them distinguish products based on environmental criteria.

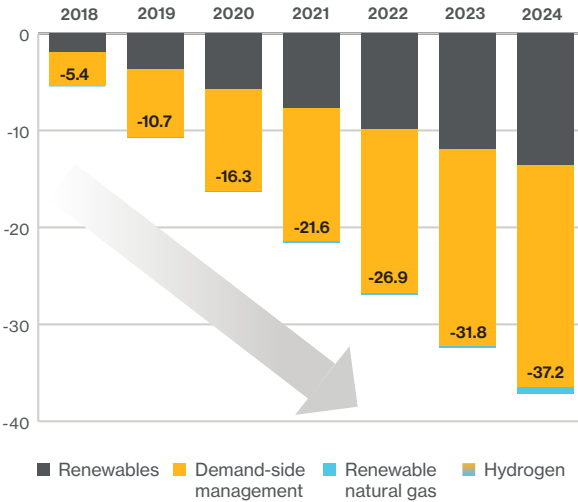
Enbridge upstream emissions intensity data (kgCO₂e/GJ)

	2022	2023	2024
Enbridge upstream emissions intensity	12.83	12.72 ²	12.86

Helping society reduce emissions

We are actively contributing to the reduction of emissions produced by other parties by offering and promoting the use of fuels with a lower-carbon footprint to consumers. This metric tracks how our investments in lower-carbon projects, including wind and solar investments, DSM, hydrogen and RNG help to support customers' efforts to reduce their GHG emissions. The chart below illustrates how these investments have reduced more than 37 million tonnes CO₂e annually since 2018.

Contribution to lower third-party emissions (cumulative million tonnes CO₂e)



 **Learn more**
See our [2024 Datasheet](#) for more details on our emissions intensity metric.



¹ https://ghgprotocol.org/sites/default/files/Global-Warming-Potential-Values%20%28Feb%2016%202016%29_1.pdf
² The 2023 upstream emissions intensity data has been revised following the identification of a formula error.

Operational management

At Enbridge, Safety is a core value, not only for employees and communities, but also for our operations. Through our training, management and internal communications, we strive to cultivate a culture of safety and reliability, recognizing the inseparable connection between the reliability and integrity of our assets and the safety of our employees and communities.

Asset integrity and reliability

To support our safety and reliability goals, we invest heavily in our pipeline integrity programs. We work to reduce the risk of leaks and releases by using both asset condition monitoring data and risk analytics to carefully plan where maintenance is, and will be, needed prior to the next inspection. In addition to our regular maintenance activities, we further reduce risk and improve our operational resilience through ongoing monitoring, inspection of our pipelines and detailed analysis of incidents and abnormal events.

Innovating in distribution asset integrity

In 2024, Enbridge Gas Ontario introduced a new Enhanced Distribution Integrity Management Program (Program) to apply a data- and risk-informed, preventative approach to more than 7,000 km (4,350 miles) of distribution pipelines – typically those at higher pressure and/or within dense urban areas. The team also developed a new risk model for our distribution systems to prioritize assets that are higher risk for inspection and assessment. In a novel application of reliability engineering, the team analyzes information from select in-line inspections (read details on page 31) and uses data analytics to extrapolate the reliability of uninspected, like-for-like distribution assets in the system. The resulting data will form the basis of field mitigation activities, risk assessments and potential regulatory submissions. By expanding on predictive analytics traditionally

reserved for transmission pipelines, the Program supports preventative management of the most critical distribution pipelines and the control of costs for the households we serve. In recognition of the Program's effectiveness and unique approach, the Ontario Energy Association (OEA) awarded Enbridge's Integrity and Risk team the [OEA Innovation Award for 2024](#).

456
in-line inspections across our
liquids and natural gas systems¹

~39,641 km
inspected for geometry, corrosion and
cracking with in-line inspection across
our liquids and natural gas systems¹

 **Learn more**
[Management approach: Asset integrity and reliability](#)
[Safety and Reliability Policy](#)
[Infographic: Proving Safety](#)

¹ Excludes U.S. gas utilities.



Pipeline inspections

We use in-line inspection (ILI) practices to assess the condition of our assets and plan maintenance activities across our pipeline systems. This year, we inspected 39,641 km (24,636 miles) of pipelines, for geometry, corrosion and cracking threats, and used leading-edge ILI technologies including:

Using robotic tools for distribution pipelines

Unlike transmission pipelines, distribution assets were not originally designed for ILI, adding complexity to developing inspection-centric integrity practices. For example, distribution pipelines have smaller diameters, sharper bends and more branches than transmission pipelines.

Conventional ILI technologies can move through pipelines free-swimming but require two different points for launch and retrieval. We have begun using robotic “crawling” ILI tools that can be launched and retrieved from the same point. Equipped with a camera, they can detect and move around obstacles, avoid branches and navigate through sharper bends.

We inspected four distribution pipelines (totaling a distance of 11.3 km (7 miles) across Ontario using these specialized ILI tools. We’re using the results from those inspections as part of the integrity program to assess the reliability for similar pipes.

Leveraging magnetometry for aerial inspections

We are introducing an innovative aerial inspection technology as part of our GTM integrity programs. The technology uses a portable magnetometer mounted to a quadcopter drone or a cart. During an aerial survey, the magnetometer records magnetic field data, which is then processed to rapidly and precisely map subsurface attributes, including metal objects and pipeline position. The technology has proven useful for identifying depth of cover changes and checking whether ground movement has affected a pipeline segment as it can measure small movements of the pipeline to within 2.5 cm (1 inch).

ILI tool runs map pipeline positions and are typically planned well in advance to accommodate pipeline scheduling and the tool must be run through the entire pipeline segment. In comparison, the drone can be used when and where it is needed and without a service disruption. The new aerial inspection is especially useful for inspecting the right-of-way condition and ground stability after heavy rains and floods, when limited access and timeliness reduce our inspection options. This innovative combination of technology is enabling us to safely and efficiently measure strain on our pipelines from natural hazards, which allows us to more quickly intervene, if necessary.

Improving crack detection

NDT Global and Enbridge GTM have entered into an agreement to develop a new crack detection tool specifically for gas systems. The tool will combine state-of-the-art gas-coupled ultrasonic transducers to generate sound waves in the pipe to detect, characterize and size stress corrosion cracking and similar cracking threats. The tool leverages over 20 years of experience acquired by NDT Global managing cracking with ultrasonic in-line inspection tools designed for liquid systems.

Our expectation of this collaborative research is a tool that will maintain the effectiveness of current crack management approaches with improved efficiency, i.e., the ability to confidently differentiate between cracking and other artifacts that may exist in a pipeline.

With this new detection technology, we can continue to improve our proactive identification of any features of concern within the pipeline while reducing unnecessary integrity digs and blowdowns – and the associated release of greenhouse gases – and improving our resource allocation to higher risk assets.



Geohazard program

Maintaining the integrity and reliability of our essential energy infrastructure, which supports both our economy and daily activities, is a key focus for Enbridge. Most of our liquids and gas pipelines are buried underground and many cross waterways. Changes in ground stability and water flow can result in damage to our assets. Some of these conditions worsen during extreme weather events such as floods and landslides. Our geohazard program proactively identifies, characterizes and prioritizes threats to determine where and when monitoring and/or potential mitigation may be required.

Identifying areas of risk

We proactively identify any areas of risk and characterize them as either geotechnical hazards (such as slope movement) or hydrotechnical hazards (such as submarine currents or scouring at water crossings), which make up the largest portion of our natural hazard risks. Hydrotechnical hazard sites are monitored using stream flow data and have a high-flow alert, providing automatic notification in the event of high flow rates. To further support our risk assessment, in 2024 we developed software called E-Nexus that allows us to integrate geospatial information topographically overtop our pipelines, along with known asset integrity threat information regarding the pipeline condition. While this process previously required a large amount of manual effort, with the new software we can rapidly sort, visualize and assess various data points including topographical changes, geohazards, cracks and areas of strain, helping us make more informed and integrated decisions with available data.

Leveraging sensor technology

We continue to explore advanced technologies and use a variety of sensors to monitor conditions near our pipelines. Precipitation and seismic monitoring have been added to our geohazard program to identify inspection areas prone to landslides and in order to proactively locate new or accelerating geohazards.

In our LP business unit, we use various remote sensing technologies to monitor land movement near our pipeline rights-of-way and terminals, using this information and data as a predictor for where pipelines may be affected. In our GTM business unit, we incorporate the use of AI for the prediction and monitoring of risks such as summer storms, particularly for critical water crossings, and we’ve invested in embedded fiber optic sensing technology (Smartpipe) to enable enhanced leak detection.

Prioritized inspections

We prioritize our inspections based on risk exposure – with increased inspection frequency if flooding or geotechnical risks are identified – and prioritize mitigation measures in locations that are higher risk. Our geohazard program emphasizes inspecting slopes and water crossings to better understand how the physical landscape is changing and how that impacts our pipelines. We also conduct extensive leak surveys on our distribution system, which provide additional opportunities to examine any changes in the vicinity of our pipeline.

Water crossing replacements

As floods and other extreme weather events become more frequent and severe, we’re more closely examining our pipeline system water crossings. As part of our geohazard program, we study the risk at pipelines that cross water bodies and prioritize treatment or replacement projects based on risk level and factors related to environmental impact. We use advanced engineering methods to safely conduct water crossing replacement projects. For example, in the case of large rivers or certain sensitive crossings, we have used horizontal directional drilling to install or replace underground pipelines. In 2024, we completed two high-risk river crossing replacements that have lowered the level of threat from floods and ground movement.



Public awareness and damage prevention programs

We have a Public Awareness Program to help inform communities about safety around our assets, including preventing third-party damage to our pipeline infrastructure, which is a common cause of leaks. We engage with landowners, developers and municipal governments about the presence of pipelines and raise awareness of the criticality of pipeline locates, including following up with construction/excavating companies that have violated safe digging rules around our pipelines. As part of one-call and locate services (e.g., Click Before You Dig) we work to promote excavation safety and provide an [online portal](#) with resources on responsible digging. To maintain accountability, we report damages caused by third parties on our pipeline networks and will support regulators in enforcement.

Damages per 1,000 third-party locate requests (natural gas distribution network)¹

2022	2023	2024
2.32	2.10	1.91

¹ 2024 data only includes Gas Distribution Ontario.

 **Learn more**
[Enbridge's Public Awareness Program](#)

Learning from incidents

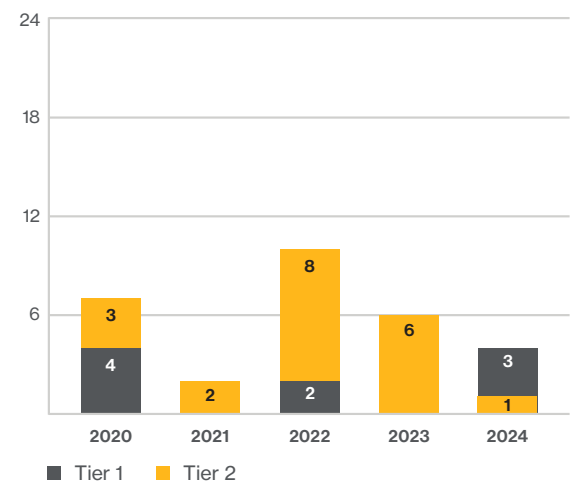
We’re committed to pipeline safety and continuously strive to learn from our experiences to reduce incidents and improve safety across our operations.

In 2024, we recorded four Tier 1 and six Tier 2 pipeline safety incidents, as categorized by the CSA Z260-19 Pipeline System Safety Metrics standards. These incidents involved six natural gas releases, and four liquids spills resulting in a total volume of 2,181 barrels of crude oil released within Enbridge facilities. Since Tier 1 events are events with greater consequences, we place a strong emphasis on learning from them in order to prevent recurrence. We thoroughly investigate incidents, near misses and abnormal events to identify any patterns or organizational factors that could lead to leaks or system shutdowns across our pipeline system. Details about each of these incidents are on page 110.

In addition to the releases described above, two fatal incidents occurred within Enbridge utilities in the U.S. in 2024. A natural gas release in residential/commercial settings in Youngstown, Ohio, resulted in a fatality and several individuals getting injured. A second release in a residential area in South Jordan, Utah, resulted in a single fatality. We are deeply saddened by these incidents and Enbridge is fully supporting the ongoing investigations by the National Transportation Safety Board (NTSB).

We report process safety events for our liquids (spills) and natural gas pipelines (releases) separately since they have distinct potential environmental and safety impacts.

Liquids: Number of reportable process safety events

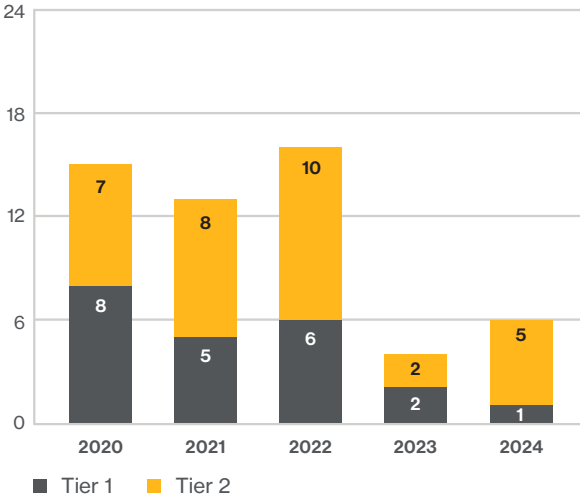


Liquids: Process safety events volume (barrels)

	2022	2023	2024
Tier 1, on-property	1,006.37	0	2,171.52
Tier 1, off-property	157.25	0	0
Tier 2, on-property	227.50	102.14	9.50
Tier 2, off-property	5.03	8.00	0

In 2024, we experienced a decrease in the number of liquid spills but an increase in the volume of on-property releases from 2023.

Natural gas: Number of reportable process safety events¹



¹ Excludes U.S. gas utilities.

Emergency preparedness and response

As we plan for secure, dependable and incident-free operations, we recognize that our business faces diverse potential threats that pose risks to our people, our facilities and, ultimately, our business. As operators of critical energy infrastructure, we maintain a constant state of preparedness.

Our approach

Effective emergency preparedness involves systematically identifying potential hazards and planning mitigation strategies to safeguard responders, the community and the environment. Our emergency management programs follow the “Plan-Do-Check-Act” cycle designed to drive continuous improvement. The same approach extends to management reviews of our emergency programs with senior business unit leaders.

Training and partnerships

The training of employees and qualifications of contractors prepare and equip us to deliver a secure, prompt and efficient response in an emergency. Each business unit maintains its own emergency management program. To provide additional capacity and backup to the regional response structure, we maintain a roster of team members who are trained to respond to a range of large-scale events. We also partner proactively with local first responders, emergency management groups, industry associations and provincial, state and federal agencies to support enhanced coordination should an incident occur.

Exercises

We conducted more than 265 emergency exercises across the enterprise in 2024. These exercises were based on scenarios to hone our skills and capabilities. We plan for a broad spectrum of hazards – including extreme weather events – with special attention to our top operational risks. Some of the scenarios we practice are spills to land and water, spills into a sensitive environment, releases into a building or a populated area and cybersecurity events. We continue to enhance our readiness for natural hazard threats (wildfires, floods, earthquakes, hurricanes, etc.) through planning activities and in the management of real events. For example, our teams in hurricane-prone regions prepare in advance of hurricane season and were activated to respond to several major storms during the year.

As part of our IRAP commitment, we offered, hosted or participated in emergency management-related opportunities with Indigenous communities, including:

- In June, we completed a field deployment exercise in coordination with the Leech Lake Band of Ojibwe in the LP Midwest Region.
- In July, Enbridge participated in the Bad River Band’s emergency response exercise, which included a tabletop exercise and the field deployment of Enbridge equipment, along with participation from our contracted oil spill response organizations.
- In October, the Mohawks of Akwesasne observed a gas distribution emergency response exercise on our Niagara Gas Transmission Ltd. Cornwall Pipeline.



IRAP Pillar 4: Environmental stewardship and safety



Preparing for complex emergencies

In October, we conducted an emergency response training exercise around our Toledo pipeline in Ohio, simulating an oil spill to land and water. The Toledo pipeline is a 142-km (88-mile) line that transports crude oil from our Stockbridge Terminal in Michigan to Toledo.

The one-day event allowed us to practice our emergency response and containment strategies, verify that our teams are ready to act and confirm that our equipment is in good working condition. Conducting these types of exercises also helps us reinforce our emergency response tactics, build confidence within the communities we operate and serve, and enables us to liaise with local authorities which maximizes our efficiency in the case of a real incident.

More than 100 individuals participated in the emergency exercise, including teams from the U.S. Coast Guard, local contractors and both state and federal officials in the areas of emergency management and environmental protection, among others.



Learn more

[Management approach: Emergency preparedness and response](#)
[Emergency response plans](#)
[Emergency Management Program overview](#)

Environmental management

We recognize the ecological and cultural significance of every location where we operate and work toward safeguarding the environment throughout the lifecycle of our projects. During projects and in our day-to-day work, we aim to reduce our impact on the environment while maintaining safe and reliable operations and complying with applicable laws and regulations.

Protecting natural resources and supporting conservation are priorities for Enbridge. We work closely with local stakeholders, Indigenous communities and our employees to mitigate impacts, where possible, and to promote shared environmental values and priorities. We invest in programs that directly support and promote environmental stewardship and conservation.

Our approach

Our Sustainability Policy sets out the principles and values that underpin our operating practices at all levels of our organization, including protection of the environment. Our commitment to environmental protection is also articulated in our Safety and Reliability Policy, which outlines the commitment to conduct our activities in a systematic, comprehensive and proactive manner that manages risk and prevents incidents. This policy establishes our Management System Structure, an integrated management system that encompasses safety, security and protection of the environment by providing consistent expectations, standards and levels of discipline across our enterprise and asset lifecycles. The development and implementation of this management system is informed by industry-leading protocols including, but not limited to, ISO 14001.

As part of our Management System Structure, business units implement an integrated management system, including an environmental protection

program. The goal of our environmental protection program is to anticipate, prevent, manage and mitigate operational risks and conditions that could significantly affect the environment by defining environmental management accountabilities and responsibilities in the organization. We continually monitor our environmental performance and conduct regular internal audits of our environmental protection program to assess and enhance our environmental management practices.

We work in highly regulated jurisdictions within the U.S. and Canada, with stringent and rigorously implemented environmental legislation, and we work cooperatively with various regulatory agencies.

We recognize that local communities and Indigenous people hold valuable knowledge and insights on protecting nature and the ecosystems we rely on. We engage potentially affected communities, Indigenous nations and groups and landowners early to assess and develop measures to avoid and/or mitigate adverse social and environmental impacts of our projects and operations. We also seek to incorporate traditional cultural knowledge and include Indigenous perspectives.

 **Learn more**
[Management approach: Environmental management](#)
[Safety and Reliability Policy](#)
[Sustainability Policy](#)
[Climate Policy](#)
[Indigenous Peoples Policy](#)

 **IRAP Pillar 4: Environmental stewardship and safety**



Sheep keep weeds away from our solar panels

Enbridge has embarked on a novel approach to vegetation management at our Sarnia solar farm in Ontario, Canada. Beginning in July, we engaged local sheep farmers and their flock of about 270 sheep. The pilot program saw the herd graze on an 85-acre section of the Sarnia Solar property.

Deploying grazing sheep, or goats, to help manage vegetation has many potential benefits. The sheep are effective because they graze very close to the infrastructure. Debris from conventional mowers can damage panels and there is a risk of motorized equipment igniting dry vegetation.

We will be watching for other potential benefits to the overall biodiversity of the lands, which cover 1,100 acres, house about 1.3 million solar energy panels and generate 80 MW of electricity. The sheep could eliminate the need for pesticides while

supporting the growth of native flowering plants such as clover, which are preferred by pollinators including bees.

Enbridge began operations at Sarnia Solar in 2008 and has taken a thoughtful approach when considering the ecosystem across the property. In 2015, we worked with the organization [Return the Landscape](#) to preserve endangered plants and restore woodlands and wetlands. In 2018, [we introduced five honeybee colonies](#) – an estimated total of 400,000 bees – as part of an ongoing pollinator program. Our hope is that the happily foraging sheep will positively contribute to this closely interconnected landscape.

 **Learn more**
[Keeping things 'sheep-shape' with four-legged mowing machines](#)

Biodiversity and land use

Through our operations, we interact with nature. Nature can be understood through four realms – land, ocean, freshwater and atmosphere. Biodiversity, the variability among living organisms, is an essential characteristic of nature that enables ecosystems to be productive, resilient and able to adapt to change. By respecting nature and focusing on maintaining biodiversity, we can help preserve ecosystems essential to human life.

Understanding our impacts on nature and biodiversity

Acknowledging the global risk of nature loss and its effect on businesses and society, Enbridge recognizes the Kunming-Montreal Global Biodiversity Framework to reverse nature loss by 2030 and restore biodiversity by 2050. We're closely monitoring the development of the Canadian government's 2030 biodiversity strategy

and evaluating the disclosure recommendations and guidance set out in the Taskforce on Nature-related Financial Disclosure (TNFD) guidelines.

We're working to evaluate dependencies and impacts on nature, assess the risks and opportunities to the organization and report on the results. In 2024, Enbridge partnered with Tandem Global to undertake a nature-related assessment aimed at enhancing our understanding of our interface with nature and associated nature-related dependencies, impacts, risks and opportunities of our direct operations. The assessment intends to inform future decision-making and disclosure. We are progressing through an initial discovery phase that includes gathering insights from internal stakeholders and assessing geospatial data to

identify potential sensitive or priority locations within our direct operations.

Enbridge's Biology Knowledge Centre is a team of experts supporting our business units in assessing nature-related risks and executing programs related to fish, wildlife and vegetation resources during our operations. The team centralizes and rationalizes our data collection and information-sharing related to biological resources and regulatory requirements. The Biology Knowledge Centre is housed in Environment Operations – Environmental Protection and serves all business units.

Balancing safety and biodiversity on rights-of-way

Vegetation along our pipeline rights-of-way must be cleared and maintained to allow access for inspections and maintenance. Enbridge is looking for opportunities to increase biodiversity in these areas, while maintaining the required access for operational safety and efficiency.

Our teams undertook an assessment of the current vegetation conditions on portions of our rights-of-way in the Athabasca Region in Canada. The assessment included ground surveys to identify current vegetation conditions and the use of LiDAR – a remote sensing technology that helps map out details such as vegetation density and height.

Taking a lifecycle approach

Throughout the lifecycle of our projects, our engineering and technical services teams integrate biodiversity considerations into the design, construction, maintenance and operation of our assets. Where sensitive ecological features are identified, we implement a mitigation hierarchy to reduce potential impact to species and critical habitat. The hierarchy includes prioritizing avoidance, minimizing impact, restoration and offsets, in that order.



- Prior to any new project**, we undertake a project planning and siting process that incorporates environmental and cultural assessments. As part of project planning phase, we:
- Undertake siting assessments to identify key ecological features, sensitive habitat, cultural resources and community priorities
 - Aim to use pre-existing rights-of-way, where possible
 - Conduct baseline assessments on soil, vegetation, wildlife, biodiversity, aquatic environments, air quality and water quality
 - Engage qualified professionals to identify sensitive areas, and advise on mitigation hierarchy



During construction, we implement management practices that include vegetation management and invasive species control measures, soil management and erosion control measures, and protecting species at risk and sensitive habitats. Following construction, we begin reclamation of disturbed lands. Rights-of-way are promptly restored in rural areas so agricultural operations can resume.



During ongoing operations, we identify and monitor potential impacts to land, water or wildlife. We may also consider project-specific environmental protection plans. For each project, we develop unique species at risk plans that include avoidance and mitigation measures for at-risk species. We use appropriate vegetation management methods at our facilities and pipeline rights-of-way locations and work with landowners and regulatory agencies to address the spread of invasive species. Wetland and watercourse crossing sites are monitored regularly following construction to verify they're fully restored to their previous function and value. Read about one of our wetland projects on page 37.



In the case of decommissioning, we aim to return the site to equivalent land capability. We use techniques suitable for the landscape we're working in, including active reclamation and revegetation, natural regeneration and environmental monitoring. We engage with local communities, landowners and Indigenous communities in developing restoration goals. Following decommissioning of a site, we conduct environmental monitoring to verify the success of reclamation efforts.

Working to protect biodiversity

At Enbridge, we integrate biodiversity considerations into our operations and the communities where we work to balance the protection of land, plant and animal life. Some of the ways we have worked to protect biodiversity across our operations in 2024 include:



Building a nesting box for migratory birds
Kerrobert, Saskatchewan, Canada

In May, construction crew members working on an electrical substation at the Enbridge Kerrobert terminal in Saskatchewan discovered birds with dark, iridescent blue feathers evidently looking to nest around the substation. The birds were identified as migratory purple martins. While not a species at risk, martins are known to be colony nesters, meaning where one nests, many nest.

To protect the birds and our assets, the site crew implemented nesting deterrents including physical, passive and auditory measures. The team also decided to build a multi-hole nesting box, believing that the birds might be convinced to nest there rather than in or around the substation, if installed early enough.

The plan worked and the purple martins began using the new nesting box. Due to the quick action taken to provide alternative nesting space for the birds, the project was completed as scheduled and we observed no bird nests or eggs within the substation. This experience reinforces our practice of completing daily bird sweeps while doing work during the migratory bird window.



Restoring caribou habitat
Rainbow Lake, Alberta, Canada

We've been working to restore caribou habitat after the decommissioning of our Shekilie gas pipelines. The 60-km deactivated pipelines run along a remote area, approximately 85 km northwest of Rainbow Lake within the Bistcho Lake Caribou Range in Alberta. This caribou range is a provincially significant wilderness area home to the Bistcho woodland caribou, whose population is declining.

We developed a Caribou Habitat Restoration Plan to accelerate revegetation and provide caribou with cover from predators, as well as to limit human and predator access to minimize disturbance to caribou populations.

After removal of above ground infrastructure and cutting and capping the pipelines below grade, we moved on to habitat restoration. This 109-hectare project involves ecological and functional restoration techniques including mounding – a technique that involves digging to create small divots and mounds on the ground to act as microsites to boost vegetation growth – transplanting seedlings from habitats nearby to accelerate revegetation and using existing vegetation to create natural barriers and windbreaks over exposed areas. Most of the site preparation for this project occurred in 2023, and tree planting is set to be completed in 2025.



Creating a habitat for pollinators
Salisbury, North Carolina, U.S.

Over the past few years, we have planted various small but successful pollinator plots on our rights-of-way following new construction projects. This year, we completed a larger pollinator habitat on an Enbridge Gas-owned property in Salisbury, North Carolina. A previously disturbed area was cleared of small structures, cleaned and stabilized. This area – according to the U.S. Fish and Wildlife Service – could be a suitable habitat for the Tricolored Bat, Monarch Butterfly and Schweinitz's Sunflower, all endangered (or proposed endangered) species in North Carolina.

Our team took action and created a 20 ft x 100 ft pollinator plot in the center of the property, delineating the area with string and pollinator habitat signs. To attract pollinators, the area was reseeded with grasses mixed with a seed blend containing more than 20 species local to North Carolina that are specifically designed to attract pollinators.

For future construction projects, the team also created a native seeding specifications guide that includes pollinator species. The guide has been successful in supporting our contractors in using the correct species and planting them appropriately.



Supporting the Great River National Wildlife Refuge
Quincy Island, Illinois, U.S.

For all our pipeline projects, we work to reduce our impact on the environment and mitigate any remaining impacts on wetlands or biodiversity, including through offsets or habitat enhancement projects.

To mitigate project-specific wetland impacts, a revegetation effort occurred on Long Island near Quincy, IL along the Mississippi River. We provided financial support and employee time to the Great River National Wildlife Refuge – a globally important area for songbirds, shorebirds and waterfowl.

Within a 10.5-acre section contractors planted 120 trees and 60 shrubs per acre, totaling 1,260 trees and 630 shrubs. To offset project impacts, the U.S. Army Corps of Engineers (USACE) required diverse plantings of hard mast, soft mast and floodplain forest shrub species.

Following the plantings, certified environmental consultants annually monitor the survivability of the planted vegetation. In 2024, the project completed its 10th year of required monitoring. The revegetation efforts were successful and native species such as Eastern Swamp Privet, Buttonbush, Northern Pecan and Swamp White Oak are thriving and providing habitat within this important ecosystem. The project was awarded USACE approval and is now being managed as public land.

**Sustainability
in Action**

Reef study delivers promising results for carbon sequestration

An innovative marine study has produced encouraging results about the ability of man-made reefs to contribute to carbon sequestration. The two-year study focused on the Rio Grande Valley (RGV) Reef, a 1,650-acre artificial reef off South Padre Island, Texas. The project – supported by a \$250,000 Enbridge Fueling Futures grant – is being managed by the Friends of RGV Reef, a nonprofit group that created the reef in 2017, and the University of Texas Rio Grande Valley (UTRGV) researchers. The study, led by Dr. Richard Kline and graduate students Allison White and Michelle King from the UTRGV’s School of Earth, Environmental and Marine Sciences, sought to determine how much organic carbon the reef might hold.

The RGV Reef, constructed predominately from cinder blocks and concrete railroad ties, includes 43 types of structures and 510 reef patches which are either one structure type or multiple grouped structure types. Since its creation, the reef has attracted a growing number of marine organisms – such as soft corals, sponges, barnacles and biofilms – and brought back substantial fish populations, with more than 75 species observed including snapper, groupers, grunts, drums and sardines. Fish are attracted to the structures as they provide food, protection from predators and hiding places to conserve their energy from strong ocean currents.

To determine amounts of sequestered carbon, researchers measured carbon biomass by quantifying the fish and marine life on and around its structures. They then calculated the amount of carbon retained in the bodies of these organisms.

Results from the study show that the reef’s structure and the marine life within it effectively capture and trap substantial proportions of carbon – with early estimates showing at least 7 tons of carbon. The study revealed 2.8 tons of carbon held in the bodies of fish in the reef area and at least 4.5 tons in the organisms counted to date across the outer surfaces of the reef structures – suggesting that the sponges and soft corals covering the reef contain significantly larger carbon levels than currently estimated.

While this study measured the carbon held in the living organisms above the sediments, researchers expect that a significantly larger portion of carbon is cycled through the ecosystem to accumulate and be buried within the sediments themselves, a component researchers hope to measure next.

The study has helped to establish exactly how much carbon artificial reefs can hold and thereby contribute to carbon sequestration. If artificial reefs can provide areas for carbon to accumulate that are protected from storms and human disturbances, the potential for global application is promising.

 **Learn more**
[A deeper dive into Gulf Coast carbon sequestration research](#)



>7 tons
of carbon measured to date
in the marine life on and
around the RGV Reef.

>75 species
of marine organisms observed
in the man-made RGV Reef.

Water

Water is a fundamental societal, environmental and economic resource and we aim to use it responsibly. We operate in and around freshwater ecosystems throughout our liquids and natural gas pipelines and utilities operations, and in ocean ecosystems through the development of our gas gathering system and offshore wind farms. Our operational practices are focused on the protection of water quality, and we have extensive experience in protecting water resources when pipeline infrastructure crosses a waterway.

Water use in our pipeline operations

Our main reason for drawing water is hydrostatic pressure testing, a practice we use to test the integrity of our pipeline assets. Hydrostatic testing involves filling sections of pipe with water at high pressure and maintaining the pressure for a prescribed period to confirm that there are no leaks in the pipeline. The exact volume of water and location of withdrawal varies from year to year depending on our testing needs, which fluctuate according to the number of projects under construction and our overall integrity management requirements.

Most hydrostatic test water originates from surface water bodies or municipally sourced potable water. Prior to undertaking a hydrotest, we obtain required water withdrawal permits from local regulators and operate within the allocation limits of our permits. In areas where there is high water stress, our approach is managed by local regulatory bodies who issue water use permits. A negligible volume of water is consumed through hydrostatic testing. On average, more than 99% of the water used for this purpose is returned to its natural environment.

Our teams use detailed procedures to evaluate water quality prior to release to the environment or disposal. If the water can't be safely returned to the environment, we treat or dispose of it using approved methods following regulatory requirements where they exist. In

the absence of these requirements, we follow internal procedures based on best management practices.

Water use in gas development

As part of our recent acquisition of three U.S. gas utilities, we acquired Wexpro – a company that develops and produces natural gas and supplies it directly to Enbridge Gas Utah. In order to produce gas, we require large volumes of water for drilling and completion of wells. We are seeking to understand how Wexpro's operations change our corporate water use profile and their current efforts to optimize water use.

Water risk assessments

We use a combination of approaches to identify, assess and mitigate potential water risks across our operations. We take a lifecycle approach to managing the safety and design of our assets and assess water risks as part of an established enterprise risk management framework.

During project planning and operations, we conduct risk assessments using regional government databases that help identify higher-risk environmental features, such as municipal water intake locations and recharge areas for municipal drinking water supplies. The risk assessments also consider subsurface conditions, such as the depth of the groundwater table and proximity of regulated areas like floodplains to our project footprint. These aspects are important determinants for permitting requirements and mitigating water risks.

During our operations, primary risks include impacts to water quality and implications for marine wildlife and ecosystems as a result of spills. We invest in preventing spills and releases – including in or near watercourses and environmentally sensitive areas – through our asset integrity practices and emergency preparedness and response plans. Read more about our water crossing replacements on page 32.



Creating opportunities for biodiversity to grow

Industry practice for pipeline projects near waterways includes using hard armoring, such as rock riprap, to protect shorelines from erosion due to daily water flows and flooding. Historically, riprap was installed above typical water levels on the banks. While rock riprap is effective for stability, installing it too high on the riverbanks creates an unnatural ecosystem.

Recently, the Enbridge LP Projects team has been planting vegetation, such as plants and bushes, above typical water levels instead of using rock riprap to stabilize the soil and protect slopes from erosion. This method – known as “soft armoring” – helps maintain the natural landscape and supports local ecosystems by providing habitat for wildlife, while still providing the necessary protection for the pipeline. The roots of the vegetation help bind the soil, reducing the risk of erosion, while the plants absorb and slow down water flow, further protecting the banks from damage. Additionally, soft armoring can improve water quality by filtering pollutants and sediments from runoff before they enter waterways.

By promoting vegetation growth, soft armoring helps reduce erosion, minimizes impacts on the waterbody's life cycle, supports the ecosystem, and enhances the overall health of the environment. While we have only recently begun using soft armoring techniques, initial reports and site conditions are positive. Enbridge has used this practice at projects in Kansas (approximately 250 m² of soft armoring) and Missouri.

 [Keeping our good water quality is a passion](#)



Upstream impact: repurposing and reusing produced water

A conversation with **Paul Jibson**, Manager of Joint Operations & Regulatory Affairs, Wexpro Company/Enbridge and **Kasey Werkele**, Director of Operations, Wexpro Company/Enbridge



Kasey Werkele

Paul Jibson

Wexpro develops and produces gas reserves on behalf of our utility, Enbridge Gas Utah, and delivers natural gas at its cost of service under the terms of a comprehensive agreement. Wexpro's operations stretch from the northern tip of the Greater Green River Basin in Pinedale, Wyoming, through the Vermillion Basin of Wyoming and Colorado, down to the Uinta Basin of Utah.

Wexpro provides roughly 50% of our utilities' gas in the U.S. and the other half is bought on the market. One of the industry best practices it has adopted over the years is the recycling of the water associated with the production of natural gas, something it has been doing impactfully since 2020 in Wyoming. We spoke with Paul Jibson and Kasey Werkele for insights into the upstream business and how recycling water is making a difference.

Can you tell us about your operations and how the water you recycle is produced?

Wexpro operates more than 800 natural gas wells in Wyoming, Colorado and Utah, and has investments in about 600 other wells. We drill anywhere between 20 and 40 new natural gas wells a year. Each well produces natural gas for roughly 30 to 40 years, along with some associated condensate or oil. There's also some associated water produced in the process, called produced water. While this water is not hazardous, it is highly saline and we dispose of it in one of three ways: inject it back underground into formations that can contain this produced water; take it to evaporation or storage ponds; or store and reuse it, as we have been doing with some of this water since 2020.

When and why did you start reusing the produced water?

We started reusing the produced water for our drilling and completions associated with our new wells back in 2020 in Wyoming while looking for opportunities to reduce our freshwater use. When we drill or complete a new well, we pump water down into the well's reservoir to enhance the productivity of the formation. Prior to 2020, we had been purchasing fresh spring water from around our operating area to drill and complete the development of wells. Repurposing produced water has reduced our dependence on purchased spring water.

How is produced water moved and reused?

One of the ways we manage produced water disposal is by storing it in evaporation pond facilities. We have a few of these ponds in various fields, with the largest facility holding around 32 million gallons (778,000 barrels) of water. We decided to move that water from the evaporation ponds through water transfer lines to our well sites. In that first year in 2020, we pumped 100% of the water needed for well completions efforts from those produced water facilities. This year we recycled roughly 12 million gallons of produced water.

What benefits have you seen from water recycling?

Recycling the produced water for our drilling and completion work means not having to use as much fresh water, and that has had economic and environmental benefits. We haven't had to buy and use as much fresh water, which also reduced fresh water impacts in the area. We moved the produced water from our ponds to drilling sites through pipes – the longest stretch being around 16 km (11 miles). The use of pipes to transport water was a better alternative to using trucks because it reduces our transportation costs and also reduces our impact to wildlife and livestock.

What are your plans for the future?

We have been evaluating the use of a water treatment unit that would make the produced water suitable for dust abatement, irrigation for reclamation in the area (for which we currently buy fresh water) and other operational purposes. This has been a work in progress and we hope to make a breakthrough soon.

“Recycling the produced water for our drilling and completion operations results in us not having to use as much fresh water, and that has had significant economic and environmental benefits.”

Paul Jibson

Manager of Joint Operations & Regulatory Affairs, Wexpro Company/Enbridge

Non-GHG air emissions

Operating our gas and liquids pipeline network results in non-GHG air emissions associated with stationary combustion to move gas, and working and breathing losses on process vessels and tanks. Non-GHG air emissions – known as criteria air contaminants (CACs) – released from our facilities that meet the thresholds to be reported, include carbon monoxide, nitrogen oxides and volatile organic compounds. CACs released in smaller quantities, and therefore not reported, include sulfur dioxide and particulate matter. We report CACs by business unit in our [2024 Datasheet](#).

We operate in jurisdictions that have regulations to limit and report on air emissions. Our facilities have permits designed to prevent impacts to communities and ecosystems. During project siting, permit renewals and environmental assessments, we complete air dispersion modeling as required by local regulatory agencies. Facilities are managed and operated to comply with their regulated air quality requirements. We operate all our facilities to keep air emissions from our operations in line with regulations and guidelines designed to protect the environment and the health of local communities. We have established management programs that define our roles, responsibilities and timelines for managing and reporting emissions to government agencies in both Canada and the U.S.

Waste

Waste, if not managed properly, can have impacts on soil and water and can adversely impact plant, animal and human health. Minimizing waste and managing waste responsibly are important parts of reducing our environmental impact.

Waste is generated through the construction, operations, maintenance and decommissioning of our assets. Common types of waste from our assets and operations include construction debris, industrial waste and contaminated soil. We manage both hazardous and non-hazardous waste.

Reporting

We operate in jurisdictions where waste management is regulated and reporting is required by local regulators. Reporting requires proper testing, classification and management of the waste through our contracted waste vendors. Our environmental teams complete waste-related regulatory reporting following jurisdictional requirements. A centralized waste data repository is currently being evaluated to enhance timely and accurate reporting of our waste. The centralized system is expected to support the establishment of key performance indicators for waste minimization and allow for improved electronic data reporting.

Reduction

Waste minimization, source reduction and recycling offer both environmental and economic benefits. We follow all applicable regulations to manage waste from our operational activities. For our hazardous waste, we aim to reduce it whenever possible through treatment and recycling processes. Several jurisdictions require hazardous waste minimization reports, which are completed annually and help support operational activities to improve our waste management processes. For our non-hazardous waste, we look for opportunities to reuse or recycle construction materials, utilize recycled steel in construction projects and implement waste recycling and compost programs at our office locations, where possible. In our corporate office and several of our major office locations we recycle items such as paper, plastic, cans and batteries. We continue to seek practical opportunities to reduce waste from our offices and field operations.

Additionally, in 2024 our employee-led Green Teams undertook various initiatives to support environmental clean-up, recycling and waste reduction efforts.



Social

“Safety isn’t a one-and-done activity; it’s a 24/7, everyday commitment. It requires our attention and focus from the start of every day and every job right through to the last minute.”

Laura Sayavedra

Senior Vice President of Safety, Projects
and Chief Administrative Officer

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Employee and contractor safety

For everyone who works at Enbridge, safety is more than a core value – it is the foundation of everything we do. Every day, we are reminded of our responsibility and the importance of delivering energy safely because, every day, we deliver about 5.8 million barrels of crude oil and liquids and 20.5 billion cubic feet of natural gas across North America and operate and have under construction 37 renewable energy assets. We are dedicated to protecting the safety of our employees, contractors, communities and the environment.

We have more than 16,000 employees who work along our assets and in our facilities and offices to deliver energy safely and reliably across North America. We are committed to achieving zero incidents by making safety everyone’s responsibility. While leaders are accountable for safety performance, we believe everyone is responsible for working safely and striving for continuous improvement. We have set a goal of a 10% improvement in employee and contractor Total Recordable Incident Frequency (TRIF) over three years.

Enhancing our safety culture

Safety culture encompasses the everyday attitudes and beliefs that leaders and workers share about risk and safety. We foster a strong culture of safety for our employees and contractors by promoting key culture-building behaviors that everyone – regardless of function, role or level within our Company – can demonstrate. These behaviors include identifying hazards, taking immediate action, reporting safety incidents, committing to learning and leading by example. We consistently promote these behaviors and build them into our processes and the way we work.

More than 10,000 employees completed a survey in 2023 to measure the strength of our safety culture. The results provided insights into cultural strengths and opportunities for improvement. We used data gathered

through the safety culture survey to create action plans to drive improved safety performance and influence behaviors and mindsets. The action plans centered on three key themes: driving enhanced leadership and engagement, building competency for advancing our safety culture through training opportunities and new tools, and enhancing how we measure and monitor our safety culture.

Visible safety leadership

We have learned that when leaders reinforce and set expectations on safety, it significantly contributes to developing a positive safety culture. We encourage leaders to be physically present and engaged alongside employees to signal attention and care, consistently reinforcing safety as a top priority through their words and actions, continually scanning the environment for emerging safety issues and encouraging their teams to do the same, and taking timely action to address safety concerns, near misses and incidents.

Leadership training and engagement

Over the year, we developed a plan to refresh the safety training offerings for our people leaders, as part of our efforts to streamline programs and update safety training across the organization. The curriculum will be introduced in 2025 and has two components:

- **Onboarding:** A computer-based safety training for new leaders. The program includes topic-specific training developed for both enterprise and business-unit levels, access to an enhanced library of resources on improving safety and a post-training session with a Safety Advisor, their point of contact for support and guidance around safety leadership.
- **Sustainment:** This component of the curriculum includes a Leader Safety Forum – an annual virtual meeting that will serve as a refresher for reinforcing safety roles, sharing safety strategy and discussion about goals and important safety themes within

Our ergonomics program for drivers is in great form

Our efforts to improve driver comfort and safety have received award-winning results. Our GDS business unit was facing logistical and organizational difficulties in providing effective ergonomics support to its workforce who drive a fleet of more than 1,700 vehicles. Some drivers were experiencing discomfort or pain, and our fleet team and health services group were often being asked to make vehicle changes. Assessments by ergonomists required significant travel time and expense, and didn’t always result in actionable solutions.

To overcome these challenges, we created the three-tiered Driver Ergo Coach Program, which incorporates self-help, local coaching support (Ergo Coaches), and access to professional support as needed. Self-help for drivers includes resources, training, a driver ergonomics self-assessment form and a discomfort survey. Ergo

Coaches are employee volunteers who receive training and an orientation on the available resources. They become a front-line ergonomic triage team who can escalate issues for professional support at any time. With the Driver Ergo Coach Program, we are now able to provide faster support for employees, all with significantly reduced travel time and expense.

In the first year of the program in 2022, all field employees were offered assessments. Now, new employees and those assigned new vehicles are asked to complete a self-assessment and can request an Ergo Coach when needed.

This innovative program won two awards in 2024, including the Ergo Cup for “[Best Ergonomics Improvement Initiative](#)” from the Applied Ergonomics Society, and the silver award for the “[Best Ergonomics Program](#)” from OHS Canada.

the organization. The Leader Safety Forum will create the opportunity for two-way communication on our safety culture and safety performance through a yearlong communication campaign with leaders on key safety programs, strategies and leadership behaviors.

Psychological safety

We recognize that psychological safety is a key driver of a strong safety culture. Psychological safety is a shared belief held by members of a team that it is acceptable to speak up and admit mistakes without fear of negative consequences. The behaviors that mirror this belief include taking responsibility, admitting

errors, being able to have constructive discussions and solving problems creatively. We encourage our leaders to cultivate psychological safety by creating a culture where employees can speak without fearing backlash, treating incident investigations as opportunities to improve and recognizing employee reports of hazards or near-misses as positive contributions.

 **Learn more**
[Management approach: Health and safety Safety and Reliability Policy](#)

Improving our safety processes

One of our safety principles is “assessment and improvement are a must.” Across our operations, we strive to continuously improve our safety processes. Over the last year, we enhanced our practices by embracing new ways of assessing data, giving particular focus to the prevention of significant incidents and increasing the quality of our incident learnings.

Hazard assessments

A Field-Level Hazard Assessment (FLHA) is the process used by employees to identify existing and potential hazards, such as ergonomic and electrical hazards, before they start a task. Completing quality FLHAs sets us up to work safely and effectively. During the year, we conducted quality reviews on more than 3,500 FLHAs. We used the information gathered to provide coaching and direction on how to improve hazard assessments. We’ve identified a key opportunity to improve FLHA quality: increasing awareness of and focus on high-energy hazards that can cause serious injuries or fatalities.

Tracking serious incidents

Through our safety programs we work to prevent all safety events, but we strive to prevent serious safety events in particular. In addition to tracking the total recordable incident frequency – which includes all personal safety events, from low-severity injuries to high-severity injuries and fatalities – in January 2024, we introduced a new metric, serious incident frequency, that specifically tracks safety events that caused, or had the potential to cause, serious injury or fatality. This approach provides us with insights into the hazards of our work that could result in life-altering or life-ending injuries and leads us to dig deep into these events to learn from them and prevent future events that could lead to serious outcomes. As a result of our learnings, we are focusing on:

High-energy hazards

In our operations, high-energy hazards have the potential to cause serious injury or fatality. These hazards include any work that exposes an employee to more than 670 joules of physical energy. Such hazards include: working from a height (more than four feet above ground level), electrical (e.g., a high-tension wire), mechanical (e.g., a piece of heavy, moving equipment), gravitational (e.g., a suspended load), or a pressurized system (e.g., a gas pipeline). Our GDS business unit piloted a serious injury or fatality assessment program, which included identifying high-energy hazards and determining if we have direct controls for each of those hazards. A direct control requires a barrier that is specifically targeted to the high-energy source, effectively mitigates exposure to the high-energy source when installed, verified and used properly, and is effective even if there is an unintentional human error during work.

Driving safety

The volume of driving-related incidents we experience and their potential to cause serious injury have brought driving safety to the forefront. Our employees collectively drove more than 135 million km (63 million miles) over the course of the year. To improve driving safety, we’ve conducted driving training, focused on driver ergonomics through a coaching program and conducted communication campaigns that promote safe driving practices among employees. In 2024, we also developed and started implementing a three-year driving improvement plan for employees and contractors that will include refining the use of telematics reports to assess driving behaviors such as speeding, hard braking and hard cornering. We plan to develop resources to support leaders in their conversations as they coach their employees in safe driving.

Quality incident investigation

We strive to be transparent, proactive and quick to incorporate learnings from incidents. We aim to be a learning organization and work hard to bring consistency and quality to our incident investigation – or event analysis – after an incident. Each of our business units has an event analysis process to understand why unplanned events occur, learn from them to prevent reoccurrence and make improvements to our physical, administrative and control systems to make us safer over time. To maintain quality event analysis and learning outcomes, we use assurance activities to assess the effectiveness of our event analysis.

 More than
3,500
quality reviews conducted
on our field-level hazard
assessments in 2024



Drive-through parking convenience improves safety

A dedicated team from Enbridge's GTM operations in North Central Region of the U.S. has been remodeling parking lots to allow for pull-through parking.

The team has helped deliver driving safety training across the region, but found that parking lots and laneways at some facilities were more susceptible to low-speed, low-impact incidents, particularly while backing up. To remedy this, in addition to driver training and engagement, the team has been looking to modify parking lots to enable vehicles to drive through without ever needing to back up.

“It’s been ingrained in us in the East Texas system, that back-in parking was preferred,” said Henry Reese, a co-chair of the Motor Vehicle Incident Team. “Back-in parking may be safer than nose-in parking, but pull-through is even safer,” he added.

“We’re looking at the facilities and creating drive-through options, where it’s feasible,” said Henry, adding that some changes have already been put in place.

The team has expanded the parking area at Accident Station in Maryland and made changes at the facilities in Bechtelsville and Bernville in Pennsylvania. Work is also currently in progress at the Marietta station in Georgia.

Focus on contractor safety

Our contractors are an essential part of our workforce, often supporting construction-related work and other high-risk activities associated with the maintenance, inspection and repair of pipelines, operating facilities and related infrastructure. We require our contractors to operate in alignment with our commitment to safety and to do their part to help us achieve best-in-class safety performance.

Contractor engagement

Our employees work alongside individual contractors who are part of Enbridge. For many projects, we also work with contracted companies, which are third parties that do work on our behalf. We prioritize working with contracted companies with a solid track record of safe practices.

To support contractor safety, in September we brought together some of our larger U.S. contractors for a two-day safety event in Minneapolis. During the event we collaborated on safety, shared feedback and best practices, and discussed opportunities for improvement. We shared our vision on contractor safety and sought contractor feedback on what worked well and how we could help improve safety performance. The discussion identified two areas of focus: high-energy hazards and effective engagement with sub-contractors and new workers to keep them safe while they gain experience and skills.

Learning from significant incidents

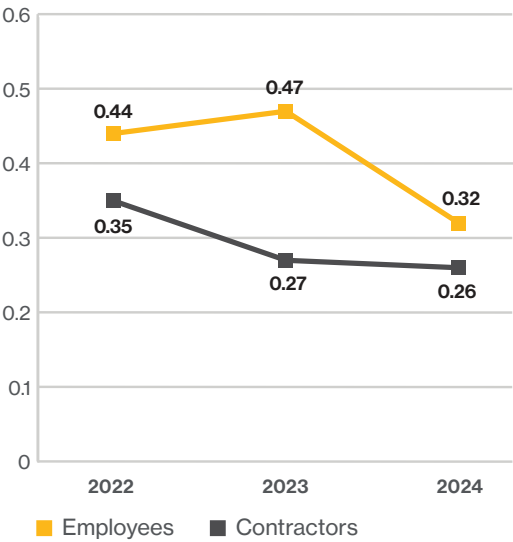
Despite our focus on safety, we encountered one contractor fatality. In July, an Ontario-based worker employed by one of our contractors lost his life while doing excavation work. We initiated an immediate safety stand-down and then followed a return-to-work plan with the contractor. We conducted a thorough incident analysis and communicated our learnings with the contractor and within Enbridge.

Employee and contractor safety performance

Safety is Enbridge's top value. We understand the need for relentless vigilance and focus to ensure the continued safety and reliability of our operations. To maintain a strong and continued focus on safety, our safety performance metrics directly impact not only executive compensation, but every employee's incentive pay. In 2024, we achieved a 23% reduction in the TRIF among employees and contractors (excluding U.S. utility employees and contractors), surpassing the three-year average and exceeding our goal of 10% improvement in TRIF target.

Total recordable incident frequency

(incidents per 200,000 hours worked)¹



¹ Excludes U.S. gas utilities employees and contractors.

² Includes U.S. gas utilities employees only.

U.S. gas utilities employee total recordable incident frequency

(since date(s) of Enbridge operatorship)²

Enbridge Gas Ohio	0.57
Enbridge Gas Utah, Wyoming, Idaho and Wexpro	1.32
Enbridge Gas North Carolina	1



Our people and culture

Our people are fundamental to our success. We are dedicated to implementing programs and policies that demonstrate our focus on the overall well-being of our employees — addressing their mental, physical, financial and social needs. This dedication aligns with our broader investment in initiatives that set us apart as an employer of choice while positioning us to fulfill our purpose, achieve our business strategy and deliver on our performance goals.

The foundation of our success lies in the common ground we share as a team, including the work we collaborate on, the methods and principles that guide our work, and the purpose and motivation that drive our work. We strive to engage our employees around these elements which unite us in achieving our goals.

Strong people policies

Key policies underpinning our talent strategies and approach to inclusion and human rights include our: Statement on Business Conduct; Equal Employment Opportunity Policy; Sustainability Policy; and Respectful Workplace, Harassment and Violence Policy. These policies help us by guiding our behavior within the workplace, contributing to a safe, inclusive workplace where our people can thrive, and creating a comprehensive framework for excellence in talent management and ethical business practices.



IRAP Pillar 1:
People, employment and education

Well-being

We recognize the importance of creating space for individuals to reflect on and care for their mental health and wellness, and fostering a supportive environment for all. Working together to support employee well-being today will help our organization and people get to where we want to be tomorrow. Well-being helps us build organizational resilience and supporting the physical, mental, financial and social well-being of

our employees helps them achieve success at home, work and in the community. Well-being is embedded in our culture through initiatives that focus on building competencies and creating a respectful workplace, and is directly promoted through our Wellness Program, our incentive and benefits program and a strong focus on mental health.

A holistic approach to wellness

The purpose of our wellness and benefits programs is to support the well-being of our employees and their families. Our Wellness Program provides up to \$350 in after-tax dollars annually to encourage employees to complete activities that support their physical, mental, social and financial well-being. These activities include health assessments, goal-setting tools and resources, such as health coaching, that help employees identify and address their well-being priorities. We conduct quarterly campaigns to increase awareness and encourage the use of benefits, resources and programs such as free financial planning services, counselling, volunteer opportunities and participation in inclusion networks within the organization.

We periodically review and adjust our programs based on newly available offerings and employee feedback. A few ways we are advancing employee well-being include:

- **Employee and Family Assistance Program:** This program provides employees with access to confidential counselling and wellness resources. Following employee feedback, we worked with our vendor to provide one company-wide number to access immediate and confidential support from Canada or the U.S.

- **Higher education support:** We are expanding our higher education awards program beyond undergraduate degrees, to now support individuals seeking careers in trades by including apprenticeship and trade certification programs. Eligible students can receive up to \$1,000 per year.
- **Ergonomics support:** We engaged employees in an Office and Vehicle Ergonomics Self-Assessment Challenge to help drive a focus on prevention and early intervention for musculoskeletal disorders.

Focus on mental health

Our Mental Health Foundational Program provides helpful resources for employees to proactively evaluate their mental health and help overcome the societal stigma often associated with mental illness. The program consists of three 20-minute modules that educate employees, highlight support resources and provide guidance on how to seek or offer help to others. The modules show employees how to use the mental health continuum model, which helps identify – and subsequently remedy – negative changes. At the end of the year, 72% of our employees had completed the program.

To embed learnings from the Mental Health Foundational Program into our everyday lives, we launched mental health check-ins in 2024. Check-ins elevate self-awareness, drive positive behavioral changes and result in employees seeking support early for identified declines in well-being.

Programs and compensation benefits

Learn more about the various programs and compensation benefits we provide to our employees:

- [Benefits](#)
- [Career development](#)
- [Employee well-being](#)
- [FlexWork Program](#)
- [Parental Leave Policy](#)



Learn more

- [Management approach: People practices](#)
- [Our Statement on Business Conduct](#)
- [Equal Employment Opportunity Policy](#)
- [Indigenous Peoples Policy](#)
- [Sustainability Policy](#)

Workforce inclusion

We know we are better together and we recognize that our differences are our greatest strength. The collective backgrounds, abilities and perspectives of our people make us more innovative and dynamic. We are holding ourselves accountable for being a company people aspire to work for and where everyone feels welcome, valued and respected.

Our strategy

Our Inclusion Strategy guides us as we continue to build a high-performing workplace that fosters a sense of belonging. The strategy includes actions designed to move us towards our vision of a connected workplace and achievement of our business goals. Stewarded by an Executive Sponsor Council and supported by an internal team, the three main goals of our Inclusion Strategy are to:

- **Engage and empower employees:** We engage our workforce through an advisory network and employee resource groups (ERGs), increasing awareness and empathy through employee listening and storytelling, investing in learning programs to build knowledge of core concepts, and establishing strategic external partnerships.
- **Embed equal opportunity:** We embed equal opportunity-focused policies and practices, implementing best practices in human resources programs and maintaining compliance with all applicable legislation, laws and regulations.
- **Elevate talent:** We seek to understand our workforce and develop our hiring practices and talent programs to support equal opportunity employment.

Our current Inclusion Strategy was implemented in 2021 and concludes in 2025. This strategy will be refreshed in 2025 to set our strategic priorities for future years.

Measuring our workforce

Our Inclusion Dashboard provides everyone at Enbridge with access to employee demographic data. This data is collected on a voluntary, self-reported basis (exclusive of gender) across the enterprise. The dashboard is updated quarterly and allows users to filter data by job level, function and geography to see hiring, promotion and turnover rates.

Enhancing inclusion

We empower our employees to create a respectful and welcoming workplace primarily through our employee resource groups (ERGs). ERGs are employee-led, and company-sponsored groups open to all employees that promote understanding, support employee populations in our Company and create development opportunities for members and allies through events and networks. We have nine ERGs, and since their inception there has been opportunities to collaborate with members of our Board to further our Inclusion Strategy. In August, we conducted our first-ever enterprise-wide ERG Week. The event helped elevate awareness of the various ERGs across Enbridge and promoted our core value of Inclusion. Employees got the chance to meet ERG leaders and colleagues and were inspired to join.



Creating opportunities for U.S. veterans

Enbridge was honored with the Best for Vets Award in November 2024. Given by Military Times, this award acknowledges our efforts in creating an inclusive environment for veterans, providing them with opportunities for career growth and leveraging their unique skills and experiences.

This award ranked us as an employer at #2 in the energy industry and #2 in Texas, U.S. It is a testament to our commitment to supporting veterans in the workforce, our reputation as a veteran-friendly employer and our dedication to promoting an equitable workplace.



Listen to the [podcast](#) to hear Michael Sittler speak about his military career, transition to civilian employment, and why Enbridge is a great place for veterans to build a lasting career.



Supporting veterans' careers

Micheal Sittler, Enbridge's Director, Accounts Payable and Source to Pay, is an Air Force veteran passionate about helping veterans with their career growth. Leveraging his 11 years of active duty in the U.S. Air Force in medical logistics, Micheal pivoted into supply chain, working a number of roles before joining Enbridge in 2015.

Using his career experiences, Micheal helped to establish Enbridge's Veteran Talent Resource Network (VTRN), an employee resource group focused on supporting veterans and veteran spouses. For the past nine years, the VTRN has worked to promote and improve veteran recruitment and inclusion at Enbridge, raise awareness about the unique and transferable skills that veterans and their spouses bring to the workforce, and conduct community outreach supporting veterans in the communities where Enbridge operates. Through the VTRN, Micheal mentors veterans in their career transitions. "The veterans I talk to are motivated by the work we're doing in this space and their ability to be involved," says Micheal. "I appreciate the camaraderie and teamwork in Enbridge's culture and their commitment to veteran inclusion."

Advancing inclusion

Inclusion is a core value at Enbridge. We strive to foster an inclusive environment where everyone's contributions are recognized and valued. Below are some activities from the past year to foster an inclusive environment:

- On International Women's Day, we held a panel discussion at our Calgary office with two of our female Board Directors who shared stories about their career journeys and responded to questions about career and leadership. Read more about this "fireside chat" on page 62.
- On Juneteenth this year, we sought to empower employees through a better understanding of history. We hosted an event called "Juneteenth: Are We There Yet?" virtually and in-person for our Houston employees, featuring the renowned historian, philanthropist and art collector Bernard Kinsey. We encouraged attendees to visit the Kinsey Collection at the Holocaust Museum Houston, which showcases many of the historical achievements and contributions of African Americans.
- As a result of feedback provided by our Indigenous colleagues, starting in 2024, we offered additional flexibility for all employees to access time off for cultural purposes. Read more about our Indigenous talent attraction and recruitment on page 52.
- We held a Pride at Work Industry Roundtable in Edmonton, Alberta in August. This employer roundtable, co-chaired by Pride at Work Canada and Enbridge, brought together more than 20 industry leaders to discuss strategies on advancing 2SLGBTQ+ inclusion in workplaces.

- We partnered with Specialisterne in Canada, a not-for-profit organization specializing in recruiting highly qualified neurodiverse people. Through this collaboration, we aim to tap into the unique skills and perspectives of neurodiverse individuals to drive innovation and business value.
- We continue to be supported by our Enbridge Ezone Concierge team that maintains our communal kitchens, rest areas, boardrooms and copy rooms on each floor. This team of five was hired through a program that employs, trains and supports people with developmental disabilities. The program has run successfully for 10 years in Calgary and 13 years in Edmonton.
- We conducted targeted recruitment through external partners such as the U.S. Department of Defense's SkillBridge Program and the USO's Military Virtual Programming transition program. Partnering with these initiatives helped us identify and attract veterans with Enbridge-specific skill sets.
- We hosted the Women Veterans Engage conference in Nashville, Tennessee. The goal of this conference was to equip, inspire and connect women veterans, and to provide them with the tools, confidence and network to thrive in their personal and professional lives.



Women in operations: ‘The sky is the limit’

Michelle Furlong is Enbridge's Westcoast Transmission South operations manager in British Columbia – the region's first female area manager in history, in fact. "Field operations positions have been held by men, traditionally, so bringing some variety into these roles helps strengthen the teams. It brings in a different perspective," she says.

Michelle holds a Bachelor of Science degree, but further training and education led her to a career in operations. "There are so many different ways that you can grow and take your career in this organization," she says. "If you have the drive and determination, they will meet you halfway – and the sky is really the limit."

 [Women in operations: The sky is really the limit](#)

Learning, leadership and culture

At Enbridge, developing and retaining our highly capable people is a priority. Our success stems from the innovative ideas people bring forward, and we strive to create a rewarding workplace where people can build meaningful careers. We support continual learning and development by providing a variety of on-demand resources, employee learning programs and leadership development to fuel individual, leader and team growth.

Building high-performing teams

We believe our success is shaped by inspiring leaders, innovative individuals and high-performing teams. One of our core values, High Performance, emphasizes choosing simplicity over complexity, enabling us to be more agile and better positioned to achieve our business goals. High-performing teams have the desire and capability to exceed organizational goals and objectives. To foster high performance, we offer team effectiveness assessments, leader toolkits and resources to build strong, united and engaged teams.

Our culture focus

Over the past year, we've identified the culture we aim to create and the mindsets and behaviors needed to achieve it. Culture is felt and experienced daily; it reflects who we are, what we care about and how we work together. As Enbridge continues to grow and evolve, we are intentionally shaping a culture that aligns with our strategy and goals, setting us up for sustained success. Our desired culture enables us to make quicker decisions, focuses us on the right work by simplifying processes and focuses our team on high-value tasks.

Our culture is defined by three focus areas:

- **Deepen connections:** Come together to efficiently deliver results
- **Drive results:** Continue to deliver and beat market expectations
- **Embrace learning:** Innovate and grow to maintain competitive edge

Refreshing our learning and leadership programs

In support of our new culture focus areas, we have implemented a new Learning, Leadership and Culture Strategy. This new strategy builds on work initiated in 2024 to refresh our learning and leadership programs and provide greater accessibility, scalability and choice for employees and leaders.

There are additional options for on-demand digital, flexible learning for any employee who wants to take control of their learning journey. The topics available through our on-demand learning options are virtually endless, with training recommendations based on the employee's goals. Virtual courses bring together employees and leaders across the company for shared learning on key skills and mindsets. Our new suite of programs was completely redesigned based on evaluations and employee feedback to include targeted offerings based on career stage rather than organizational hierarchy, including:

- **Individual contributors – Essentials:** A broad range of elective on-demand courses, virtual workshops and self-study materials to enhance skills with content designed to enhance personal and professional development.



We develop high-performing teams and help people be their best

To build understanding and empower Enbridge's leaders and aspiring leaders, we offer a series of speaker sessions on a variety of inspiring topics. Our Leader Learning Series comprises of quarterly sessions led by Enbridge leaders, focusing on specific skills, mindsets or behaviors.

- **Aspiring leaders – Aspire:** A self-directed path consisting of on-demand learning to prepare individual contributors interested in people leadership. Read more on the next page.
- **New leaders (<1 year) – LEAD Foundations:** An introduction to core leadership skills and practices to build leader capacity.
- **Developing leaders (1 – 4 years) – LEAD Elevate:** Dives deeper into key leadership concepts to align goals, build effective teams and deliver results.
- **Experienced leaders (5+ years) – LEAD Excel:** Provides exposure to advanced leadership strategies to manage stakeholder expectations and deliver results through a team within a dynamic environment.

Recent topics have included “Aligning Goals” which explored how to foster collaboration, clarity and purpose in goal setting across teams and “Ownership and Outcome-Focused Mindsets” designed to empower personal responsibility and focus attention on actions that deliver more value.

These sessions provide practical insights to help attendees:

- Deepen their ability to connect their team's work to Enbridge's collective purpose and share in organizational success.
- Enhance alignment by ensuring individual contributions support shared business goals and outcomes.
- Prioritize effectively by leveraging strategies to focus people, time and financial resources on the highest-value opportunities.
- Drive cultural shifts that reinforce our mission, vision and values while sustaining and unlocking value for the organization.

- **Coaching for selected groups:**
 - **Coaching Capability:** Offers advanced coaching practices to enable meaningful conversations and help leaders become more coach-like in their interactions.
 - **Coach Access:** One-on-one partnership with a certified coach to enhance personal development. Read more on the next page.

As part of the refresh of our learning and leadership programs and in response to employee feedback, we fully redesigned two offerings: our Aspire and Coaching programs.

Supporting aspiring leaders

Our Aspire Program is an open enrollment offering designed for individual contributors (those without direct reports) who are seeking opportunities to influence others and prepare for future leadership roles. The self-paced, eight-module program equips individuals with essential skills and practical tools to lead effectively, influence teams and drive impactful results. Modules range from 30 to 120 minutes in duration, providing maximum flexibility for participants to learn at their own pace. There is no specified order for completing the courses, allowing individuals to start with any module that aligns with their current learning and development needs. Program participants are encouraged to engage in partnerships with other aspiring leaders and complete the program alongside a peer to support each another through the learning process and hold each other accountable. Built upon our success factors and skills, the Aspire Program provides a strong foundation in leadership principles, emotional intelligence, feedback, coaching and project management, preparing aspiring leaders for their leadership journey.

Empowering individuals through coaching

In 2024, we piloted a new coaching program, to expand our existing one-on-one coaching offering. Traditionally, coaching was available to select director and vice-president level employees. The pilot expanded access to 108 supervisors, managers and individual contributors at equivalent levels. Participants selected external certified coaches to enhance their personal development with unlimited coaching over a four-month period. After receiving positive feedback on the pilot, we decided to continue offering the expanded coaching services and have since increased the number of experiences available. Selected participants have access to unlimited coaching sessions each month and are encouraged to meet with their coach at least twice per month to maximize the value of the experience.

235+ hours of transformational coaching

92.3% of participants believe the program will enable them to be a more effective leader

92% of participants reported coaching has enabled them to gain different perspectives



A path to workforce re-entry

Re-entering the workforce after an extended break can often be difficult. The longer an individual is away from the workforce, the more challenging it can be to get back in. To offer a path for re-entry, our LP Canada business began piloting our Career Re-Entry Program in 2023. The program is designed as a part-time, temporary opportunity to enable a gradual return to a working environment following a prolonged career pause.

“What’s fantastic about this program is that there is no downside,” said Stephanie Raill, LP Inclusion Projects Lead. “From a business perspective, Enbridge gets to tap into an overlooked demographic of talented professionals. People leaders get time to evaluate new employees and teams get a new colleague who is willing and able to help support the work. For candidates, the structured return process – part-time for a minimum of nine months – gives them time to get back into a routine, helps build their confidence and, most importantly, gives them recent work experience that they can now put on their resume.”

The re-entry program helps elevate our industry and eliminate the stigma often associated with career breaks.

Indigenous engagement

Enbridge is committed to respectful and productive engagement and collaboration with Indigenous Peoples. Our extensive relationships with Indigenous groups span our operations across North America – we engage with more than 300 Indigenous nations and groups in Canada and 30 federally recognized Native American Tribes in the U.S. We seek to build lasting and respectful relationships. While we have worked to expand Indigenous inclusion within our projects and operations and across our Company, we recognize that there is more work to do.



IRAP Pillar 1:
People, employment and education

IRAP Pillar 2:
Community engagement and relationships

IRAP Pillar 3:
Economic inclusion and partnerships

Advancing reconciliation

Our first Indigenous Reconciliation Action Plan (IRAP), was published in 2022 and by the end of 2024 we had met 12 of the 22 commitments. Over the past year, in conjunction with input from Indigenous groups, our IRAP working group, Indigenous Advisory Group (IAG), employees and our Executive Leadership Team, we renewed or refreshed some of our 2022 commitments to continue our work in these areas. Our [2025 IRAP Refresh](#) offers us a chance to reflect, review and renew our focus on both individual and collective efforts to advance truth and reconciliation.

The refreshed IRAP includes 20 commitments under its six pillars which serve as a roadmap for our journey towards reconciliation and underscore our desire to be both transparent and accountable. The following pages highlight some of the programs and achievements over the past year. While we have made progress, we recognize that we still have work to do. For a detailed account of our progress, see page 98.

Seeking Indigenous perspectives

Since the formation of the IAG in 2023, our leaders have met with the group of external Indigenous leaders quarterly in keeping with our IRAP commitments. This engagement provides our leadership with input from the IAG on cultural perspectives and guidance on business decisions that may impact people and communities where we live and work. The IAG consists of seven Indigenous leaders from across our operating regions in the U.S. and Canada. In June 2024, the IAG met with our Board of Directors and the Executive Leadership Team. The IAG reviewed and provided input into our recent IRAP refresh. The IAG also met with our SVP Reconciliation Steering Committee to review specific case studies, advance our Indigenous employment program and discuss ways to approach communities where we plan to build assets.



Robert, a White Earth Tribal band member and an Enbridge Tribal liaison shares his perspective: [It's ok to search your heart and change your mind](#)



Learn more
[Indigenous Peoples Policy](#)
[Indigenous Reconciliation Action Plan](#)
[Management approach: Indigenous engagement and inclusion](#)



W̓q̓chiigii: a tribute to the land and its people

A proposed compressor station near Taylor in British Columbia, Canada, will be called CS-1B W̓q̓chiigii in honor of Indigenous communities in the area. W̓q̓chiigii – pronounced “whoa-chee-gee” – means Peace River in the Dane-zaa, or Beaver, language. The name was chosen by the Doig River First Nation after engaging with Enbridge on a proposed natural gas expansion project, the Aspen Point Program.

CS-1B W̓q̓chiigii honors the cultural heritage and traditions of Indigenous communities in the area, and symbolizes our commitment to building a stronger relationship with Indigenous groups across the province.

“It is the first time across the organization that we’ve given one of our assets an Indigenous name,” said Steve Elliott, Enbridge’s vice president of Canadian gas transmission.

Doig River First Nation Chief Trevor Makadahay – along with Elliott and project lead Dave Challoner – led a ribbon-cutting ceremony unveiling CS-1B W̓q̓chiigii at the Doig River First Nation community in September. The compressor station is part of an expansion of our Westcoast natural gas pipeline system in British Columbia. Construction for the project will start in 2025.



[Doig River does trust Enbridge. It's earned.](#)

Increasing Indigenous awareness

At the end of 2024, nearly all of our employees had taken Indigenous cultural awareness training. It is important that our employees and contractors who work directly with Indigenous communities understand, respect and appreciate Indigenous history and culture.

Talent attraction and recruiting

We're taking several steps to improve Indigenous inclusion in our permanent workforce.¹ The Indigenous Employment Plan implemented this past year takes into account cultural considerations, work experience and regional considerations.

We strive to make our workplace attractive to Indigenous talent through flexible work placements and opportunities across Canada and the U.S. We also continue to engage with post-secondary institutions and urban Indigenous recruitment partners to promote Indigenous recruitment, and host listening sessions with Indigenous employees to hear feedback on various initiatives. In 2024, we:

- Attended 12 Indigenous-focused career fairs.
- Held listening sessions which resulted in direct feedback into our Indigenous Employment Plan and adjusted an existing leave program to allow Indigenous employees leave for cultural purposes.

Capacity building

We believe that the communities where we live and operate should benefit from our presence. We allocate funds to build community capacity and support well-being. We have provided more than \$41 million to Indigenous groups across North America. This takes us further along our journey to meet our spend commitment of \$80 million over the 2022 – 27 period for community well-being, capacity building and initiatives that honor Indigenous Peoples and cultures. A few examples of the initiatives we supported this year include:

- Donated laptops in the Northwest Territories for a Youth Drop-In Center.
- Gave bursaries to 10 high school students in Eastern Canada to assist in continuing their education.
- Hosted a science, technology, engineering and mathematics (STEM) event for Indigenous girls in Ontario where students learned about our liquids pipelines and renewable projects located in the province.
- Donated six fleet vehicles across four Indigenous communities in northern Canada, as well as an SUV in Alberta, that the fire hall and public works department use for daily community needs.
- Donated funds to a community in Quebec to support the purchase and outfitting of an emergency response trailer. It also provided funding to six additional First Nations to support fire emergency equipment needs.
- Equipped the Federal Dam Fire Department with new SCBA (self-contained breathing apparatus) equipment and safety lighting to better respond to emergency calls. This volunteer fire department serves one of the most remote areas in northern Minnesota.

- Donated funding to [The Forge](#) to purchase three new Millermatic 255 welding units to expand their program's training scope. The Forge is utilized to provide a hands-on opportunity for students to explore a career in welding.
- Donated funding towards the purchase of a new elementary school bus.

Lifecycle engagement

We engage with Indigenous groups, governments, landowners and communities living near our projects and operations in Canada and the U.S. Our Indigenous Lifecycle Engagement Framework sets out the guidelines for our engagement from design to decommissioning. An Executive Steering Committee oversees the framework's implementation, which outlines three types of engagement:

- Direct engagement focuses on communities proximate to our infrastructure.
- Regional engagement includes Indigenous nations, governments and groups located in geographic proximity to one another. It focuses on establishing opportunities for regional dialogue and collaboration around critical issues.
- Landscape-level engagement captures engagement with Indigenous groups outside our projects and operations on topics relevant to Indigenous communities and our business.

Some of the ways we engage include in-person meetings, roundtables, open houses, tours of our facilities and Indigenous inclusion in our supply chain.



Photo courtesy Steven Tchir

Respecting traditional practices

Our approach to Indigenous relations aims to recognize and respect the history, uniqueness and diversity of Indigenous Peoples. The protection and honoring of animals and bird species is an important practice and value for Indigenous communities. Enbridge respects this tradition and actively seeks out collaborative stewardship opportunities in communities where it works.

In July 2024, we collaborated with the Alberta Society for Injured Birds of Prey and Alexis Nakota Sioux Nation to release a rehabilitated eagle back into the wild at a Pow Wow – a gathering that celebrates Indigenous culture through song, dance, food and art.

More than 500 people, including Indigenous leaders and community members, gathered at the venue to watch the eagle being released. Enbridge's Community and Indigenous Engagement team worked with the Nation to ensure the eagle release respected Nakota culture and traditions.

¹ Hiring undertaken in accordance with federal, state and local laws.

**Sustainability
in Action**

Learning from each other: Enbridge hosts Tribal leaders in Oklahoma

Our pipelines cross many Tribal lands. Engagement activities with Tribal Nations provide an opportunity for representatives from these communities to visit our terminal and see first-hand our commitment to safe operations.

In October, our Cushing Terminal in Oklahoma – a major hub for Enbridge’s Liquids Pipeline business unit – hosted 36 Tribal leaders from 10 Tribal Nations across the U.S. for a tour of the terminal to understand how we operate. The Cushing Terminal is located entirely within the Sac and Fox First Nation Reservation, whose leaders were also present for the tour.

“This event is important in terms of education, not only for leaders but for our people,” said Audrey Rose Lee, Sac and Fox Nation Second Chief. “When we hear about Enbridge, people will often have misconceptions – thinking that Enbridge is a drilling company, for example. Tours like this help to create a better understanding of what Enbridge does in an open and helpful way. This shows a willingness from both Tribal Nations and Enbridge to learn from each other and teach each other.”

Our local operations leaders Caryn Campbell, Southwest Regional Director, and Joshua Cuellar, Cushing Area Manager, gave presentations at the beginning of the tour. “It’s pivotal that we create lasting relationships with Tribal leaders where we operate and explain the benefits of our industry, while listening and addressing their concerns,” said Cuellar.

The Tribal leaders toured the Cushing facility, learning about the assets, asset maintenance, the complexity of the Cushing terminal and its importance for Enbridge, the energy industry and energy security for the U.S.

Tribal leaders also heard from Jennifer Smith, U.S. Tribal Engagement Director, about our Indigenous Reconciliation Action Plan and our approach to Tribal engagement. Tom Schwartz, Senior Vice President, LP Strategic Projects and Partnerships, talked about our strategic Indigenous partnerships in North America. “Equity partnerships with our Indigenous stakeholders are a real game changer arising from our Indigenous Reconciliation Action Plan. This approach takes lifecycle engagement (community engagement over the lifecycle of our assets) to a new level by including Indigenous partners in the early stages of greenfield projects as well as bringing them into our existing assets where possible,” he said.

Cushing Terminal is the world’s largest crude oil facility, a vital transshipment point and the most significant trading hub for North American crude. This tour was a great opportunity for all parties to build relationships and get to know and learn from each other.



Economic inclusion and partnerships

We work with Indigenous Peoples to create opportunities to be included in socioeconomic benefits resulting from our projects and operations. These may include partnerships and opportunities in training and education, employment, procurement, equity participation, business development and community development.

Indigenous procurement

In 2023, we announced an external procurement target of \$1 billion – in addition to the \$2 billion already spent – in cumulative Indigenous spend by 2030. At the end of 2024, we have spent \$757 million. Our focus on Indigenous procurement includes efforts to support Indigenous contractors to work on higher-value construction projects (read more on page 69).

To create opportunities for Indigenous businesses to participate in our supply chain, we are exploring ways to remove contracting barriers. We’re advancing this commitment by conducting additional information sessions for businesses on how to participate in our supply chain, supporting businesses that are navigating our procurement system and reviewing contracting payment mechanisms and processes to increase participation and positive outcomes for Indigenous businesses.

To support Indigenous businesses looking to participate in our supply chain, in 2024:

- We hosted two in-person Tribal Business Summits in the U.S. for our Line 5 Tunnel Project in Michigan. These summits were crucial in our efforts to work with Tribes and Tribal-owned businesses for products and services needed to build the tunnel. One of the summits also included an open house for the public at the Enbridge Information Center in St. Ignace, which drew more than 60 guests.
- We were a large sponsor at a gathering business summit in Choctaw Nation in Durant, Oklahoma, hosted by the American Indian Chamber of Commerce of Oklahoma. We spoke with many businesses across the Southwest Region and developed new Tribal supplier connections.
- We hosted several online events targeting Indigenous businesses. This included three online business information sessions for prospective suppliers in North America. More than 100 Indigenous businesses attended these sessions.

Indigenous partnerships

Enbridge continues to explore and establish Indigenous financial and equity partnerships which give the Company a chance to align its interests with Indigenous groups and encourage economic inclusion. Over the years, we’ve partnered with several Indigenous businesses including the Mandan, Hidatsa and Arikara Nation of North Dakota, Athabasca Indigenous Investments in Alberta and five proximate Indigenous communities for the Wabamun Hub. We recently announced a new partnership with six First Nations and Métis communities to build a 200-megawatt wind energy project in Saskatchewan.

Winds of change in Saskatchewan

Enbridge is proposing to build a 200-megawatt wind energy project in Saskatchewan in partnership with six First Nations and Métis communities. Announced in 2024, the [Seven Stars Energy Project](#) provides Indigenous partners the opportunity, collectively, to acquire at least 30% equity ownership. The project is supported in part by a loan guarantee of up to \$100 million from the Saskatchewan Indigenous Investment Finance Corporation. We plan to develop, build and operate the project in partnership with Cowessess First Nation, George Gordon First Nation, Kahkewistahaw First Nation, Métis Nation-Saskatchewan, Pasqua First Nation, and White Bear First Nations – together called Six Nations Energy Development Limited Partnership (or Six Nations).

“This is a game changer for the Indigenous Nations, Métis and First Nations,” said Chief Matthew Peigan of Pasqua First Nation. “This Project will provide a stable source of revenue that will benefit our people for many years to come. We are pleased Enbridge sees that meaningful Indigenous ownership is the way to build energy infrastructure in this country and we look forward to developing this Project together.”

Once operational in 2027, the facility will provide renewable electricity to the provincial grid, powering Saskatchewan homes over its anticipated 30-year lifespan.

Enbridge views these partnerships as a model for inclusive energy development, aligning with our commitment to sustainability and Indigenous reconciliation. The collaborations reflect a shared vision for responsible resource development that benefits all stakeholders while respecting Indigenous rights and traditional territories. Learn more about our focus on economic inclusion and partnerships in our [IRAP Refresh](#).

 **Learn more**
[Seven Stars supporters are speaking up](#)
[First Nations historic investment in BC natural gas system](#)

Historic BC natural gas investment

On May 15, 2025, Enbridge announced another [landmark step toward economic reconciliation](#) as the Stonlasec8 Indigenous Alliance Limited Partnership, which represents 36 First Nations in B.C., announced plans to make a \$715 million investment to acquire a 12.5% interest in our Westcoast natural gas pipeline system. The investment, supported by a \$400 million loan guarantee from the Canada Indigenous Loan Guarantee Program, marks one of the largest Indigenous energy partnerships in North America.

“Our Westcoast system is a critical piece of energy infrastructure that has been providing people with the energy they need for more than 65 years,” said Cynthia Hansen, Enbridge’s Executive Vice President and President of Gas Transmission and Midstream. “This transaction builds on our existing relationships with Indigenous communities and helps advance reconciliation.”

“Enbridge’s Westcoast pipeline system is a legacy asset that has operated within our traditional territories for over 65 years,” said Chief David Jimmie, President and Chair of Stonlasec8 and Chief of Squiala First Nation. “Now, our Nations will receive sustained economic benefits from this asset, funding critical investments in housing, infrastructure, environmental stewardship, and cultural preservation. People often ask what economic reconciliation for Indigenous Peoples looks like. This is it.”

**Sustainability
in Action**

Creating opportunities for Indigenous individuals in Minnesota

Whitebird Services – a Native American and Veteran-owned pipeline service company based in Cloquet, Minnesota – is a general contractor for Enbridge and shares our value of inclusion in its workplace. Whitebird Services provided the crews for our pipeline decommissioning work on Line 3 and 4, which occurred in 2024, on the Fond du Lac Reservation in Minnesota.

Company president Tom Whitebird, a Fond du Lac Tribal Elder, is proud of his workforce and the opportunities his company has created for the community. “I look around and I see all these Natives working for me now. They’re really doing a good job. That makes me feel good,” he says. “That’s what I was looking for – respect for my Native people who are doing this work.”

For many of the crew members, Fond du Lac reservation is home and they are proud to be part of the effort to restore the land to its original state. “In our culture, we believe in taking care of it [the land] for the next seven generations,” explained Clayton, an Environmental Foreman at Whitebird Services.

Amy, a straw boss (junior supervisor), also likes being part of the restoration work. She says they have many women on the crew. As a single mother, Amy said her work has helped her support her children. “Things are being done really well. Our land is being taken care of.”

The Line 3 decommissioning work began in January 2024 and lasted until November. We hosted a lunch for the project’s crews in Carlton, Minnesota, next to the Fond du Lac Band of Lake Superior Chippewa reservation. The workers involved in Line 3 and 4 deactivation and removal on Fond du Lac territory gathered over platters of locally made fish fry, wild rice, bread and more.

Jeroam DeFoe, a member of our Indigenous Engagement Supply Chain team, said it was a great way to appreciate all the employees and contractors who worked hard on the project. The enrolled regional Tribal band members represented 25% of the project’s workforce, with many more coming from reservation communities and Native American lands. We continue to look for economic opportunities for Whitebird Services and other local Tribal businesses to support our operations and projects.

 [‘Some people are just looking for that first chance’](#)



Community engagement

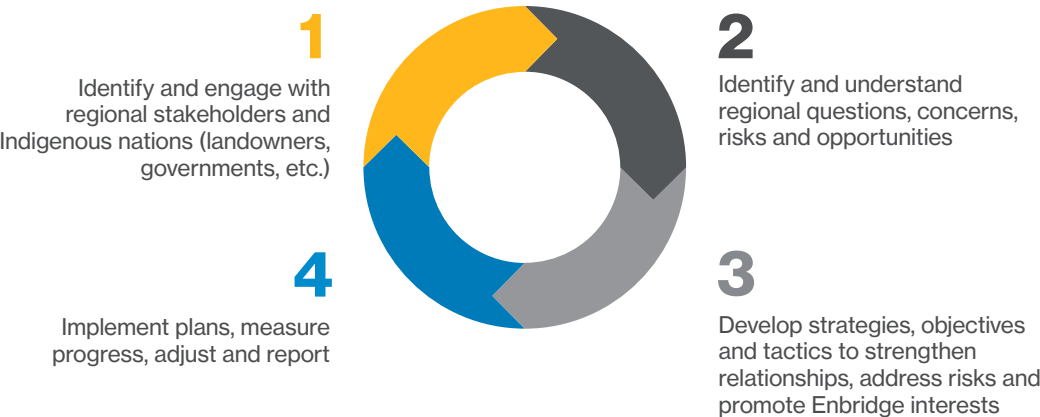
We work collaboratively with individuals and groups who live or work near—or who are impacted by—our pipelines, operations and facilities. Ongoing engagement is essential for fostering and sustaining long-term relationships and creating value for both landowners and communities. By attentively addressing community feedback and aspirations through open dialogues and partnerships, we support effective cooperation with all stakeholders.

Our approach

Our long-term success depends on engaging locally with those who may be affected by our business, understanding their values and interests and forging a meaningful dialogue. Our ability to construct and operate safely and reliably is not only about receiving permits, but also about earning trust.

Informing and listening to stakeholders in the earliest stages of project planning enables us to address, anticipate and adjust to changing stakeholder needs. We use a four-step community engagement process to help us identify, understand and engage with community members about opportunities or concerns.

Community engagement process



Creating spaces for listening, learning and asking questions

One of the ways we engage with local communities where we are developing projects is through information centers. These centers work like storefronts – physical spaces embedded within communities that have hours of operation. The centers allow members of the public to talk with our project coordinators or engagement team members to learn about the project, discuss concerns and ask questions.

At our center in St. Ignace, Michigan, visitors can learn about our Great Lakes Tunnel project, including how an underwater tunnel is built and how we’ve operated two pipelines under the Straits of Mackinac safely for 70 years. Over the past year, we’ve set up two more such centers in the U.S. – one in Ingleside, Texas for Project YaREN, a joint venture to produce, store and export low-carbon ammonia, and a second one for the Line 5 Wisconsin Segment Relocation Project in Ashland, to construct a 41-mile rerouted segment of the Line 5 pipeline in northern Wisconsin.

“Community members may come in a little skeptical, but by the time they leave, they’re much more at ease and a lot more informed,” explains Andrea Grover, Vice President, Stakeholder and Indigenous Engagement at Enbridge. These centers, she says, are about being available to the community in their own neighborhood and in a manner they’re comfortable with. We also conduct more formal open houses and schedule sessions with experts, but here the public is encouraged to come in at a time that works for them and have an informal conversation over a cup of coffee or lunch. These centers have given Enbridge and local residents easy access to each other, helping to build trust and mutual understanding.



Engaging with local communities

We actively engage with communities through various events including open houses, town halls, information sessions, community barbecues and more. These events are attended by local community members, business leaders, elected officials, educators, students and landowners. The following are examples of our work with communities from 2024:

- In the municipality of Tweed, Ontario, Enbridge Gas hosted an open house as part of the Tweed Community Expansion Project which will expand our existing pipeline to provide natural gas to the municipality of Tweed in the county of Hastings. More than 30 people came to the open house and learned about the expansion project, its impact and the process to connect.
- In eastern Ontario, Enbridge Gas conducted a similar open house for the Chute-a-Blondeau Expansion Project.
- In Alberta, Enbridge's Wabamun Hub hosted two open houses to educate community members, municipal leaders, industry experts and representatives on how carbon capture and storage works and about our activities in this space. The events in Morinville and Edmonton drew more than 25 participants.
- In Brazoria County, Texas, where we are constructing four crude oil storage tanks, we supported the Village of Jones Creek after Hurricane Beryl hit the Texas coast. Enbridge and our local contractors quickly supplied pallets of much needed water to the Fire Department to distribute to residents during the hot summer days following the storm.

- In Pennsylvania, for our Appalachia to Market II Project, we decided to modify the design of new compressor station facilities at our existing Entriiken location to better align with community input after holding a public meeting and engaging with area stakeholders. We received letters from the community following this decision, reflecting their support.
- In Iberville Parish, Louisiana, where we recently completed construction of the Venice Extension Project, we contributed funds toward The Iberville Foundation for Academic Excellence Grants for Teachers program, which provided funding for STEM-related curriculum across Parish schools. Additionally, Enbridge donated towards Hurricane Francine relief and recovery efforts led by the Greater New Orleans Foundation, United Way of South Louisiana and the Baton Rouge Area Foundation.
- In Ingleside, Texas, we responded to a need identified by Communities in Schools, a local organization near our Enbridge Ingleside Energy Center (EIEC), by providing numerous pairs of new shoes in various sizes to ensure that all students at a local elementary school had the necessary footwear. Along with our joint venture partner in Project YaREN (Yara Clean Ammonia), we invested in the construction and stocking of a new food pantry through Communities in Schools and contributed snack foods for their after-school programs.

Read about engagement with Indigenous communities on page 51.

Investing in local projects

Enbridge actively works alongside local government and non-profit organizations to support community needs with project funding. In addition to our corporate citizenship efforts, we invest and support local communities and organizations. For example, we provided funding for materials for a youth STEM camp in Tioga, North Dakota. The funds were used to purchase the materials for kids to build robots and drones. We also donated to the Mississippi Headwaters Audubon Society to support natural trails and habitat in the Bemidji area. We supported the city of Minot, North Dakota, with a donation in support of their goal to plant 2,000 new trees, and supported an employee volunteer event to remove invasive species in the Superior Municipal Forest in Superior, Wisconsin.



Learn more

[Management approach:](#)
[Community engagement](#)





Seeking balance and collaboration in energy projects

A conversation with **Andrea Grover**, Vice President, Stakeholder and Indigenous Engagement

Our engagement teams across North America recognize that while we deliver the energy communities need, we must do so safely, respectfully, and in the spirit of understanding and collaboration. We engage with positive intent to build long-standing and mutually beneficial relationships that begin early with honest conversations.

To learn more about the challenges and rewards of community engagement in energy projects across North America we spoke with Andrea Grover, Vice President, Stakeholder and Indigenous Engagement. Below are excerpts from our interview:

What is Enbridge’s approach to community engagement and how does it set projects up for success?

Our approach is relationship-based, which is the foundation of our community engagement process. We call it the lifecycle approach because it entails building and maintaining relationships very early on that last through the life of permitting, building and operating our assets, far beyond the completion of a new project. Our regional engagement plans help us identify, meet and listen to local stakeholders at the onset of involvement in their area. We start engaging early, listening, asking questions and clearing up project misconceptions. Getting that early start and sufficient time to engage with key stakeholders can sometimes be a challenge due to rigorous project timelines, but it makes a huge difference. The second component is getting local and staying local. We’ve learned that if we build strong relationships with local communities and Indigenous groups, everything else – from getting permits from agencies to finding local contractors – becomes easier.

In our roles, we act as a trusted advisor to Enbridge, but we also strive to share the voice of the community and are always looking for opportunities to align our interests with those of the community. Being aware of this dual role allows us to lay the foundation for success early and lean on existing relationships as we move forward with projects.

What are some key engagement challenges in the energy landscape today and how does Enbridge manage these?

Projects have certainly become harder to execute due to the complexities of regulatory requirements, opposition and legal challenges to the permitting process, which may not stop a project but often ends up delaying them. These challenges, however, are not unique to conventional energy projects. Any linear disturbance – railways is another example – is bound to impact people across communities. And while not linear in nature, engagement is key for Enbridge’s renewable projects, too. If people or the environment can be impacted, our relationships can help address concerns or dispel misinformation and put people’s minds at ease.

Knowing this, Enbridge is strong at establishing thorough project engagement plans that begin even before a project starts and continue through the entirety of the project. Building and maintaining open and honest relationships with key stakeholders and community members is a critical part of our engagement process. These existing relationships help us as we work through problems together if there’s an issue with a project down the line. In short, we’re good at strategy and execution. We’re also nimble and conduct scenario planning, which means we listen to stakeholders and adapt as needed. We work alongside our projects team to flag risks and suggest alternatives.

When you look back on the work done over the years, what are some of your proud moments and key takeaways?

We’re most proud of our engagement teams and the scale and scope of what they’ve accomplished. The volume of work has been significant, but so has the complexity in some of the larger projects in British Columbia, Canada, and on the Gulf Coast in the U.S. Despite the challenges, our teams have continued to live our values and deliver the sort of engagement that has stood the test of regulatory processes while also creating opportunities for communities within our projects – whether it is through employment opportunities, procurement or partnerships.

We’ve continued to focus on proactive and purposeful engagement with community members and value the long-standing, mutually beneficial relationships.



Corporate citizenship

Part of being a good corporate citizen is being a good community partner and neighbor. Enbridge Fueling Futures is about energizing communities, through partnerships and sponsorships that strengthen the safety, vibrancy and sustainability of our communities as well as through volunteerism and the generosity of our employees.

Enbridge Fueling Futures

Our corporate citizenship program, Enbridge Fueling Futures, provides resources to communities and organizations, in alignment with our core values and business goals. Enbridge Fueling Futures has three focus areas:

- **Safe communities:** We support local safety initiatives and organizations that help make our communities safer places to live. Our 2024 contribution to safe communities was \$5.5 million. This year, we developed a Corporate Citizenship Humanitarian Aid Plan, which includes a framework to guide our decision-making in how we respond and offer support during a crisis arising from natural disasters or humanitarian situations such as the pandemic. This framework helps us to determine an activation approach by providing a guide on how to assess the crisis, determine its impact, evaluate if an intervention aligns with our values and, if so, how we should respond. The framework creates a consistent process and leverages Enbridge's Fueling Futures program. See examples of how we supported communities this year on the next page.
- **Vibrant communities:** We define vibrant communities as places that offer opportunities for every citizen. To enrich the communities where we live and work, we engage in activities that nurture youth potential, celebrate culture and community, honor Indigenous Peoples and their traditions and empower individuals to reach their full potential. Our 2024 contribution to vibrant communities was \$13.5 million.

- **Sustainable communities:** We invest in the future by supporting initiatives that benefit the environment, especially projects that support the energy transition or advance environmental education, habitat conservation and remediation. Our 2024 contribution to sustainable communities was \$2.9 million.

Enbridge Fueling Futures 2024 community impact

\$28M
invested through our Enbridge Fueling Futures programs

103,134
volunteer hours by Enbridge employees

4,377
organizations supported

See our [interactive community investments map](#) to learn more about our partner organizations.



Cultivating a conservation mindset

At Enbridge, we understand that the change we seek in the world must begin from within us. By partnering with Ocean Wise, a global conservation organization committed to protecting and restoring our oceans, we raised awareness amongst our employees about how plastics affect our water bodies and encouraged them to take action.

In April, May and July 2024, we hosted a three-part webinar series led by Ocean Wise on plastic pollution and reduction strategies. The webinars aimed to educate our employees on the impact of their own practices around the use of plastics. The sessions discussed research on how plastics are affecting the marine ecosystem, helped participants identify their own plastic footprint and provided steps to run an independent cleanup.

The webinars also inspired our Green Teams – employee-led groups across our organization that lead environmental initiatives and help us “walk the talk” on sustainability. Our Green Teams looked at ways to participate in shoreline cleanup campaigns. Ocean Wise facilitated one such cleanup in Windsor, Ontario, in September with 14 of our volunteers to clean 2 km of the shoreline.

To advance Ocean Wise's broader mission, Enbridge supported its Seaforestation project aimed at restoring kelp forests in the ocean. The pilot project is looking at the feasibility of transplanting lab-grown kelp to the ocean floor. Enbridge financially supported the nursery that is growing the kelp for transplantation.

Employee volunteering

Our employees can donate and volunteer to support the causes they care about through our employee volunteering and giving program. We amplify employee impact by matching up to \$5,000 per year for any combination of hours volunteered or funds donated by employees in Canada and the U.S. Eligible contractors have access to \$1,000 in matching funds. This year, 32% of our employees participated in this program. Together, we contributed \$10.2 million to 2,665 employee-designated causes and logged 103,134 volunteer hours. To encourage participation, we hosted the following events and campaigns:

- **National Volunteer Week:** In April, we recognized the positive contributions made through employee volunteering and celebrated our leaders who led through example, donating their time or money and supporting their employees to do the same. We hosted a panel and shared stories from our top volunteers across the organization.
- **Summer of volunteering:** During the summer, we encourage our employees to participate in local initiatives such as park cleanups. This year, more than 480 employees participated in this campaign, contributing more than 13,300 hours and donating \$160,000 in volunteer grants.
- **United Way:** Our annual campaign supported more than 147 United Way chapters across North America, engaged more than 2,000 team members and raised \$5.73 million.
- **Giving Tuesday:** On Giving Tuesday, one of the world's largest generosity movements, 533 Enbridge team members participated in our extra match campaign, contributing more than \$636,600 to charities and community non-profits.

Supporting community resilience

Enbridge supports strengthening communities where we live and work, especially in times of crisis. Disaster response has been – and will continue to be – a strategic consideration in our corporate citizenship investment activities. Enbridge is expected to take an active role when natural, humanitarian or environmental disasters happen in our communities. We use our humanitarian aid framework to guide our decisions so that our actions are effective and responsive to the needs of those affected.

Our approach includes corporate donations, employee volunteering and donation matching and partnerships with disaster response organizations like Team Rubicon, a veteran-led humanitarian organization that serves global communities before, during and after crises. The examples on the right are some of the ways Enbridge supported communities overcoming crises during 2024.



Contributing to response and recovery during Hurricane Helene in North Carolina

In September, as the southeastern U.S. was bracing for impact with Hurricane Helene about to make landfall, our teams on the ground were activating our hurricane response plan and identifying alternative routes to access sites in the event of flooding.

An area that was particularly hard-hit by Helene was Asheville, North Carolina. At the time, Enbridge was completing its acquisition of what is now Enbridge Gas North Carolina (EGNC). The utility serves 650,000 customers throughout the state, with key service areas in Raleigh, Durham, Gastonia and Asheville. When Helene hit, team members in Asheville and Hendersonville responded immediately to emergency calls even though many of them were grappling with impacts to their own homes, friends and families.

Enbridge made initial donation commitments to key response agencies that totaled more than US\$175,000 across impacted states. Once the storm had passed, teams continued to look for ways to meet their communities' needs, including volunteer-led local food and clothing drives. Ongoing recovery efforts were further supported through EGNC's utility giving, focused in western North Carolina. In total, Enbridge donated US\$472,500 to support Hurricane Helene response and recovery.



Donating to the Greater Houston Disaster Alliance in Texas

We are proud to be a lead sponsor of the Greater Houston Disaster Alliance, which works to strengthen year-round disaster preparedness in the Greater Houston region. The Disaster Alliance supports the regional social services network in responding rapidly, equitably and effectively in times of disaster. The Alliance brings together two key organizations that Enbridge partners with via its charitable initiatives, the Greater Houston Community Foundation and United Way of Greater Houston.

In May, the Alliance launched the Severe Weather and Derecho Recovery Fund to help vulnerable families impacted by storms, raising US\$3.1 million. Later in July, the Alliance launched the Hurricane Beryl Recovery Fund, which raised US\$6 million. Enbridge contributed to the Alliance through a three-year commitment (made in February 2023) for US\$250,000 a year – for a total of US\$750,000.

An Enbridge executive serves on the Disaster Recovery Council of the Alliance. The nine-member council is a governing body that meets at least once per year and stands ready to be activated when a disaster occurs or is imminent.

Governance

“In today’s rapidly shifting market, the resilience of our supply chain is not just a strategic advantage—it’s a necessity. An inclusive and resilient supply chain prepares us to adapt to disruptions and enhance service to customers, no matter the circumstances.”

Susan Larson,
Chief Supply Chain Officer



Explore this section

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Corporate governance

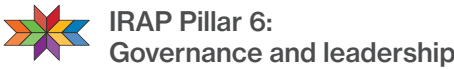
Enbridge is dedicated to clear and transparent disclosure and maintaining robust corporate governance practices that foster the long-term interests of our stakeholders, enhance accountability for our Board and management, and cultivate public confidence in our Company. We believe effective corporate governance is crucial to meeting our business goals and maintaining the trust of our stakeholders and the public.

Board structure and composition

Our Board of Directors (“Board”) is elected by Enbridge’s shareholders and is responsible for overseeing the business and affairs of our Company. The Board has five standing committees – Audit, Finance and Risk; Governance; Human Resources and Compensation; Sustainability; and Safety and Reliability. Eleven of our 12 Board members are independent (see page 63 for details). Our [Corporate Governance Principles and Guidelines](#) provide guidance on corporate governance practices, and our [Committee Terms of Reference](#) outline the roles and responsibilities for the Board, the Chair and each of the five standing committees.

Board inclusion

The Board has adopted a written policy to outline its approach to inclusion for our Board and senior management, emphasizing the importance of having the collective competencies and characteristics required to promote the Company’s continued growth and success. This year, 42% (five out of 12) of our Board members are women and 42% self-identify as a member of a visible minority.¹



Sustainability competencies and training

Our Company strives to maintain an appropriate balance of skills, expertise, tenure and perspectives on our Board to provide sound guidance on the Company’s strategy, operations and interests. We maintain a skills and experience matrix for our directors that we use in the assessment of Board composition and in the recruitment of new Board members. We recognize the value of having Board members that bring sustainability-related knowledge and include that as one of the formal skills for assessment. All 12 Board members have skills related to “ESG, Corporate Social Responsibility and Sustainability”² and nine out of 12 have skills related to “Energy Transition.”³ The table to the right shows a few sustainability-related skills. For a full list of skills and experience, refer to page 32 of our [2025 Management Information Circular](#).

Sustainability-related areas of Board skills and experience

Governance	12
ESG, CSR & Sustainability	12
Health, Safety & Environment	9
Energy Transition	9
IT/Cybersecurity	6

Periodically, Board members participate in education sessions to enhance their sustainability-related skills. For example, in June, the Audit, Finance and Risk Committee received training on cybersecurity, artificial intelligence and climate disclosure. In July, the full Board received an education session on the energy transition. Our [2025 Management Information Circular](#) provides the full list of training sessions, seminars and courses attended by our directors in 2024.



An inspiring ‘fireside chat’

In May 2024, the Women@Enbridge employee resource group held an onsite conversation with two of our Board members, Susan Cunningham and Teresa Madden. This “fireside chat” was hosted live in Calgary and streamed virtually for Enbridge employees across North America.

Susan and Teresa, who have been part of our Board since 2019, shared their remarkable career journeys and learnings along the way. They talked about the responsibilities that come with being a Board member and some tried-and-tested ways to overcome challenges.

The event was moderated by Anjan Mahrok, Technical Manager, LP Strategic Projects, and saw participation from 125 employees in person and a high level of participation in person and online.

The chat was especially meaningful for our workplace as Enbridge aspires to reflect our value of inclusion and strives to inspire through example.

¹ Defined in the Employment Equity Act, S.C. 1995, c. 44 as persons, other than Indigenous peoples, who are non-Caucasian in race or non-white in colour.
² Defined for purposes of the Management Information Circular as understanding of ESG, corporate social responsibility and sustainability practices and their relevance to corporate success.
³ Defined for purposes of the Management Information Circular as experience with policy, regulations, operations, transactions relating to renewable energy sources, new energy technologies, and climate change.

Our Board of Directors



Gregory L. Ebel
President & CEO, Enbridge
Director since: 2017
Independent: No



Steven W. Williams (Chair)
Director since: 2022
Independent: Yes



Mayank (Mike) M. Ashar
Director since: 2021
Committees: ● / ●
Independent: Yes



Gaurdie E. Banister Jr.
Director since: 2021
Committees: ● / ●*
Independent: Yes



Susan M. Cunningham
Director since: 2019
Committees: ● / ●*
Independent: Yes



Jason B. Few
Director since: 2022
Committees: ● / ● / ●*
Independent: Yes



Douglas L. Foshee
Director since: 2025
Committees: ● / ●
Independent: Yes



Theresa B.Y. Jang
Director since: 2024
Committees: ● / ●
Independent: Yes



Teresa S. Madden
Director since: 2019
Committees: ● / ●*
Independent: Yes



Manjit Minhas
Director since: 2023
Committees: ● / ●
Independent: Yes



Stephen S. Poloz
Director since: 2020
Committees: ● / ● / ●*
Independent: Yes



S. Jane Rowe
Director since: 2021
Committees: ● / ●
Independent: Yes

Board Committees

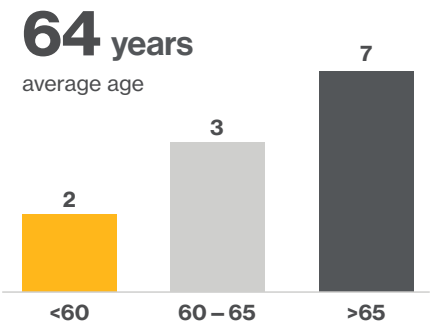
- Sustainability Committee
- Audit, Finance and Risk Committee
- Governance Committee
- Human Resources and Compensation Committee
- Safety and Reliability Committee
- * Committee Chair

Our Board composition at a glance¹

42%
members of visible minorities²

42%
women


Two committee chairs are women



3.77 years
average tenure of current directors

2
new directors appointed to our Board in the past year



¹ Data is as of the date of the annual meeting of shareholders.
² Defined in the Employment Equity Act, S.C. 1995, c. 44 as persons, other than Indigenous peoples, who are non-Caucasian in race or non-white in colour.

Sustainability governance

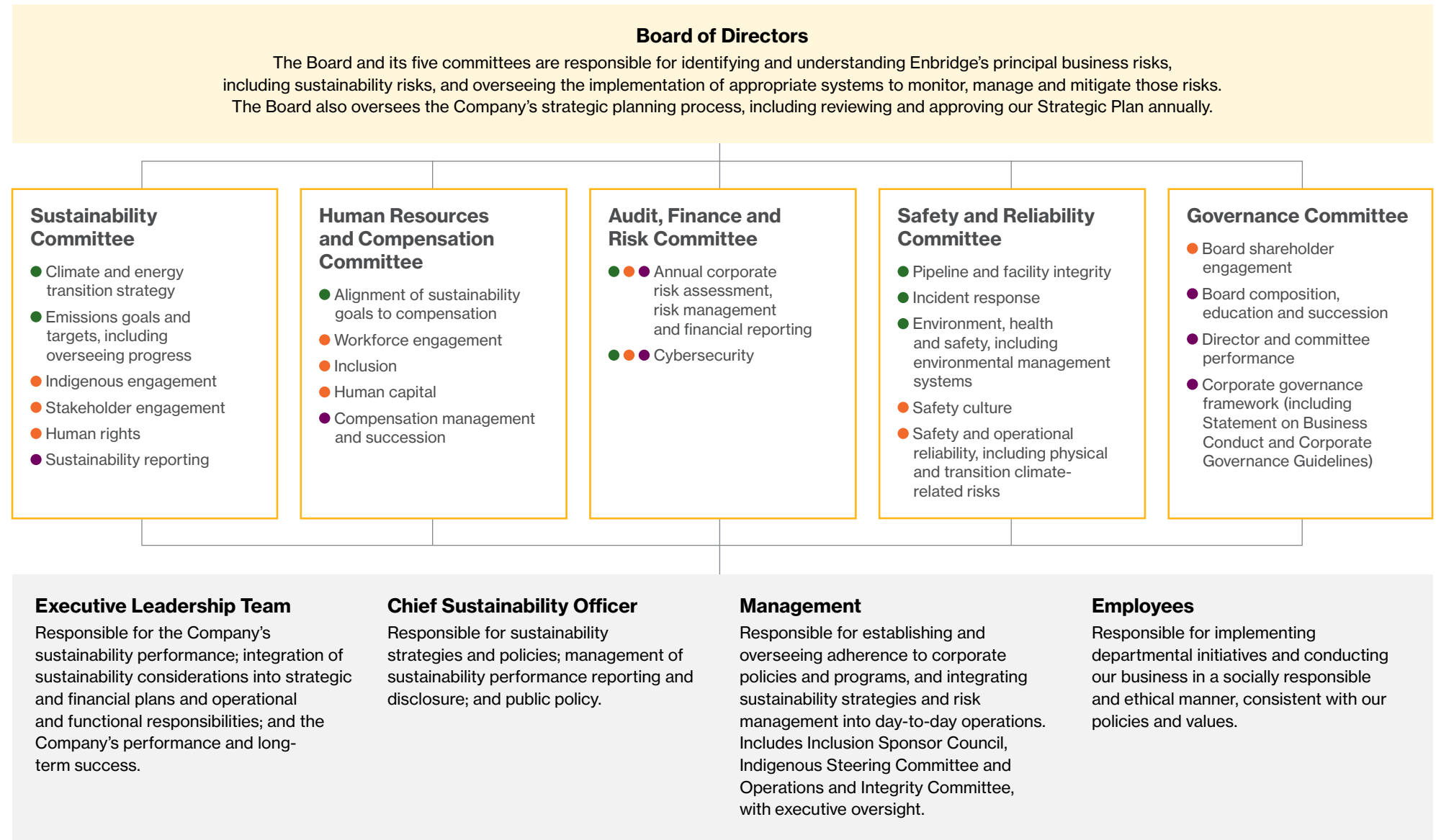
Oversight of sustainability matters is integrated into the responsibilities of the Board and all five of our Board committees. This governance structure promotes accountability, supports our progress against sustainability goals and enables continuous improvement.

Board sustainability oversight activities

The Board and its committees conducted several activities in 2024 as part of their oversight of sustainability-related matters, including:

- Each quarter, Board committees discuss sustainability topics relevant to their mandate. Over the past year, the list of topics included progress on performance goals (including emissions reduction), safety and environmental performance, compliance with the Statement on Business Conduct and evolving regulatory and market dynamics on climate and energy issues, among others.
- The Board reviewed and approved our inaugural *Fighting forced labour and child labour in supply chains* report.
- The Board reviewed our sustainability performance, including external sustainability ratings and scores against peers.

Read about Board and Management roles and oversight of climate-related issues in the [Climate-related disclosures](#) section of this report.



Ethics and compliance

Enbridge employees, and the suppliers and contingent workers who engage with us, share the responsibility for maintaining high standards of business conduct. Our commitment to ethical practices is supported by strong policies and demonstrated by our performance transparency. Our policies and processes are designed to promote a culture of integrity to guide our choices, inform our judgment, build trust and protect us from legal and financial risks.

Oversight

The Audit, Finance and Risk Committee of the Board provide the highest level of oversight for our Ethics & Compliance Program, while the Executive Leadership Team and Chief Compliance Officer are accountable for managing it. The goal of this program, and its related procedures, is to support adherence and monitor compliance with applicable laws and regulatory requirements.

Policies and training

Strong policies and regular training allow us to provide clear expectations of our employees and reinforce our commitment to making the right choices and doing the right thing. Our policies and training cover:

- **Business conduct:** The Enbridge Statement on Business Conduct (SOBC) reflects both the vital role we play in people's lives and the important responsibilities placed upon us. It provides practical guidance to help us recognize and address uncertainty and risk. The SOBC is guided by our values of safety, integrity, respect, inclusion and high performance. At the start of employment and annually thereafter, all employees and contingent

workers are required to complete online training and certify compliance. Vendors, consultants, contractors or other third parties are also required to follow the SOBC. In 2024, 99.9% of our employees and contingent workers completed this training, covering a variety of topics such as conflicts of interest, gifts and entertainment, respectful workplace, anti-bribery and anti-corruption, fraud and privacy, and whistleblower reporting. An employee or contingent worker who violates any part of the SOBC may face disciplinary action, including termination of employment or contract.

- **Fraud awareness:** The SOBC clearly states actions that constitute fraud. In clearly outlining these concepts, we strive to prevent any misuse of funds or assets that could result in financial or reputational damage.
- **Anti-corruption and anti-bribery:** Our Anti-Bribery and Anti-Corruption and other Financial Crimes Policy sets our expectations on bribery and corruption. Through the annual SOBC training, our employees and contingent workers learn about and agree to abide by our stance on these topics. To increase awareness, we have an automated system whereby individuals booking travel to countries at higher risk of corruption (determined by the Corruption Perceptions Index) receive a reminder

of this increased risk along with links to the related policy and details on their point of contact within the Ethics and Compliance team.

- **Non-retaliation:** Our employees can provide confidential and anonymous submissions on ethical or legal misconduct. The Whistle Blower Policy documents how such complaints are received and recorded. Read more on the next page.

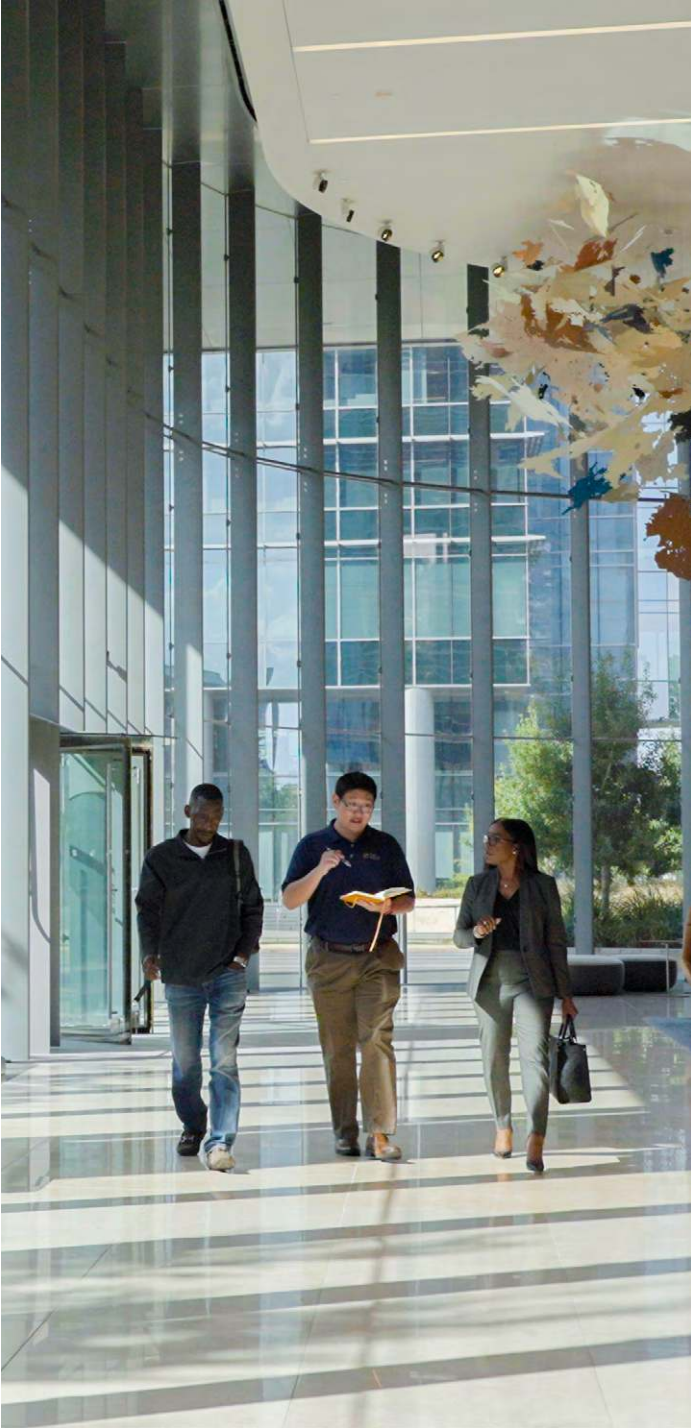
We strive to work in accordance with government regulations to prevent fines, penalties and violations. Any penalties in excess of C\$10,000 and US\$10,000 (depending on the country in which they occurred) are disclosed in the Appendix of this report, on page 109.



Learn more

[Our Statement on Business Conduct](#)
[Whistle Blower Policy](#)
[Political Contributions Policy](#)

Further details on our focus on ethics and compliance can be found in our [2025 Management Information Circular](#) on pages 38 – 40.



Building a speak-up culture

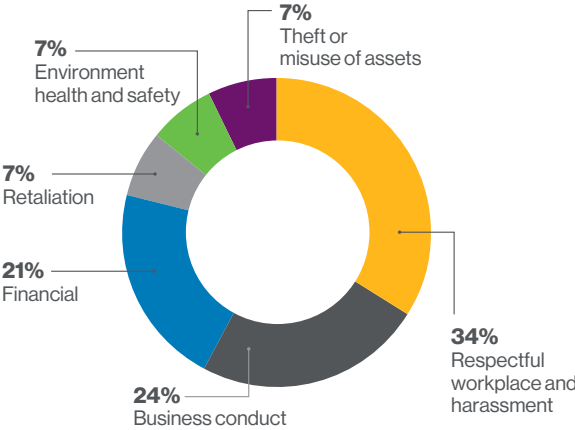
Fostering an ethical culture is critical to our business success. A speak-up culture is an environment that encourages voicing good-faith concerns without the fear of retaliation. We build this culture by being transparent about our performance, normalizing ethical dilemmas and by offering different avenues for employees to speak.

To raise awareness about ethical work practices, we host events and campaigns during the year. In June 2024, we commemorated World Whistleblowers Day, by releasing our second annual Speak-up Report, which reinforces our speak-up culture in action and provides transparent data on the types of reports received and investigated, substantiation rates, and disciplinary and other corrective actions. By sharing this information, we strengthen our ethical and speak-up culture, demonstrating our commitment to organizational justice and transparency. At the beginning of November, we also launched a campaign to observe National Ethics and Compliance Week. All employees who participated – by either sharing an ethical dilemma or scoring high on an ethics and compliance quiz – got a chance to enter a draw.

We encourage employees to report concerns regarding violations of legal and ethical obligations to either their people leader, the Ethics & Compliance department or anonymously and confidentially by using Enbridge’s Ethics Helpline. The Ethics Helpline, operated by an independent third party, is available 24/7 via telephone, online and SMS. The Helpline allows stakeholders to ask questions about the Company’s governing policies and practices. The Ethics & Compliance department manages reports and questions submitted through the Ethics Helpline in accordance with an internal documented process. We received 181 matters through the Ethics Helpline in 2024, compared with 129 in 2023.

Anonymous reporting represented 48% of all reports. The Audit, Finance and Risk Committee receives a quarterly report on concerns received through the Ethics Helpline. To reach our Ethics Helpline, visit enbridgeethicshelpline.com or call 1-866-571-4989.

2024 Ethics Helpline reports by category (% of reports)



Respectful workplace and harassment concerns are the largest category of ethics reports. Respectful workplace and related topics are covered as part of our annual SOBC training.

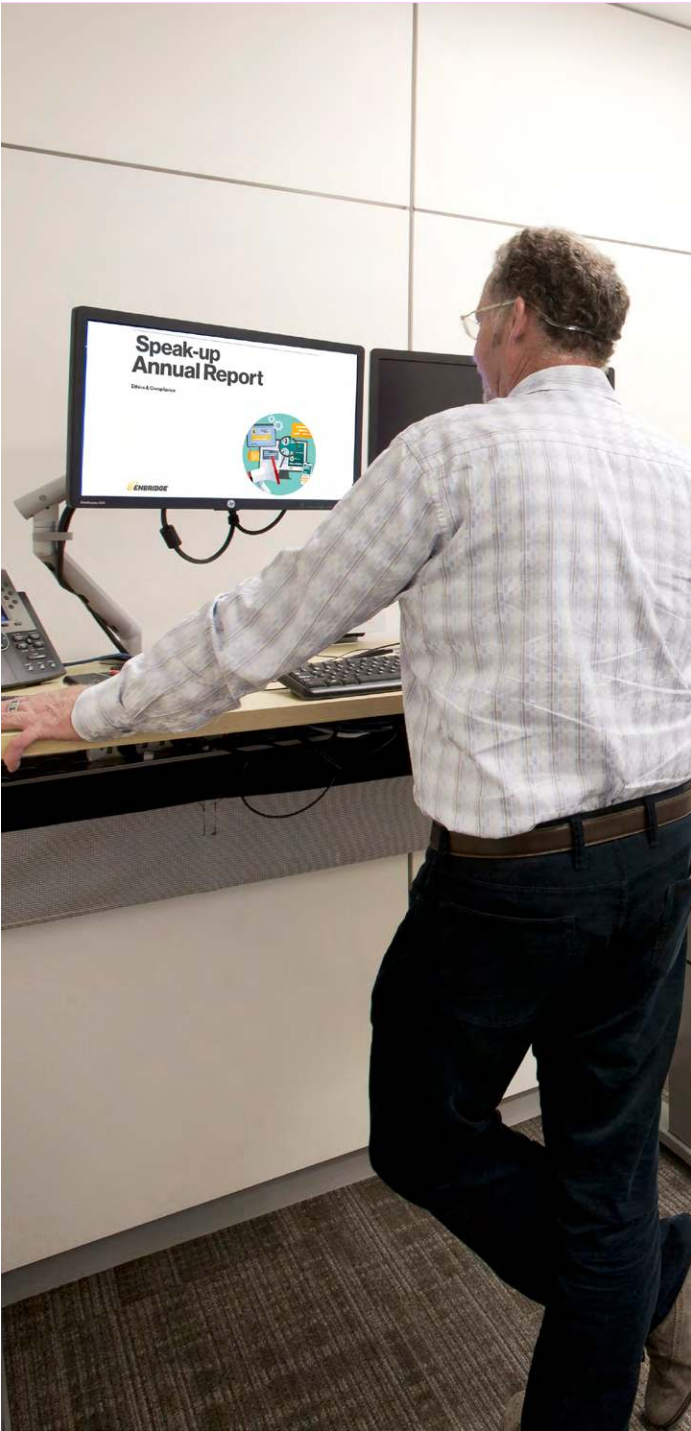
Managing third-party risk

Although partnerships and collaboration are a normal part of corporate behavior, doing business with external parties introduces third-party risk (including ethics, corruption, cybersecurity and data privacy) that could, if not properly managed, result in serious financial and reputational damage to Enbridge. We have two programs to support the mitigation of third-party risk:

Supplier management: We aim to work with vendors, consultants and contractors who share our values and adhere to our SOBC and Supplier Code of Conduct. Read more on page 68.

Third-Party Risk Management Program: Through this program, we screen and monitor our third parties (suppliers, joint venture partners, mergers and acquisitions targets) for bribery and corruption, money laundering, terrorist financing, facilitation of tax evasion, sanctions and human rights-related risk. Read more in our [Fighting forced labour and child labour in supply chains report](#).

Awareness: In March, we provided an information session, available to all employees, on the risks of forced and child labor in our supply chains. We also created resources that employees can use to share information in internal meetings. In December, we observed International Anti-Corruption Day across our organization to highlight our commitment to act with integrity and never engage in bribery when conducting Enbridge business.



Enterprise risk management

Our success is highly dependent on our ability to identify and manage potential risks. Effective risk management significantly contributes to the safety of our people and the communities we serve and builds the resilience of our business.

Our risk management approach involves identifying, assessing and mitigating threats to our business and operations, including climate-related risks. For details on climate-related risk management, read the Climate-related disclosures section of this report, starting on page 78.

Oversight

The full Board is directly engaged in driving our sustainability practices and performance and how we are positioned to participate in the energy transition – including as part of our annual strategic planning process. The Board and its committees are responsible for identifying and understanding the Company's principal risks and ensuring that appropriate systems are implemented to monitor, manage and mitigate those risks. Each Board committee has oversight of risks within their respective mandates. The Audit, Finance and Risk Committee has oversight of the Corporate Risk Assessment process and framework. Read more about the responsibilities of each committee in the [Corporate governance](#) section of this report, on page 62.

Risk identification, assessment and integration

Our Risk Management team compiles the Corporate Risk Assessment, a detailed report that documents company-wide risks and mitigations. The Corporate Risk Assessment consolidates insights gathered from across our business units and central functions. We take a bottom-up approach, working with a wide range of individuals across the Company to help us identify current and emerging risks. Training is available for Corporate Risk Assessment participants to understand Enbridge's risk assessment process and risk framework. We identify risks in 21 categories that span from safety and operations, to stakeholder trust and human resources. Our [2025 Management Information Circular](#) pages 42 – 44 and our [2024 Annual Report](#) pages 48 – 62 provide further details on these risks, along with Board and management accountabilities.

We use a matrix to assess risks in terms of their impact to our business and their likelihood of occurring. Impact to our business is assessed beyond financial impacts and includes the way risks might affect safety, the environment, our reputation and our operations. We evaluate both inherent and mitigated impacts to better understand our risk exposures. To confirm we've captured the most significant risks to our business and to assess risks relative to each other, we conduct calibration sessions with senior leaders and executives to review and challenge the Corporate Risk Assessment results.



On an annual basis, management reviews and shares the results of the Corporate Risk Assessment with the Board and its committees. The results from the Corporate Risk Assessment are used by various functions across the Company. For example, our financial reporting group, sustainability team and strategy team each use the risk assessment report to continually enhance their practices. Our operational audits for the next year are informed by the Corporate Risk Assessment and our Internal Audit team uses the risks to inform its own report for the Board. We review our risk exposure annually.

Cybersecurity—a key risk in 2024

- Cybersecurity continues to be a top risk for us. This especially includes threats from social engineering attacks (e.g., phishing and baiting) that target our employee base. Attacks against participants in our industry have continued to increase in sophistication and frequency over the past several years. For more information on how we are advancing our cyber maturity to combat new and evolving threats, see page 75.

Supply chain management

Our supply chain includes more than 10,000 active suppliers, vendors and contractors that provide materials, goods and services to Enbridge. We strive to work with suppliers who uphold our core values of Safety, Integrity, Respect, Inclusion and High Performance and who help us advance our sustainability goals.

Our approach

Supply Chain Management is a centralized function within our Company that is responsible for all aspects of our supply chain management process. This includes planning and governance, strategic sourcing and tactical procurement, materials management, logistics, accounts payable and contract management.

Policies

We require our suppliers to adhere to a [list of our policies](#), which are informed by the United Nations (UN) International Bill of Human Rights and the International Labour Organization Declaration on Fundamental Principles and Rights at Work, among others. These policies include:

- **Our Sustainability Policy**, which sets out the principles and values that underpin our operating practices at all levels of our organization in the areas of sustainability and corporate citizenship including respect for human rights.
- **Our Statement on Business Conduct**, which outlines the behavior and standards of conduct we expect of ourselves and those we work with.
- **Our Supplier Code of Conduct**, which outlines our ethical standards and expectations regarding the business conduct of our suppliers. All Enbridge suppliers are required to adhere to the Code, and this requirement is incorporated into contractual terms.

Supplier assessments

To build and maintain a resilient supply chain, we seek to understand the sustainability practices and performance of prospective suppliers. We proactively address potential challenges early in the supplier engagement process. This process begins with suppliers filling out our request for proposal questionnaire which incorporates our key sustainability-related inquiries.

Enbridge collects sustainability data from top suppliers using a third-party assessment platform and market intelligence tools. The platform evaluates suppliers across four pillars: environment, labor and human rights, ethics and sustainable procurement, based on standards like the UN Global Compact and Global Reporting Initiative. Customized questionnaires generate a scorecard for each supplier, assigning an overall risk rating and ratings for each pillar, along with detailed reports on strengths and areas for improvement.

Participation by suppliers is not required but rather positioned as a collaborative and informative process. Assessing suppliers in this way helps us find suppliers who are aligned with our core values. This year, we have newly rated 66 suppliers, reflecting a notable 28% increase from 2023. Consequently, approximately 45% of our overall supplier spend is now assessed – marking a 4% rise from last year. Since inception, 300 key suppliers have had their sustainability performance rated.

The following represents key performance highlights from our third year of supplier assessment:

- Suppliers with a carbon performance rating increased from 174 to 253, accounting for 43% of key suppliers.
- Suppliers sharing Scope 1, 2 and 3 emissions increased from 69 to 91, which constitutes 13% of key suppliers.

Supplier engagement

Supply Chain holds periodic performance review meetings with each of our key suppliers to discuss and manage their performance. Using the third-party sustainability assessment platform and market intelligence risk and ratings scores, we engage suppliers to improve their performance including, where appropriate, identifying corrective actions such as additional training.



Learn more
[Sustainability Policy](#)
[Our Statement on Business Conduct](#)
[Supplier Code of Conduct](#)
[Indigenous Peoples Policy](#)

Fighting forced labor and child labor in supply chains

Enbridge has policies and processes in place to prevent and reduce the risks of forced labor and child labor. These policies and processes apply enterprise-wide and support our commitment to human rights including preventing and reducing the risk of forced labor and child labor in our operations and supply chains. We have a zero-tolerance policy for human rights abuses which extends to the use of forced labor and child labor.

In addition to our existing human rights policies and practices, we undertook additional steps to prevent and further reduce the risk of forced or child labor in our supply chains by:

- Continued to engage an internal working group to examine our current practices and enhance our existing frameworks
- Used a third-party sustainability assessment platform to evaluate the human rights performance of our key suppliers
- Conducted further analysis of the areas of our business and supply chains that carry a higher risk of forced and child labor
- Enhanced contractual terms related to forced and child labor for a broader scope of suppliers
- Performed risk assessments on potential new suppliers during the request for proposal process

To learn more about the steps Enbridge takes to prevent and reduce risks of human rights abuse, please review our [Fighting forced labour and child labour in supply chains](#) report which includes detailed information about our due diligence processes for supplier onboarding, ongoing supplier management and contractual requirements.

Inclusion in supply chain

As a large infrastructure company, we can create positive economic impact and support the communities in which we live and work by how we hire suppliers:

Indigenous procurement

Supporting Indigenous communities through procurement is an important goal of our IRAP. From the launch of our 2022 IRAP to the end of 2024 we have spent \$837 million in Indigenous communities.

We have focused on hiring more Indigenous general contractors who coordinate and work on complex, higher-value projects. For example, Whitebird Services provided environmental and Tribal liaison services for the Line 3 decommissioning project during 2024 (read more on the next page) and all our integrity digs in British Columbia, Canada, were awarded to Indigenous contractors.

We continue to provide support for Indigenous businesses navigating our procurement system. We are exploring opportunities to remove contracting barriers and further support Indigenous contractors. This work includes reviewing contracting payment mechanisms and processes to increase participation and positive outcomes for Indigenous businesses. We aim to conduct information sessions to provide guidance and education to Indigenous businesses seeking participation in our supply chain. Learn more about our Indigenous procurement and business summits conducted in 2024 on page 54.



IRAP Pillar 3:
Economic inclusion and partnerships

Supporting businesses

A strong, broad and inclusive supplier community enhances the resiliency and agility of our supply chain. It also contributes to the vitality of the communities where we live and work. Our contractors and suppliers often represent Enbridge and help drive our business and sustainability performance. Therefore, it is important that our values and goals align.

We aim to collaborate and engage with suppliers who prioritize sustainability in their supply chains. We expect them to uphold the human rights, labor, health and safety, environmental and business ethical practices outlined in our policies.

In addition to our Indigenous economic engagement spend, in 2024 we directly spent \$362.9 million with 253 certified inclusive suppliers (Tier I), marking a 5% increase from the previous year. Our other efforts include a 69% increase in spend with non-Indigenous certified subcontractors (Tier II), marking a 6% increase in suppliers reporting spend in this area – from 143 suppliers in 2023 to 152 in 2024.



Focused on employing Indigenous workers in the trades

FDL Star is a Native American woman-owned construction company focused on employing Indigenous workers in the trades, and a trusted member of Enbridge's Indigenous supply chain in Wisconsin. "My experience with Enbridge has been wonderful. There's an open line of respect and integrity within the company," says Kim Kastern, President of FDL Star and a member of the Bad River Band of the Lake Superior Tribe of Chippewa

Indians. Enbridge has committed to a \$46-million spend with Indigenous contractors and businesses and 10% Indigenous workforce representation on our Line 5 Wisconsin Segment Relocation Project.



[Focused on employing Indigenous workers in the trades](#)



A partnership driven by shared values on responsible business practices

A conversation with **Saige Pilgrim**, President, Pilgrim Construction Company



When it was founded in 1999, Pilgrim Construction Company specialized in core oil and gas services. Today, this American company provides a full range of energy construction services, including wind and solar facility construction, site preparation and reclamation, and carbon crediting. It is licensed to operate across 28 states in the U.S. and works with our LP and GTM project teams. It's not just the impressive portfolio, however, that makes this company a trusted ally for Enbridge; it's also our shared values and focus on sustainability.

We spoke with President Saige Pilgrim on this values alignment and their own journey towards building a business that, like ours, believes in doing the right thing.

What value do you see in Pilgrim's relationship with Enbridge?

Pilgrim views Enbridge not just as a customer, but as a preferred partner. In a world where the conversation around sustainability is constantly changing, Pilgrim's relationship with Enbridge has pushed us to invest in our values-aligned policies of sustainability, equity and integrity with greater confidence. In short, your investment drives our investment.

What inspired Pilgrim's dedication to sustainability?

Before our foray into the energy industry, the Pilgrim family members – and many of our present employees – were farmers. We husbanded timber, cattle, corn, chickens and hogs; many of us still do this, when not on a jobsite. That relationship with the land comes with an innate awareness of the need to protect and steward our shared resources – balanced with the requirement to work quickly and effectively.

What recent innovations or plans do you have for enhancing environmental sustainability within your operations?

Pilgrim is currently exploring an investment into electric vehicles and charging infrastructure for our short-distance fleet. Outside of this, our logistics manager has introduced a waste-reducing inventory program designed to mitigate the duplication of purchases on single-use items across our projects, with a greater emphasis on buying products that have a longer lifespan from job to job.

How has Pilgrim leveraged its third-party rating to drive continuous improvement in your sustainability performance?

We used our initial third-party sustainability rating to improve and clarify internal conduct and purchasing policies for both our workforce and management team. This has led to the implementation of an annual policy review and update process.

What are Pilgrim's future goals for managing carbon emissions and strategies for emissions management?

Pilgrim intends to continue reducing our carbon footprint through efficient equipment deployments and equipment maintenance, and the selection of lower-impact materials and products, wherever possible. Additionally, we will continue to emphasize the importance of environmental awareness and preservation of wetland boundaries as part of our internal health, safety and environment (HSE) program.

How do you encourage an inclusive, safe, fair and ethical working environment for your employees?

We have clearly articulated and posted policies regarding jobsite safety, harassment and employee rights, and our management team practices an open-door approach to employee concerns and inquiries. From the field, to the superintendent, to the

project manager, to human resources, to HSE, to me – Pilgrim's employees know there is a chain of communication and we are ready to listen and support. Our HSE manager is consistently exploring new opportunities to make sure that safety is embedded in our company culture, and our annual review verifies that our internal policies evolve alongside the American labor market.

“Pilgrim's relationship with Enbridge has pushed us to invest in our values-aligned policies of sustainability, equity and integrity with greater confidence. In short, your investment drives our investment.”

Saige Pilgrim
President, Pilgrim Construction Company

Political advocacy and accountability

Enbridge contributes to the development of public policies through engagement with the government, regulatory bodies and public policy processes in the jurisdictions where it operates. We do this to support our enterprise-wide strategic priorities. We aim to be a trusted advisor to governments and regulators — engaging on numerous policy issues including energy, climate, tax reform and permitting.

Our approach

Our ongoing advocacy work reinforces our beliefs in the critical role for all forms of energy, the need for permitting reform, and for the incentives and policies required to invest in the energy evolution. The Board and [Sustainability Committee](#) have stewardship over advocacy activities, providing oversight on our approach and alignment with the Company's interests and strategic priorities, in accordance with our values, our [Political Contributions Policy](#) and our [Statement on Business Conduct](#). The Sustainability Committee also has stewardship over political lobbying activities, including reviewing policies related to the Company's political contributions and lobbying activities to align with the Company's policy positions and strategy. Our efforts follow all applicable laws, ethical obligations, and our own policies. We file lobbying reports as required for all jurisdictions where Enbridge operates. Detailed disclosures can be found in our Political Contributions Policy.

Public policy decisions can have significant implications for Enbridge's operations and long-term strategy. Lobbying is an important way for Enbridge to participate in the political process and help inform the development of public policies important to our business objectives, our employees, our industry and other key stakeholders. Enbridge employs and engages registered lobbyists in Canada and the U.S. to support our legislative and regulatory activities.

Advocacy through associations, groups and coalitions

We collaborate with industry groups on a variety of topics, including: developing technical standards as well as standards for engagement and sustainability reporting; promoting technically sound regulations, drawn from best-in-class emissions measurement practices; and supporting comprehensive emissions inventories across the oil and natural gas value chains. While we seek to build consensus, policy positions taken by trade associations often require a compromise or balancing of interests, and Enbridge may, on occasion, have a differing perspective or interest. When appropriate, Enbridge may offer its own point of view directly on public policy matters related to our corporate strategy and business operations. We actively participate in several industry associations in the U.S. and Canada to help inform the development of policy. In 2024, we assessed nine of our most significant trade associations to review alignment with our climate-related policy positions. Read more in our trade association assessments on page 105.

Political contributions

In 2024, Enbridge made C\$16,775 in corporate political contributions in Canada and US\$58,500 in corporate political contributions in the U.S. In the U.S. the employee-governed Enbridge Political Action Committee (ENB PAC) is a forum for eligible employees, shareholders and retirees to voluntarily contribute to the PAC that supports the election of federal and state candidates to Congress in states where corporate contributions are prohibited. The ENB PAC made US\$132,500 in contributions to various federal and state political candidates and organizations.

Climate-related policy positions

Our climate-related policy positions serve as a framework for advocacy with governments, trade associations, regulators and other stakeholders. They also serve as the basis of our review of trade associations. These policy positions are in line with Enbridge's strategy and are the basis for achievable, forward-thinking and durable public policies that we believe support the energy evolution and our own emissions reduction goals.



Global GHG emissions

We recognize the world must find new ways to meet growing global energy demand while reducing GHG emissions. We also recognize that Enbridge has a role to play in reducing our operational GHG emissions, while we work with others to reduce GHG emissions across the entire energy value chain.



Climate science

We acknowledge and recognize climate science.



Carbon regulations

We support efficient and cost-effective carbon regulations that address the climate impact of energy development and consumption and are designed to prevent capital flight. We also support carbon pricing designed to preserve market competitiveness, particularly for emissions-intensive trade-exposed sectors, while enabling compliance flexibility (e.g., carbon trading).



Carbon credits and nature-based solutions

We support the use of verifiable carbon offsets, for both compliance and voluntary emission reduction goals.



Natural gas

We recognize the role that natural gas plays in global energy affordability and reliability, specifically as a reliable energy supply through LNG and as a reliable partner to renewables. We also support well-designed policies and regulations to reduce GHG emissions — including methane — from across the natural gas value chain.



Hydrogen

We believe hydrogen allows energy to be effectively and efficiently stored, transported and used in innovative ways to help reduce global GHG emissions. We also support policy which is technology-agnostic, and provides opportunities for natural gas, paired with CCS, to compete more fairly in new markets and meet growing demand for affordable, reliable, lower-carbon energy.



Carbon capture and storage (CCS)

We support policy mechanisms that encourage CCS deployment at scale, including government incentives and complementary measures. We believe incentivizing investment in CCS through punitive measures will not enable the mobilization of capital to reach the pace and scale required to avoid the worst impacts of climate change.

Advocacy in alignment with our pillars

Energy demand growth requires public policies that balance the challenges of accessible and affordable energy with meaningful actions to support environmental stewardship, emissions reductions and global climate goals. We are committed to lobbying for policy that enables us to meet growing global energy demand while reducing global GHG emissions. We often respond to requests for public comments on proposed legislation and regulations as a company and with our trade associations or coalitions (i.e. from Environment and Climate Change Canada (ECCC), the U.S. Environmental Protection Agency (EPA), the Council for Environmental Quality, and the USACE). We engage policymakers on four key pillars necessary to address the dual challenges of energy security and climate change:

1 Realizing our North American advantage: Integrated energy markets

Canada and the U.S. have an abundance of natural resources, a clear advantage in meeting energy needs at home and abroad. These abundant resources power our homes, our economies, and enhance our energy security and affordability. By harmonizing regulations and enabling energy supply chains across our borders, we can help to reinforce North America's position as a reliable, affordable and sustainable energy provider. In the U.S. and Canada, we engage with federal, state, provincial and local governments to provide our perspective on climate and energy issues affecting our industry.

2024 engagements

- In May, Enbridge CEO Greg Ebel gave a keynote speech to the American Gas Association Financial Forum on the critical role of natural gas to meet energy needs and advance the energy transition. He also spoke about Enbridge's investments in gas on both sides of the border and our efforts to reduce methane emissions.
- In September, Michele Harradence, EVP and President, Enbridge Gas spoke at the Toronto

Regional Board of Trade. The event, called "After Capital Gains: Reigniting Investment," was attended by business and policy makers. She emphasized that if we want to get serious about reigniting investment in Canada, we must start with energy investment to modernize assets, develop new projects and advance technologies that will support the energy evolution.

2 Balancing our approach: Conventional and lower-carbon energy

Addressing the challenges of energy security and climate change includes finding a balance between conventional and lower-carbon sources. We believe Enbridge has an opportunity to reduce emissions from existing processes, turn promising technologies into scalable solutions, repurpose existing infrastructure (for example, blending hydrogen into natural gas distribution networks), and continue to invest in new, lower-carbon infrastructure such as renewables, while also maintaining and modernizing existing energy infrastructure. We advocate for practical public policies and incentives for lower-emissions technologies to promote investment at an accelerated scale and speed.

2024 engagements

- In October, our CEO Greg Ebel participated in the [Energized: The Future of Energy](#) podcast by GZERO, together with former U.S. Congressman Tim Ryan (D-OH). They talked about the role of natural gas in the future of energy and how it can be combined with renewables to create an efficient energy transition.
- In September, Cynthia Hansen, EVP and President, Gas Transmission and Midstream participated in a panel at Gastech in Houston. With over 800 exhibitors, Gastech is the world's largest energy exhibition and conference for natural gas, LNG, hydrogen and climate technologies. The panel, called "New Energy Economy & Natural Gas," covered the role of natural gas in meeting energy demand and helping to support emissions reduction targets. Enbridge executives Allen Capps and Pete Sheffield also participated in a discussion on the

role of natural gas in meeting global supply needs, and methane emissions, respectively. Enbridge also hosted workshops on the natural gas industry at the Gastech conference.

3 Encouraging investment: Predictable, consistent permitting processes for energy infrastructure projects

Despite the increase in global demand for energy, the capacity to address the supply and demand imbalance has been lagging due in part to inefficient, overlapping and inconsistent regulatory reviews and legal challenges. We advocate for permitting reforms to support predictable, inclusive and timely review of critical energy infrastructure projects. We take the position that an inability to build linear energy infrastructure in a timely manner – from transmission lines to pipelines – drives up the price of energy, degrades environmental performance and chills investment.

2024 engagements

- In May, our CEO Greg Ebel wrote in *Politico* that across much of the U.S., the public doesn't have an appetite for more energy infrastructure, which is a problem for economic growth and energy affordability. One way to remedy this would be through incremental improvements to the permitting process. Read the full article [here](#).
- In November, Michele Harradence, EVP and President of Enbridge Gas, spoke at the Empire Club of Canada about how we support the Ontario government's plan to become an energy superpower. She talked about the three crucial ways to encourage energy investment: a) simplifying the regulatory burden on the energy sector, b) simplifying the complexity of both the tax and incentive systems, and c) encouraging efficient economic incentives across the energy sector.
- In the U.S., we engaged with members of Congress and the Biden Administration to advocate for a durable permitting process – faster and with fewer hurdles – for new energy and infrastructure projects, enabling investment to support energy security and global decarbonization goals.

4 Bringing everyone along: Economic participation and reconciliation

Enbridge believes that energy benefits all people, and in turn, all people should be involved in creating our energy future. For this reason, Enbridge engages in the energy development process and environmental stewardship with the communities in which we live, work and have energy facilities and assets.

2024 engagements



- In April, our CEO Greg Ebel and Cynthia Hansen, EVP and President, Gas Transmission and Midstream, spoke at the First Nations Major Projects Coalition conference in Toronto. The conference is attended by Indigenous leaders, governments and industry. During presentations we reinforced our beliefs on the role and importance of Indigenous equity partnerships in the industry.
- In May, Cynthia Hansen, EVP and President, Gas Transmission and Midstream, addressed union leaders at the Pipeline Contractors Association of Canada annual conference. Cynthia spoke to the importance of collaboration between industry and trades, the need for permitting reform to help enable continued growth, and opportunity in unlocking the value of Canada's natural resources. She also talked about the significance of Indigenous partnerships, the role of economic inclusion in advancing Indigenous reconciliation and the importance of Indigenous equity partnerships in the industry.

Additional advocacy

We engage in public policy discussions to support affordable, reliable energy because we believe it is essential to economic prosperity – keeping businesses and industries competitive, and supporting jobs and families. We are transparent about our positions regarding current sustainability-related policy developments that impact our business and our industry, including:

Challenges in achieving a net-zero grid by 2035

Enbridge expressed concern regarding the Government of Canada’s *Clean Electricity Regulation* intended to establish a net-zero grid by 2050 (i.e. electricity generation that produces little to no GHG emissions). We believe that this could negatively impact consumer affordability, system reliability and economic development. We support the federal government’s goal of a net-zero economy but recommend: enhanced regulatory flexibility that recognizes jurisdictional disparities, an “all-of-the-above” approach to decarbonizing the electricity grid (including co-firing of natural gas along with hydrogen and renewable natural gas), and a longer timeline to meet these goals given the pace and scale of investment required.

We also believe that RNG and hydrogen will play an important role in meeting compliance obligations under the *Clean Electricity Regulation* decarbonization of the industrial and transportation sectors and home heating. The “book and claim” approach to GHG accounting and emissions reporting is a chain of custody model that separates a product’s physical form (i.e., the MWhs of electricity) from its sustainability characteristics (i.e., emissions or avoided emissions). This allows the sustainability characteristics to be transferred as a credit through a registry.

In 2024, under the Biden Administration, the EPA finalized a host of new requirements and emissions guidelines for fossil-fueled power plants in the electricity sector. Although we support the government’s goal of reducing GHG emissions from the electricity sector, we believe the pace and scale of investment required will create unintended consequences, impacting consumer affordability, system reliability and global competitiveness. We recommended that the U.S. EPA re-evaluate the policy framework given the increased demand for electricity from industrial expansion and AI data centers.

Role of natural gas

Following the Electrification and Energy Transition Panel’s recommendation on the need for policy clarity from the Government of Ontario, we have been advocating that the government set clear direction on the role of natural gas in Ontario’s energy future in order to support investment and regulatory certainty.

In 2024, Enbridge CEO Greg Ebel, and Cynthia Hansen, EVP and President, Gas Transmission and Midstream, had meetings with the Federal Energy Regulatory Commission, an independent agency that regulates the transmission and sale of oil, natural gas and electricity in the U.S. Their discussion included the need for more transmission infrastructure and how increasing reliance on variable renewable energy sources like solar and wind, potential power plant retirements, extreme weather events and potential future power shortfalls in certain regions of the U.S. highlights the role of natural gas.

Methane advocacy

Enbridge, along with other stakeholders in the natural gas value chain, have engaged with ECCC on its amendments to the federal methane regulation intended to achieve a 75% reduction in methane emissions by 2030. In addition to providing meaningful input on the feasibility and cost implications of the proposed amendments, we have encouraged ECCC to ensure that its approach to regulating methane emissions is complementary to the existing suite of climate-related policy in Canada, and to avoid regulatory duplication.

In the U.S., the EPA underwent rulemaking for the implementation of a “Waste Emissions Charge for Petroleum and Natural Gas Systems” – commonly referred to as the “Methane Fee” – established by the *Inflation Reduction Act* (IRA) of 2022. Enbridge and other members of the Interstate Natural Gas Association of America (INGAA) engaged with the EPA on the implementing rules. Enbridge has long advocated for well-designed, performance-based regulations which keep pace with voluntary efforts and technological advancements to reduce methane emissions. Enbridge further advocated to eliminate redundancy and inconsistency across various federal agencies.

We also support the American Petroleum Institute’s (API) advocacy with the European Commission Directorate-General for Energy to work with the U.S. federal government to establish an equivalency agreement between U.S.-based methane regulations and the European Union Methane Regulation, in order to enhance the carbon competitiveness of U.S. exports of LNG to Europe.



A balance in decarbonization and affordability in housing

We support the Government of Canada’s plan to build 3.5 million houses needed by 2030 to restore housing affordability for Canadians. However, we recommend that the National Building Code – which outlines technical requirements in the construction of new buildings, as well as alterations to, or demolition of, existing ones – balance decarbonization with affordability.

We also recommend that updates to the National Building Code should be technology agnostic and enable multiple pathways to decarbonization, including blending lower-carbon fuels such as RNG into the existing, resilient natural gas infrastructure.

Support for Indigenous Loan Guarantee Program

We continue to advocate for the Indigenous Loan Guarantee Program in Canada. We believe that a sector-agnostic approach to the program will make it easier for Indigenous Nations to acquire equity stakes in projects and could also help align interests and support successful project development through the regulatory and permitting process. We believe this will provide a financial backstop for Indigenous equity investments in all forms of energy and aligns with our IRAP commitments as well as our focus on Indigenous equity partnership.



Carbon capture and storage opportunities

Enbridge, along with other stakeholders in Ontario, have been working to develop a streamlined regulatory framework for commercial CCS opportunities on private and public lands. This would support Ontario’s eligibility for the CCS Investment Tax Credit (ITC), a refundable tax credit that applies to eligible expenses incurred for a qualified project. We believe that this funding will encourage Ontario to adopt CCS and enable us to support the decarbonizing of industrial sectors. In Canada, we supported the government’s refundable ITC for CCS.

In the U.S., our advocacy efforts have also focused on a more streamlined regulatory framework for CCS, including the support of state primacy for EPA Class VI wells used for geologic sequestration of carbon dioxide. These efforts have been largely undertaken through the API.

We believe specific provisions in the U.S. IRA and *Infrastructure and Jobs Act* could spur significant deployment of CCS in the U.S., if the federal and state governments can facilitate timely permitting. We also encouraged Canadian policymakers to consider the potential implications of the IRA on the competitiveness of Canadian CCS projects.

Role of hydrogen

In the U.S., we believe the implementation of the 45V tax credit in a technology-agnostic manner to advance a clean hydrogen economy could help move the industry forward and maintain competitiveness on a global scale.

In Canada, we responded and supported the government of Canada’s draft consultation on a clean hydrogen investment tax credit (CHITC), which is now Canadian policy. We are also active at the provincial and municipal levels in hydrogen advocacy.

Canadian Competition Act greenwashing provisions

In June 2024, the Canadian federal government amended the *Competition Act* to add provisions aimed at preventing greenwashing, requiring that environmental claims made by businesses be substantiated using internationally recognized methodologies, with the burden of proof on the claimant.

The Competition Bureau launched public consultations, during which Enbridge recommended that the Bureau issue balanced guidance that protects consumers while enabling innovation and transparency. Enbridge also emphasized the need for the Bureau to align with existing and developing regulatory frameworks and collaborate with securities regulators on climate-related disclosure. In December 2024, the Bureau released draft guidelines, and Enbridge reiterated concerns about lingering uncertainty and potential negative impacts on consumer choice and innovation, recommending either repeal of the provisions or more detailed guidance.

Our belief remains that the new greenwashing provisions have unintended negative consequences of reducing informed customer choice and suppressing dialogue and innovation in the energy sector, at a time when energy security and sustainability goals are important for the country’s economic success. Read more concerning Enbridge’s response to *Competition Act* amendments on our [website](#).

Collaboration to promote best practices

We also work with coalitions to broaden our impact and help shape policy and legislation to promote informed dialogue and sound public policy in areas relevant to Enbridge’s interests and operations.

Examples of our participation include:



Enbridge participates in the [Center for Climate and Energy Solutions \(C2ES\)](#) Climate-Aligned Trade Working Group and the Clean Hydrogen

Technology Working Group. The purpose of the Climate Aligned Trade Working Group, in partnership with Resources for the Future, is to develop practical and effective U.S. climate and trade policies to address competitiveness and reduce emissions.



We participated in a comprehensive study led by the [National Petroleum Council \(NPC\)](#) which published a report summary, “[Charting the](#)

[Course: Reducing GHG Emissions from the U.S. Natural Gas Supply Chain](#),” at the request of the U.S. Secretary of Energy. The report includes policy recommendations to meaningfully reduce emissions from the natural gas system. Enbridge’s President and CEO serves on the Council of the NPC and the work of the study reflects the successful coordination of diverse perspectives from the oil and gas industry.



Enbridge is involved with the [Global CCS Institute](#) in accelerating the

deployment of CCS technologies, a crucial tool for achieving net-zero emissions.

Cybersecurity

As a provider of essential energy infrastructure, we adopt the same attitude toward cyber safety as we do toward our physical safety: staying alert, cautious and ready to respond immediately to any concerns and threats. Cybersecurity is a vital aspect of how we help protect our Company and customers.

Oversight

The Audit, Finance and Risk Committee of the Board has the highest level of oversight of cybersecurity matters, including the integrity of financial data, the security of the cyber landscape, and operational risk and controls, and receives a quarterly report on these topics to review. Our Chief Information Security Officer has oversight of matters related to information security.

Our approach

Given the scope of our operations and our contribution to energy infrastructure in North America, we take cybersecurity seriously. We work closely with government agencies in the U.S. and Canada (i.e., the Department of Homeland Security in the U.S. and the Department of National Defence in Canada), industry partners and peers to constantly monitor threats, evolve our cyber maturity and remain prepared to act. Our overarching Cybersecurity Policy and supporting standards, processes and guidelines govern the protection of the Company's technology assets to manage cybersecurity risks, threats and vulnerabilities. This policy, along with the Privacy Policy, emphasizes and strengthens the protection of personal information to prevent unauthorized access, loss or theft of data. This year, we introduced our Artificial Intelligence (AI) Policy that sets clear guidelines on how AI can be used safely and responsibly by our employees.

Our cybersecurity practices align with the National Institute of Standards and Technology (NIST) framework. We engage a third party to conduct an annual assessment of our practices benchmarked against our oil and gas industry peers and have been ranked in the top quartile using NIST's six pillars (govern, identify, protect, detect, respond and recover) of a successful cybersecurity program. We also align our cybersecurity program with applicable requirements and industry best practices such as International Organization for Standardization (ISO) 27001; Transportation Security Administration (TSA) Pipeline Security Directives and Guidelines; American Petroleum Institute (API); Canadian Standards Association (CSA); and U.S. Securities and Exchange Commission (SEC).

Our systems and controls are tested annually by independent third parties through penetration/vulnerability assessments, as well as independent audits. We perform quarterly testing of cybersecurity incident response and recovery processes. We also monitor for potential threats and malicious activities across our environment around the clock through our Security Operations Center.

Training and awareness

Enbridge has a dedicated team responsible for driving a culture of safe and secure cyber behaviors across the organization through:

- **Training:** All Enbridge employees and contractors are required to take our Acceptable Use of Technology Assets training annually. The training describes how to safeguard our information and assets. The training also raises awareness regarding what actions to take to protect the Company when using technology assets and the internet. Additionally, targeted cybersecurity awareness trainings are conducted for higher-risk groups within Enbridge, such as users with access to sensitive information. We add and update our training programs regularly.
- **Awareness:** To elevate awareness of cybersecurity risks and responsibilities across the organization, our team regularly shares information via emails, town halls and other special events, as well as through our intranet and social media. We transform emerging cybersecurity trends and topics into valuable learning experiences through our "Cyber Meeting Moments." This internal repository features numerous presentation decks on cybersecurity topics and learning events and is accessible to all employees. We also take part in external events such as industry working groups (e.g., Canadian Gas Association Energy Security Technology Advisory Committee, Canadian Standards Association Group, American Gas Association, Interstate Natural Gas Association of America, and the Oil and Natural Energy Information Sharing and Analysis Center) and tabletops to learn and share.

- **Phishing:** Phishing is one of the most prevalent cyber threats in our industry. Our phishing awareness efforts aim to educate employees to recognize the warning signs and report suspicious emails promptly. Our employees are expected to report any incident such as phishing or any other suspicious or malicious activity, through our Security Operations Center or our Enbridge Service Desk. We conduct simulated phishing tests every month to increase awareness and assess our vulnerability. We follow up with departments that are underperforming and provide additional support to employees who failed phishing tests via a web-based training course. We also perform targeted testing on highly targeted groups and operational technology users (e.g., employees working at industrial sites).

Advancing our cyber maturity

We're frequently upgrading and improving our cybersecurity practices to combat new and evolving threats, such as social engineering attacks. To counter these threats and strengthen our defenses, we continuously evaluate and enhance our security measures and restrict access where necessary. Furthermore, we collaborate with each business unit to carry out exercises that aim to enhance resilience and maintain safe and reliable operations at all times.

 **Learn more**
[Management approach: Cybersecurity](#)

Privacy

At Enbridge we safeguard all personal information in our custody, including personnel, landowner and residential utility customer information. We strive to maintain the trust of our customers, communities, investors, regulators and policymakers, and employees through effective, secure, and innovative privacy and data management practices.

Oversight

Our Privacy Office is led by our Chief Privacy Officer and supported by a team of dedicated staff responsible for safeguarding all our personal information while also promoting a strong culture of privacy across the Company. The Privacy Office also sets policies and standards designed to help maintain stakeholder trust. We also have an Artificial Intelligence (AI) & Data Ethics Advisory Council – a cross-functional group consisting of internal stakeholders who oversee governance functions or have subject matter expertise in AI, law and ethics. This Council supports our implementation of Enbridge’s AI Policy which articulates ethical, responsible and transparent principles that govern the use of AI internally and through third-party service providers.



Our approach

We collect and use personal information for purposes reasonably required to conduct our business. This includes information gathered from customers, landowners, contractors and other individuals that is required to: confirm identity; meet legal, regulatory and contractual obligations; help maintain the safe and efficient operation of our business; provide information about using energy safely and efficiently; or to understand energy needs and preferences. Our Data Privacy Strategy is underpinned by the following four pillars:

- **Our stakeholders:** As our customer and community channels turn digital, customer privacy and personal information management expectations are changing.
- **Our competitive advantage:** Our business is expanding with acquisitions, new utility operations and innovative new business models.
- **Our technology:** Continued technological developments are generating and consuming more sensitive data that needs to be protected.
- **Our regulatory obligations:** The privacy legislative landscape is evolving continuously – our data handling safeguards are evolving to keep pace.

Key developments in 2024

In recent years, the protection of human data has proved dynamic and ever evolving against a backdrop of rapid digitization, emerging technologies such as generative AI and legislative privacy changes in Canada and the U.S.

In response to this changing environment, Enbridge’s Privacy Office and Technology and Information Services (TIS), in collaboration with numerous teams across the Company, undertook an ambitious multi-phased data privacy optimization program to manage this crucial asset.

In 2024, Enbridge launched a new unified data management platform which represents the next steps in both compliance and building upon our track record of stakeholder trust. The platform enables streamlining and automation of privacy controls and processes, while delivering transparency and choice for current and future customers and employees alike. Key accomplishments of the optimization program include:

- Regular scanning of personal data and continued monitoring to identify net new human data, protecting data privacy based on risk prioritization
- Enhanced user experience by seamlessly integrating cybersecurity and privacy risk assessments
- Average of about 40% less time spent to fulfill privacy rights/access requests from customers and employees

- User-friendly digital preference center for high-traffic external websites
- Automated tools and services for increased transparency and efficiency to protect our human data assets
- A flagship Data Privacy Center for employees, a digital concierge for all things privacy
- In January, we observed Privacy Week across our organization to highlight the role each of us plays in protecting personal information. As part of Privacy Week, we also observed International Data Privacy Day, a global event that promotes awareness around respecting privacy, safeguarding data and enabling trust. We engaged employees through internal communications that included data privacy best practices, commentary on how our privacy stewards take control of their data and shared a podcast from our Chief Privacy Officer.

 **Learn more**
[Privacy statement](#)

Climate-related disclosures

Task Force on Climate-related Financial Disclosures (TCFD)

Inside this section

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- 96 Metrics and targets

Governance for climate

We recognize that climate change is a global challenge and believe it is important to understand and manage climate-related risks to protect the environment and the communities in which we operate, and to support the achievement of our longer-term growth and diversification ambitions. Our governance practices for overseeing and assessing climate-related risks and opportunities include strong Board oversight and risk management practices, which we consistently refine to enable organizational accountability, transparency and stakeholder alignment.

This section updates our disclosure against the four pillars of the Task Force on Climate-related Financial Disclosures (TCFD) recommendations: governance, strategy, risk management, and metrics and targets. We released our first TCFD-aligned climate report in 2019 and have been working ever since to improve our understanding of evolving climate-related risks and opportunities, and our approach to managing them. Consistent with prior year reporting, we've included scenario analysis of our business units – Liquids Pipelines, Gas Transmission and Midstream, Gas Distribution and Storage and Renewable Power Generation – based on a range of cases including 1.5°C pathways. We refreshed our disclosures to reflect updates from our business units – in particular, identifying physical and transition risks, and associated mitigation and management measures, for each business unit.

Board's oversight of climate-related risks and opportunities

The Enbridge Board of Directors ("Board") oversees the Company's strategic planning process, including engaging regularly with management in order to maintain active oversight and strategic alignment. The Board holds at least one meeting per year dedicated to strategic planning and discusses updates with management at each regular Board meeting throughout the year. We regularly conduct scenario and resiliency analysis on our business strategy and our assets, including with respect to climate and climate-related policy developments.

In addition to being incorporated into the strategic planning process, climate-related issues are also incorporated into our risk management processes. The Board is ultimately accountable for identifying and understanding the Company's principal risks and ensuring that appropriate systems are implemented to monitor, manage and mitigate those risks (see the Risk management section on page 81). Our five standing Board committees have oversight over risks within their respective mandates. With respect to climate, the Sustainability Committee has primary oversight of Enbridge's climate and energy transition strategy (including GHG emissions reduction goals and targets).

Sustainability Committee

The Sustainability Committee has oversight of sustainability matters, including the Company's sustainability, policies and practices, performance and reporting (including with respect to GHG emissions). Specific policies that the Committee oversees include Enbridge's Climate Policy and Sustainability Policy. The Committee also has oversight of environmental, social, political and public policy trends, risks and opportunities that affect the Company's business strategy and performance, including those related to climate change and the energy transition – as well as the Company's priorities, policies, programs and processes related to these topics. The Sustainability Committee also monitors developments related to climate change and how Enbridge is responding to new regulatory and market dynamics on climate and energy transition issues, including the implications of provincial, state and federal policies in the U.S. and Canada regarding GHG emissions reduction, clean

electricity standards, methane emissions and new energy technologies including RNG, CCS and hydrogen.

In 2024, the Committee monitored developments related to climate and emissions reduction and how the Company is responding to new regulatory and market dynamics on climate and energy issues. The Committee also reviewed and discussed corporate and business unit commitments and progress on emissions reduction goals, with a focused update on plans to reduce methane emissions. Further, the Committee discussed with management key legislative and regulatory developments with implications for the energy transition, including the Inflation Reduction Act in the U.S. and the Canadian federal budget. The Sustainability Committee met four times in 2024. For more information about the Sustainability Committee's mandate and activities, please see the "Report of the Sustainability Committee" on pages 59 – 60 of the [2025 Management Information Circular](#) and the [Committee Terms of Reference](#).

Safety and Reliability Committee

Another Board committee with oversight of climate-related risks and opportunities is the Safety and Reliability (S&R) Committee. The S&R Committee's responsibilities include oversight of operational matters, including environment, health, safety, pipeline and facility integrity management, security, emergency preparedness and response, and other operational risks, including those relating to climate. The S&R Committee is responsible for overseeing the Company's policies directed at preventing and minimizing adverse environment, health and safety

impacts, which includes the potential physical impacts of climate change on the Company's assets. The S&R Committee met four times in 2024. For more information about the S&R Committee's mandate and activities, please see the "Report of the Safety and Reliability Committee" on page 58 of the [2025 Management Information Circular](#) and the [Committee Terms of Reference](#).

Climate competencies

We assess overall Board composition regularly and strive to ensure that Board as a whole possesses the skills, knowledge and experience required to oversee sustainability matters, including climate change and the energy transition. We also maintain a continuing education program for directors, focused on providing information relevant to our business and industry. In 2024, this included a specific session for the full Board on the energy transition and a session for the Audit, Finance and Risk Committee on climate-related disclosure. For a full description of the principal responsibilities of our Board of Directors, the skills and experience of each of our Board members, and the Board's oversight of risk, including sustainability and climate, please see the Director profiles (beginning at page 18), "Mix of skills and experience" (page 32), "Oversight of risk" (beginning at page 42), and "Sustainability and ESG" (page 51) sections of the [2025 Management Information Circular](#).

 **Learn more**
[2025 Management Information Circular](#)
[Sustainability Committee](#)
[Safety and Reliability Committee](#)

Management’s role regarding climate-related risks and opportunities

At Enbridge, the CEO has the highest level of oversight for climate-related issues and is responsible for:

- Developing and implementing a business strategy which considers environmental issues, including climate
- Managing mergers, acquisitions and divestitures and their impact on our environmental performance, including impact on our GHG profile and emissions reduction goals
- Managing major capital and/or operational expenditures relating to environmental issues
- Managing priorities related to mitigating the environmental impact of our operations
- Providing employee incentives related to environmental performance

The three Executive Leadership Team (ELT) positions that support the execution of climate-related strategies are the: EVP, External Affairs and Chief Legal Officer; SVP Safety, Projects and Chief Administrative Officer; and EVP, Corporate Strategy and President, Power. Each of these positions report directly to the CEO, which provides a direct link between functional leadership and the ELT (which includes the Presidents of each business unit) and allows for regular communication with the Board, including at each quarterly Board meeting. Their roles in assessing and managing climate related risks and opportunities are:

- The **EVP, External Affairs and Chief Legal Officer**, with the support of our Chief Sustainability Officer (CSO), is responsible for the development and implementation of Enbridge’s sustainability strategy and for ensuring that sustainability goals are communicated and embedded into business practices across the organization. Additionally, the CSO oversees our policies and reporting on climate change.

- The **SVP, Safety, Projects and Chief Administrative Officer** is responsible for the development and implementation of our emissions reduction strategy and oversight of the Environmental Protection group.
- The **EVP, Corporate Strategy and President, Power** is responsible for corporate strategy including advancing lower-carbon energy infrastructure opportunities across our businesses, including RNG, hydrogen and CCS. We believe these investments will increase our long-term resiliency in a lower-carbon scenario by modernizing and decarbonizing our own footprint while also enabling us to provide lower-carbon energy solutions to our customers to facilitate their own energy transition ambitions.

To further drive efficient collaboration on GHG emissions reduction activities across our business, last year we transitioned the Emissions Advisory Council and its mandate into the longer-term operating model of the Environmental Protection group under the direction of our Vice President, Safety and Reliability. This replacement of the council reflects our commitment to a longer-term operating model that embeds our emissions strategy into the organization. The mandate remains unchanged, drawing on the lessons learned from the Emissions Advisory Council’s experiences over the past three years. The Environmental Protection group has accountability for GHG emissions strategy development, execution and ongoing reporting of quantitative data to achieve our GHG emissions reduction targets. The Environmental Protection group is also responsible for measuring progress towards our GHG emissions reduction goals, conducting climate-related scenario analysis, and supporting GHG emissions reporting, audit and verification processes.

For more information about management’s role in assessing and managing climate-related risks and opportunities and our organizational structure, please see Enbridge’s [2025 Management Information Circular](#) (page 42), and section 4.3 of the [2024 CDP Corporate Questionnaire](#).

Sustainability and climate-related compensation

To hold ourselves accountable and to progress towards our sustainability goals (including our GHG emissions reductions goals), since 2021, we have incorporated these goals into the annual business unit and corporate function scorecards as part of the incentive compensation for all employees, including the CEO and executive management. For a complete list of business unit metrics in 2024, please see the [2025 Management Information Circular](#) (page 79).



Strategy

At Enbridge, we continually identify current and emerging climate-related physical and transition risks and opportunities, seek to understand their implications and stress-test their potential impacts on our operations. Our strategy aims to balance near-term imperatives with the importance of responding to the rapidly growing and systemic risk of climate change. We recognize the need to navigate near-term challenges while maintaining a strong focus on climate-related risks.

We use the same time horizons as our strategic and financial planning, including risk management, opportunity assessment, climate scenario analysis and transition planning. For all of our assessments, we define short-term as one to three years, medium-term as three to five years, and long-term as more than five years.

Climate-related physical risks

Climate-related physical risks arise as a result of changing and more extreme weather, which can damage our assets and affect the safety and reliability of our operations. Our assets are exposed to potential damage or other negative impacts from these kinds of events, which could result in reduced revenue from business disruption or reduced capacity and may also lead to increased costs due to repairs and required adaptation measures. Such events may also result in personal injury or damage to property and the environment. We have experienced operational interruptions and damage to our assets from such weather events in the past, and we expect to experience climate-related physical risks in the future, potentially with increasing frequency or severity. Mitigation is a high priority for us and includes asset integrity management, increased monitoring of assets and investments to improve the resilience of our infrastructure.

Our annual report on Form 10-K contains information on the risks applicable to Enbridge and is publicly available in the Reports and SEC Filings section of our [Investment Center](#). For more information about the Company's processes for identifying and managing risk, please see page 67 of this report and "Oversight of sustainability, ESG, and climate" (pages 42 – 43) of the [2025 Management Information Circular](#). Our understanding of the potential impacts of physical risks to our assets continues to evolve. A summary of climate-related physical risks, the parts of our business they impact (or could potentially impact) and our mitigation efforts are outlined on pages 81 – 96.



Leveraging technology for inspections after rainfall events

Across our operations, we expect to experience heavy rainfall events. In our oil storage terminals, we have dozens of oil tanks. After these events, water can accumulate on tank roofs, which adds weight and creates a risk of roof damage or sinking. Typically, after a storm, an employee inspects tank roofs by climbing and visually inspecting for water or oil.

Recently, we started using drones to conduct these inspections at Griffith and Hartsdale terminals. Using a drone for our type of work allows us to reduce fall risks and time spent on this task for our workers. The drone is able to see problems more quickly and effectively.

This project is a collaboration of our asset integrity team and our aviation department. We aim to make sure we use drones safely and following the regulations and rules applicable to unmanned aerial vehicles.

Risk management

Our ability to operate and achieve long-term success is linked to how well we identify and manage potential risks to our Company, including climate-related risks. Risk oversight and management is a critical role of our Board and our executive and senior management teams, who verify that risks are being identified, monitored, managed and mitigated.

Risk identification and assessment

Our annual Corporate Risk Assessment is a mature and bottom-up process to identify top risks and emerging trends (read more on page 67). As part of our Corporate Risk Assessment, we assess and rank risks based on their potential impact and probability. At Enbridge, climate is considered a factor that can impact other risks. To be sure we consider climate-related risks as part of our Corporate Risk Assessment, we ask individual risk owners to report on whether their risk and treatment assessments were impacted by physical risks or transition risks related to climate change. For physical risks, Enbridge considers both acute and chronic risks that result from climate change. Chronic risks include new precipitation patterns and events, altered river flows, and land shifting and subsidence. We also include climate-related events beyond Enbridge's control that could result in significant property damage or impairment of our operations and supply disruptions. For transition risks, we consider carbon-related regulations, market trends and other reputational risks brought on by the energy transition. Our business units are continuously evolving their understanding and risk mitigation efforts.

Risk management processes

The Corporate Risk Assessment not only compiles risks and trends, but also captures treatment measures and ongoing enhancements to the risk management programs. The Corporate Risk Assessment report is reviewed by the Board committees with responsibility for the risk categories relevant to their mandate. Board committees also oversee the implementation of systems that address risks within the scope of their responsibility and monitor their effectiveness. Each committee reports to the full Board, which coordinates the Company's overall risk management approach. Risk owners and specialists throughout our Company are responsible for continuously managing risks within their respective areas. Our ELT and the Operations and Integrity Committee are directly responsible for overseeing the management of our most significant operational risks.

We have identified a list of potential physical and transition-related risks and their specific mitigations starting on page 84 of this report.

Each business unit has internal processes for managing climate-related physical risks and exposure to the impacts of extreme weather and other natural disasters, including:

- Utilizing weather data such as long-term regional changes during the design of new sites or facilities so they are more resilient (facility siting and design and construction techniques).

- Partnering with research organizations and industry groups to monitor the resilience of our LP assets to extreme rainfall events and floods, including 100- and 200-year rainfall events. This helps determine the need for maintenance or replacement of company assets, including existing pipelines.
- Conducting enhanced inspection and maintenance of assets and pipeline rights-of-way (including on, and in the vicinity of, pipeline crossings at watercourses).
- Replacing pipelines at watercourse crossings and/or conducting watercourse rehabilitation to prevent further erosion.
- Establishing protocols for responding to elevated physical risks. We have robust emergency preparedness plans, business continuity plans and emergency response exercises.
- Aligning on contingency planning with other parties in broadly based logistics networks, which enables us to coordinate shutdowns in advance of severe weather events and make resumption of energy supply a priority following a storm.
- Planning for extreme weather events in operational response plans, including the installation of on-site emergency generators at many of our operational facilities to provide power in the event of extended outages (e.g., during ice storms).

We manage transition risks and opportunities through a robust and thorough strategic planning and investment review process, which includes:

- Ongoing review of energy market fundamentals, trends and milestones under a variety of scenarios to understand the pace and scale of the energy transition and how it may impact our financial position, asset utilization and business strategies.
- Alignment of our capital allocation framework to our GHG emissions reduction plans and targets, while incorporating long-term compliance costs and climate policy risk into our analysis.
- Evaluating opportunities to re-purpose and modernize our assets for lower-carbon investments such as RNG, hydrogen and CCS.
- Monitoring opportunities, including in renewable power, where development is expected to dramatically increase and where our existing operations, scale, partnerships, and asset development expertise enable us to compete for growth opportunities.
- Sharing our expertise and perspective regarding the energy transition in public conversations and through public policy processes, including with respect to harmonizing action across geographies and jurisdictions with industry groups and regulators helps to enable a consistent and rational energy transition.

Risk integration processes

After climate-related risks have been identified and assessed, we work to incorporate them into different aspects of our business. Some examples of this are:

Corporate Risk Assessment

- Climate-related risks are identified and incorporated within our annual Corporate Risk Assessment process.

Board Review

- Climate-related risks are reviewed quarterly by Board committees to verify that mitigation strategies remain effective.

Capital Allocation and Financial Planning

- Capital allocation decisions integrate environmental and social factors alongside global and regional energy supply and demand fundamentals, and competitive advantage opportunities based on costs, skills, technology, infrastructure and proximity to markets. Key sustainability factors assessed include safety, carbon pricing trends, emissions, stakeholder engagement, Indigenous engagement and economic opportunity.

- In our capital allocation framework, all potential investments must have a clearly identified path to net zero, are burdened with an internal cost of carbon, and are evaluated in the context of the energy transition to assess whether they align with our emissions reduction targets.
- When we evaluate project economics, we incorporate the current cost of carbon and estimated investments required to reduce emissions.
- Our financial planning processes are informed by climate-related risk and opportunities. For example, forecasted spending in asset integrity and maintenance takes into account physical risks such as extreme weather events, and long-term capital spending is informed by regulatory risks and other transition-related factors.



Resilience of our business strategy

We believe that developing all four of our core businesses to meet growing global energy demand while lowering emissions provides further resilience to our business as a whole. Our diversified energy mix and commercial models, early entry into lower-carbon investments and financial strength create strategic optionality and position Enbridge to be resilient under each of the assessed scenarios.

Diversified asset base

Over the past two decades, Enbridge has demonstrated our ability to diversify, as we evolved from primarily a transporter of crude oil to a highly diversified energy delivery company with a nearly equal balance of crude oil and natural gas delivery assets and a growing portfolio of investments in renewable power. The scale and diversity of our operations and the geographic diversity of our assets intrinsically mitigate financial risk. Our ongoing push to expand and modernize our existing footprint to provide safe, reliable and lower-emissions transportation services is expected to extend the life of our core businesses while our investments in renewable power and other lower-carbon technologies grow as new opportunities and supportive legislation continue to emerge. Our assets and operations span many jurisdictions across North America and Europe, which reduces market and regulatory risks. Our North American assets are strategically located and connect large and highly competitive supply basins that are both at lower risk of decline and that are well connected to export facilities that serve growing markets in Asia.

Low-risk commercial models

We operate under a variety of commercial models and maintain a combination of regulated and unregulated businesses with compelling value propositions and they are underpinned by predictable cash flows and have demonstrated reliable growth. We engage with regulators to support policy design within these regulated frameworks that considers and broadens the scale and scope of capital and cost recovery eligibility in a manner that reflects the evolving needs of our stakeholders. Regulated businesses also afford us the ability to invest in the longevity of our assets, by modernizing, decarbonizing and integrating new platforms, under low-risk cost recovery frameworks such as cost-of-service.

Early entry into renewables

Renewables are projected to be the world's fastest-growing energy source in all scenarios.¹ Governments and businesses alike are seeking lower-carbon energy to meet ambitious climate targets. We were an early investor in renewables, and we're adjusting our strategy to meet increased demand. Since our initial investment in a wind farm in 2002, we have allocated over \$11.7 billion toward projects in renewable energy and power transmission projects currently in operation or under construction.

Financial strength

Our free cash flow, strong balance sheet, BBB equivalent credit ratings and lending from more than 50 global banks provide continued access to low-cost capital and the flexibility to invest in our existing assets and new growth opportunities.

We believe these reasons position Enbridge for continued financial resiliency across all climate scenarios.



¹ <https://www.iea.org/reports/renewables-2024/global-overview>

Physical risks from climate change

The following physical risks represent direct risks to our operations that we are already observing and we believe will continue to increase in the long-term.



Floods and extreme precipitation

[Chronic and acute] Our energy delivery infrastructure is situated both above and below ground and, as a result, can be negatively impacted by extreme precipitation events.



Hurricanes and tornadoes

[Acute] Hurricanes and tornadoes are increasing in frequency and intensity. One of the most vulnerable areas in our operations is the U.S. Gulf Coast.



Storm surge

[Acute] In the event of continued global warming and associated climate change, the global mean sea level will continue to rise. While chronic sea level rise does not pose a risk to Enbridge's facilities, higher sea levels cause higher acute storm surges.

Business units impacted

LP GTM GDS

LP GTM GDS RP

LP GTM RP

Specific assets: LP's Ingleside Energy Center on the U.S. Gulf Coast, GTM's Houston office, GDS assets in North Carolina and RP's three windfarms in Texas.

Specific assets: LP's Ingleside Energy Center on the U.S. Gulf Coast and offshore crude oil pipelines. GTM's gas gathering and transmission pipelines on the U.S. Gulf Coast. RP's onshore windfarms on the U.S. Gulf Coast.

Potential impact

- Floods, extreme precipitation, washouts and landslides could displace buried pipelines and compromise ground slope stability in some locations, potentially leading to damage or exposure of critical pipeline infrastructure.
- Above-ground facilities (storage terminals, compressors or pump stations) can be damaged by flooding.
- Flooding can disrupt electrical supply causing service disruption.

- LP: Damage to tanks, equipment and other infrastructure, and/or a temporary halt to our operations to evacuate personnel.
- GTM: Staff working along the Gulf Coast may be impacted by hurricanes and there is potential for a temporary halt to our operations to evacuate personnel.
- GDS: Hurricanes can cause damage to services and strain on personnel.
- RP: Moderate to severe damage to wind turbines and/or solar panels from hail which may cause us to temporarily halt generation to prevent damage.

- LP: Tanks, pipelines, other facilities, footings or piping could be destabilized, damaged or suffer stresses during storm surges. Damage to facilities that handle oil could have environmental impacts.
- GTM: Salt water from storm surges can damage instrumentation, and the force can destabilize, damage or stress footing or piping.
- RP: Facilities which could experience foundations and electrical equipment being submerged under water.

Key mitigation activities

- Our three business units impacted have geohazard programs that proactively assess threats to our pipeline system. The program emphasizes inspecting slopes and water crossings. Read more on page 32.
- In response to the increased frequency of high-flow events, we have replaced pipelines at deeper burial depths below watercourse crossings and/or conducted watercourse rehabilitation to prevent further erosion. Read more on page 32.
- We inspect assets post-flood. Operational teams are required to verify that tanks with external floating roofs are checked for rain accumulation and verify that storm water is drained from roofs immediately following significant rainfall events.
- We have flood response guidelines and emergency response procedures.
- We have redundancy in our electricity supply in the event of an outage.

- Our facilities have been designed to withstand stressors such as hurricanes or tornadoes.
- We are currently trialing enhanced forecasting and prediction, complementing instrument-enabled forecasts with predictive modeling that will help us anticipate adverse events further in advance and respond more quickly by drawing down tanks or shutting down pipelines to reduce the consequence.
- We have a hurricane response system in place to limit the risks to Enbridge personnel and to help mitigate the potential damage to instrumentation.
- Solar panels have thicker glass and specific stow settings to minimize damage from hail.
- For extreme wind speeds, wind turbines will stop and pitch their blades so that they are no longer catching wind. Equipment at the wind farm measures wind speed and the turbines have software that triggers the protective measures. The Remote Operations Center monitors the weather forecast and can also shut down the turbines proactively ahead of weather events.

- LP: Enbridge Ingleside Energy Center has been sited and designed to withstand storm surges.
- GTM: Our coastal facilities (e.g., Venice) have been sited and designed to withstand storm surges.



Wildfires

[Acute] Grass, wildfires or forest fires resulting from hot weather are increasing in frequency and intensity. This is especially noticeable in Western Canada.



Increased mean average temperature and heatwaves

[Chronic and acute] Enbridge operates assets in diverse climatic conditions in North America, including areas exposed to extreme hot temperatures.



Extreme cold temperatures and ice storms

[Chronic and acute] Extreme temperature swings, particularly extreme cold in areas where cold weather is uncommon, have the potential to negatively impact the operation of our assets. Increasing frequency of ice storms, particularly in traditionally warmer climates, is expected.

Business units impacted	LPGTM	LPGTM	LPGTMGDSRP
Potential impact	- Wildfires can damage above-ground assets including pump stations, valve sites, storage terminals and surface pipelines. - Damage to assets can cause supply disruption. - Buried pipelines are less vulnerable to wildfires; however, fires damage many trees potentially causing slope instability which can damage pipelines. - Evacuations or damage to workers' personal property can limit the number of employees available to work.	- Rising ground temperatures may cause the product in our pipelines to increase in temperature, which can exceed design temperature limits. - For pipelines situated on, or within, permafrost, rising ambient temperatures have the potential to cause melting, potentially resulting in ground instability, water flow or erosion. - Extreme heat waves can lead to temporary disruption of services as a result of power outages (since we rely on power to move crude oil).	- GTM/LP: - In an extreme cold event, pipes can freeze and/or experience blockages, or water and ice can open threaded fittings. - Critical equipment such as generators and transformers may freeze or not start. - It can be difficult to mobilize personnel to respond during storms. - RP: Icing on wind turbines caused by extreme precipitation and cold temperatures can cause reduced power production, increased fatigue of components and risk of ice throw.
Key mitigation activities	- We contract specialized wildfire experts to actively monitor wildfire risks and provide wildfire forecasts. - We have agreements with wildfire services to turn off our pumps in the event of a wildfire that may threaten the safety of our assets. - Our design standards and vegetation management practices around pump stations or storage facilities help reduce wildfire impacts on our assets. - Together with applicable authorities, critical infrastructure partners and responders, we work to mitigate fire risk at critical sites by utilizing FireSmart guidelines, having protection equipment and activating emergency plans as needed. - When wildfires impact our workforce, we transfer employees from other areas to cover workforce shortages and maintain business continuity.	- If the ambient temperature is becoming unsafe, we may reduce the volume of crude we are transporting or bypass a compressor station or pump station. - We use cooling stations (heat exchangers) to mitigate temperature-related risks. - To keep the ground cold and stable (reduce permafrost melt), we insulate the right-of-way using wood chips.	- We have operational protocols in place to minimize the impact of personnel disruptions. - GTM: - We have winterization projects for assets in the Southern U.S. This includes wrapping valve sites to protect them from the cold and ice. - We conduct pre-storm preparation tasks. - GDS: We use proactive weather planning and system supply adjustments to support reliable supply to our customers during critical cold events. - RP: We have standard operating procedures to mitigate risk of personal injury and property damage relating to ice conditions. We also employ de-icing technologies and ice protection software at some of our wind farms across Ontario and Quebec.

Climate-related transition risks and opportunities

Climate-related transition risks and opportunities are those associated with the shift to a lower-emissions economy. We examine transition risks and opportunities in the following four categories:

- **Policy and legal:** Evolving government policy, legislation and regulations focused on climate change, as well as changing political and public opinion, stakeholder opposition and climate-related legal challenges, including litigation.
 - **Market:** Structural and other changes in supply and demand for traditional and lower-carbon energy.
- **Technology:** Technological improvements or innovations that support the transition to a lower-carbon economy and can have significant impacts on our ability to execute our strategy.
 - **Reputational:** Changes in perception arising from our ability to achieve our GHG emissions reduction goals and meet regulatory requirements and stakeholder expectations.

Our annual report on Form 10-K contains information on the risks applicable to Enbridge and is publicly available in the Reports and SEC Filings section of the Investment Center at enbridge.com. For more information about the Company’s processes for identifying and managing risk, please see page 67 of this report and “Oversight of sustainability, ESG, and climate” on pages 42 – 43 of our [2025 Management Information Circular](#).

The following list describes transition-related risks and opportunities arising in the mid-term (three to five years) and considers upstream and downstream impacts.

Transition-related issue	Risk	Opportunity	Response
Policy and legal			
1. Carbon-related regulation in Canada Many jurisdictions in which we operate are either increasing the stringency of – or introducing new – public policy to reduce economy-wide GHG emissions to align with temperature trajectories that mitigate the impacts of climate change. Key carbon-related policy and/or regulations that impact Enbridge include: the Technology Innovation and Emission Reduction (TIER) Regulation for large industrial emitters in Alberta, <i>Management and Reduction of Greenhouse Gases Act</i> in Saskatchewan, Made-in-B.C. Output-Based Pricing System (OBPS) in B.C., Emissions Performance Standards in Ontario, Western Climate Initiative-linked cap-and-trade system in Quebec, the Federal Greenhouse Gas Pollution Pricing Program and Canadian federal OBPS for certain facilities.	LP GDS RP Enbridge has current exposure to carbon pricing in the form of a carbon charge, carbon levy or other carbon pricing frameworks. These costs could result in the following risks: LP: Direct carbon charges increase our operational costs, which are recoverable under our shipping agreement and can negatively impact financial return for shippers. GDS: Carbon-related regulations which restrict the use of natural gas or limit GHG emissions could lead to a loss of customers and/or lower natural gas consumption. RP: Uncertainty of carbon prices can impact the economic viability of renewable energy projects, which rely on generation of carbon credits.	RP In Alberta, renewable energy generation is eligible for generation offset credits that can be used for compliance purposes. These credit sales may contribute to increased opportunities to deploy capital into renewables in Alberta and improve return thresholds on deployed capital.	We have set goals to reduce GHG emissions from our operations (Scope 1 and Scope 2). Our 2030 goal is to reduce the GHG emissions intensity from our operations by 35% from 2018^{1,2} levels, which we met in 2023. We are actively seeking opportunities to minimize our GHG emissions throughout our operations. Achieving this target ahead of schedule underscores our commitment to reducing emissions in regions where we operate. LP: We continue to pursue investments in carbon capture to support customers in their GHG reduction goals. For example, Enbridge plans to provide carbon transportation and storage services as part of the Wabamun Carbon Hub, which is also expected to generate TIER credits. GDS: Enbridge Gas Ontario promotes energy conservation and efficiency through our Demand Side Management program. We are also pursuing opportunities to reduce emissions through low-carbon gases, such as RNG and hydrogen. Through our Enbridge Sustain non-regulated service, we offer customers gas and electric options for space heating and cooling and water heating, as well as solar photovoltaic panels. RP: To take advantage of opportunities, we continue to invest in renewable energy including solar and wind power. Read more in our Climate change and the energy evolution section.

¹ GHG emissions included within our targets are from assets over which we have operational control (Scope 1 and Scope 2 emissions). Projected reductions of GHG emissions intensity and absolute emissions is relative to the 2018 baseline year.

² This metric aggregates emissions and throughput for each business unit on the basis of tonnes of carbon dioxide equivalent per energy delivered in petajoules.

Transition-related issue	Risk	Opportunity	Response
Policy and legal			
2. Oil and gas emissions cap In November 2024, the Government of Canada introduced draft regulations that set a cap on GHG emissions from the upstream oil and gas sector, along with LNG facilities, at 27% below 2026 levels, which is estimated to be equivalent to 35% below 2019 levels.	LP GTM LP: Although Enbridge is unlikely to be directly impacted by the emissions cap, we are exposed through pipeline connections in the Alberta Oil Sands. Without investment in emissions reduction technology, including carbon capture, upstream producers may curtail production to comply with the cap which may result in reduced throughput in Enbridge’s Mainline that connects oil sands with downstream markets. GTM: Higher costs associated with compliance can lower the financial return on approved LNG projects or raise the barrier to entry for new LNG projects.	LP An increasingly stringent regulatory environment may result in increased deployment of capital to meet the cap and create opportunities to partner with upstream customers to support decarbonization projects (e.g., carbon capture and storage).	Read more about our current investments in carbon capture on page 25. We are investors in Woodfibre LNG, an LNG export facility near Squamish, B.C. This facility is designed to avoid GHG emissions where possible and offset any residual emissions through the use of carbon offsets and/or other technologies to capture carbon.
3. Methane regulation In 2024, the EPA released a final rule to minimize methane emissions for new and existing oil and natural gas facilities, coupled later with a fee for excess emissions. Canada has proposed amendments to the methane regulations for upstream oil and gas to enable the achievement of a 75% reduction from 2012 by 2030. Key aspects of the amendments published in 2023 include a virtual elimination of all venting and flaring, implementing robust leak detection and repair programs, and optimizing equipment operations to reduce emissions.	GTM GDS Discrepancies in legislation across jurisdictions increase the complexity of maintaining compliance. Based on the proposed changes to measure, report and mitigate methane in U.S., Canada and Europe, we expect an increase in costs to report and maintain compliance. In North America, costs will largely flow through the regulated rate base to customers, potentially affecting the competitiveness of natural gas as an energy source, especially for new builds or extensive building retrofits.	GTM Complying with stricter methane regulations may improve the carbon competitiveness of North American natural gas in the global LNG space.	We continue to implement processes and technologies to reduce methane emissions across our assets. Read more in our Climate change and the energy evolution section.

Transition-related issue	Risk	Opportunity	Response
Policy and legal			
4. Policies that drive energy transition investments Countries are implementing policies to support renewable power and GHG reduction technologies. Key policy and/or regulations that impact Enbridge include: REPowerEU, the U.S. Inflation Reduction Act (IRA), Canada's <i>Clean Fuel Regulations</i> (CFR) and Canada's <i>Clean Electricity Regulations</i>, B.C. and Quebec's Blend Mandates, and the Clean Technology Tax Credit in Canada and the U.S.	LP GTM GDS The cost of compliance with the CFR will likely result in higher prices for liquid fuels, which may accelerate electric vehicle adoption and reduce oil demand. Regulations or building codes which can limit or phase out the use of natural gas (in power generation or buildings) could lead to GTM and GDS assets becoming underutilized.	LP GTM GDS RP GTM: Increased opportunity to serve gas-fired power generation load to support increasing levels of renewables penetration. GDS: Opportunity to support customer fuel switching from diesel to compressed natural gas in the heavy-duty transport sector through the generation of Clean Fuel Regulation Credits. RP: Some of these regulations create positive economic conditions for increased investment in renewables, including wind and solar in Europe and North America. Many existing and prospective policies and funding associated with RNG, hydrogen and CCS can lead to opportunities for Enbridge to deploy capital and diversify earnings.	GDS: We support our customers in using energy more efficiently (which can reduce their emissions) through our DSM program and offer hybrid heating and other alternatives through our non-regulated service Enbridge Sustain. We also support our customers' access to natural gas to meet increased demand. RP: We continue to invest in renewable energy across North America and Europe. Read more in our Climate change and the energy evolution section.
Market			
5. EV adoption may decrease oil demand The adoption of electric vehicles and the resulting increase in electrification in advanced economies may lead to declines in demand and/or sustained lower prices for crude oil in North America.	LP In the event of reduced demand for oil in North America, there is a risk that there is a reduction in supply from basins such as the Western Canadian Sedimentary Basin, which could translate into reduced flows on some of Enbridge's assets.	GTM GDS RP GTM/GDS: Enbridge can support energy grid resiliency by supplying natural gas for gas-fired power generation. RP: A reduction in demand for oil in North America is linked to increased demand for EVs and an increase in demand for electricity and renewable power. Enbridge has an opportunity to meet this demand through its RP business.	

Transition-related issue	Risk	Opportunity	Response
6. Continued and/or increased demand for oil and natural gas from Asia Pacific Oil: Asia Pacific is one of the world's fastest growing oil markets, with demand expected to rise by 5.5 million barrels per day from 2022 to 2028, which represents 90% of the total global demand growth.¹ Gas: Asia demand for LNG, for petrochemicals and other applications continues to increase.²		LP GTM LP: Enbridge can support increased crude oil export through its pipelines and terminals. GTM: There may be opportunities to expand our systems and optimize flow given our connections between some of the most prolific natural gas supply basins and U.S. and Canadian LNG export facilities.	LP: We own and operate Enbridge Ingleside Energy Center, the largest crude oil storage and export terminal by volume on the U.S. Gulf Coast. GTM: On the Gulf Coast, Enbridge connects 15% of LNG export capacity, and we expect that number to double by 2030 through a number of projects currently underway. In British Columbia, we are investors in Woodfibre LNG to serve growing markets in Asia. Read more about our investments in LNG.
Market			
7. Reducing and/or reconfiguring of refining capacity Changes in refining capacity that arise from changes in end-use demand for lower-carbon and alternative liquid fuels (renewable diesel, other biofuels, etc.).	LP There is potential for lower demand for crude oil at refineries we deliver to in PADD II, III and IV that could have a negative impact on Mainline throughput.		LP: Enbridge uses commercial tools (i.e. tariff flexibility) which increases competitiveness of assets and supports throughput. Enbridge constantly evaluates its system configuration in order to adapt to changing oil flows.
8. Lack of regulatory certainty and volatility in the speed of transition Periods of global volatility can accelerate or decelerate the progress of GHG reductions. Factors such as regional conflicts, global inflation and high interest rates have heightened energy security and affordability concerns globally (at the expense of GHG reductions) in the near term.	LP GTM GDS RP Political change creates uncertainty, and the lack of regulatory durability makes it difficult to make investment decisions. Given that most energy infrastructure requires long lead times for development, and many of our assets are regulated, abrupt changes and volatility in energy demand might make it challenging to manage the pace of GHG emission reductions.		We engage with regulators and customers to proactively address issues and reduce the impact of this volatility. Read more on our advocacy efforts in the Political advocacy and accountability section.
Technology			
9. Advancement in carbon-related technologies We foresee advances in many technologies (renewable power, CCS, hydrogen, RNG, ammonia) that can help us reduce our emissions, extend the life of our assets and diversify our business.	LP GTM GDS Achievement of our emissions reduction targets requires innovation and relies on modernization of existing assets. There are several risks, including the pace of technology development; delays or changes in regulatory approvals of new technology (e.g., Carbon Contracts for Difference) that make it more difficult to implement solutions; or that costs associated with new technologies are too high, making it uneconomic to meet GHG emission reduction targets.	LP GTM GDS RP Advancements in technology present great opportunities for Enbridge to further diversify our earnings through the deployment of capital into lower-carbon technologies.	We invest in renewable power, hydrogen, RNG and CCS. Read more in our Climate change and the energy evolution section. We also invest in blue ammonia through our partnership with Yara for a facility to be co-located in our Ingleside Energy Center. Read more.

¹ IEA. <https://iea.blob.core.windows.net/assets/cc7fd38f-3d68-4796-a958-8dfa3f3ef4a6/Oil2023.pdf#page=33>

² <https://about.bnef.com/blog/global-ing-winter-outlook-2024-25-slightly-bullish-start>

Transition-related issue	Risk	Opportunity	Response
Reputational			
10. Perception around fossil fuels and pipelines Negative perceptions around fossil fuels, in general, or around pipelines as enablers.	LPGTMGDS Negative perceptions can result in investor or regulator concerns about stranded assets and can impact our ability to secure capital or to complete new projects. In recent years, there has been an increase in climate-related regulatory action and litigation which has the potential to adversely impact our reputation, business, operations and financial results.		Our energy infrastructure is built for long-term reliability and designed to deliver the energy our customers need. It also has the potential to transport low-carbon fuels such as hydrogen, RNG and carbon dioxide. We currently transport RNG for our customers in both the U.S. and Canada and are piloting hydrogen blending. We continue to share information with investors, regulators, customers and the public about our GHG emissions reduction efforts and our beliefs about the benefits of combining conventional forms of energy (oil and gas) with renewable energy.
11. Concerns around new technologies There are stakeholder concerns about the safety and environmental impacts of renewable energy projects, and around transporting or storing carbon, ammonia and hydrogen.	LPGTMGDSRP Perceptions that the risks of these new technologies outweigh the rewards can impact our ability to secure capital or to complete new projects.		We continue to engage with a range of stakeholders, including local and Indigenous communities located in proximity to our conventional energy or renewable energy assets.
12. Climate-related disclosures Standards and processes for climate-related disclosure, including setting climate-related goals, measuring and reporting on progress against those goals, are still developing for our sector and continue to evolve.	LPGTMGDSRP Failure to comply with new standards or to meet set goals can negatively impact our reputation.		We continue to monitor developing disclosure standards and expectations, and to adjust our disclosures and plans accordingly.

Transition scenarios

We believe it is prudent to continually update our view of market fundamentals in the context of the energy transition by synthesizing third-party research and internal analysis. Given the nature of our business, we place significant emphasis on assessing the pace of the energy transition and we monitor transition-oriented trends (e.g., electric vehicle adoption, coal to gas switching and renewables cost competitiveness) regularly as a management team and with our Board. Doing so helps inform our views and allows us to align our portfolio mix and strategy accordingly. These trends continue to support our balanced approach, as we see ongoing need for conventional energy sources and lower-carbon solutions.

In addition to monitoring these trends, we also put a great deal of effort into evaluating how quickly the energy system can realistically change, considering geopolitical, policy, regulatory and economic factors, many of which are also assessed annually by third parties. Increasing uncertainty and volatility underscore the need to perform scenario analysis to identify and assess climate-related transition risks and opportunities in our business, strategic and financial planning. Conducting scenario analysis also provides insights that inform our business strategy and protect the longevity of our core businesses.

We routinely assess the fundamentals of our business under a variety of scenarios, including the prominent and widely referenced IEA World Energy Outlook scenarios. The IEA released its latest flagship report in October 2024 with updates to its regular Stated Policies Scenario (STEPS), Announced Pledges Scenario (APS) and the back-casted Net Zero Scenario Emissions by 2050 (NZE). We believe it is critical to consider different climate-related scenarios as part of our overall corporate strategic outlook to better identify risks and opportunities. In this disclosure, we focus on the three IEA scenarios (STEPS, APS and NZE) to describe potential risks associated with the pace of the energy transition, and to assess the resiliency and strength of our assets and business strategies.

- STEPS outlines a view of energy system progression based on the current policy landscape and actions of governments to reach their targets.
- APS outlines an energy future based on governments meeting all of their announced pledges in full and on time, and reflects a more ambitious transition to a low-carbon economy.
- NZE is a normative, or “backcast,” approach that makes assumptions on the required global energy system to meet a 1.5°C temperature target and net-zero carbon emissions. While backcast scenarios do not account for the feasibility of the pathway, they are instructive in understanding the degree of change necessary.

 **Learn more**
For more information on these scenarios, and their assumptions, see the IEA’s [World Energy Outlook 2024](#).



Scenario analysis for each business unit

We routinely assess the fundamentals of our business under a variety of scenarios, including the prominent and widely referenced International IEA World Energy Outlook scenarios. The IEA released its latest flagship report in October 2024 with updates to its regular Stated Policies Scenario (STEPS–2.4-degree rise), Announced Pledges Scenario (APS–1.7 degree rise) and the back-casted Net Zero Scenario (NZE–1.4-degree rise). For more information on this, and scenario assumptions, please see the [IEA World Energy Outlook 2024](#).

Over the following pages we present our analysis along with the sources of resilience for each business unit.

Liquids Pipelines

Actuals	Key scenario assumptions		
	STEPS–2.4-degree rise	APS–1.7-degree rise	NZE–1.5-degree rise
Global liquids demand	104.6 MMbpd by 2030	97.9 MMbpd in 2030	Limited data provided in the context of the back-casted Net Zero Scenario
101.4 MMbpd in 2023	97.8 MMbpd in 2050	64.7 MMbpd in 2050	
North America oil production	29.5 MMbpd by 2030	26.3 MMbpd by 2030	
27.4 MMbpd in 2023	23.8 MMbpd in 2050	14.8 MMbpd in 2050	
North America oil demand	21 MMbpd by 2030	18.8 MMbpd by 2030	
22.1 MMbpd in 2023	14.5 MMbpd in 2050	6.3 MMbpd in 2050	
North American oil exports	10.4 MMbpd by 2030	9.8 MMbpd by 2030	
5.6 MMbpd in 2023	8.9 MMbpd in 2050	8.3 MMbpd in 2050	

Key implications

Stated Policies Scenario

- Oil demand globally and within North America remains strong near-term, but starts to decline longer-term, which may pose challenges for higher cost North American refiners and less competitive supply basins.
- Despite gradual decline in North American oil supply, Enbridge assets are connected to strong refinery centers and export capacity, ensuring resilience.
- Increasing demand for oil in Asia Pacific results in increased exports from North America, and ongoing utilization of Enbridge corridors and export terminals.

Announced Pledges Scenario

- Longer-term, and steeper declines in North American supply results in excess liquids pipeline capacity throughout North America, especially from 2040 to 2050.
- Assets connected to low-cost basins (i.e. Permian, WCSB and refiners (i.e., PADD II and III) and that deliver to export terminals (i.e., Enbridge Ingleside Energy Center) that supply more resilient Asia Pacific demand will fare better than assets connected to higher cost and/or higher carbon intensity basins and refiners.
- Declines in supply from Canada could lead to modest excess capacity from the WCSB, which may lead to competition for marginal barrels on the basis of cost of service, and potentially carbon intensity of operations.

Net Zero Scenario

There is insufficient information or data to draw any conclusions.

Sources of resilience

In scenarios with modest declines in demand, we will benefit from being:

Connected to low-cost supply

Enbridge pipelines connect low-cost oil producers (i.e., producers in these basins break even at prices estimated in the APS scenario) in the WCSB and Permian basin.

Connected to stable and resilient supply

The WCSB and Permian basin are dominated by well-capitalized companies. Most of the capital required for oil sands development is upfront, which, after the initial investment, supports production for many years. Oil sands production has low sustaining and operating capital requirements and is profitable at low oil prices.

Supplying competitive refineries

Our assets are positioned to supply North America's largest (and some of the world's most competitive) refining centers located in PADD II and III.

Connected to export hubs

We can deliver excess North American supply to the global market through our existing U.S. Gulf Coast tidewater access and our crude oil export terminal, Ingleside Energy Center.

In addition to the same resilience sources from STEPS and APS, in an NZE scenario Enbridge could:

Accelerate diversification

Enbridge is well positioned to accelerate its diversification strategy by having built optionality across conventional and lower-carbon businesses.

Optimize cost recovery

Under the assumption that “no new long-lead time oil and gas development is needed,” regulated entities, like Enbridge, will seek to optimize tolling and rate frameworks so investors can recover invested capital.

Gas Transmission and Midstream

Actuals	Key scenario assumptions		
	STEPS–2.4-degree rise	APS–1.7-degree rise	NZE–1.5-degree rise
North America gas production	1,319 bcm by 2030	1,153 bcm in 2030	Limited data provided in the context of the back-casted Net Zero Scenario
1,323 bcm in 2023	1,073 bcm in 2050	409 bcm in 2050	
Natural gas as % of energy supply in North America	36% in 2030	32% in 2030	
36% in 2023	28% in 2050	14% in 2050	
LNG exports increase	163% by 2050	118% by 2035	
compared to 2023			
LNG capacity	690 bcm in 2030	653 bcm in 2030	539 bcm in 2030
580 bcm in 2023	830 bcm in 2050	290 bcm in 2050	145 bcm in 2050
Global hydrogen production	7.0 Mtpa by 2030	25 Mtpa by 2030	70 Mtpa by 2030
1.0 Mtpa in 2023			
RNG global consumption	4,779 PJ by 2050	6,234 PJ by 2050	7,363 PJ by 2050
218 PJ in 2023			

Key implications

Stated Policies Scenario

- Modest declines in North American gas production levels and stable industrial and building demand for natural gas through 2050 result in minimal changes in flow patterns and throughput across most of North America.
- Declines in natural gas as a percentage of energy supply in North America is largely driven by the increase in renewables. However, natural gas will be the replacement for coal-fired power generation in several states, including those traversed by Enbridge assets (i.e., Texas Eastern).
- Global liquefaction capacity expansion increases to meet global demand and North America LNG exports are an important component of the global supply but there may be a short-term oversupply. However, additional capacity is required to meet the global LNG demand after 2040.

Announced Pledges Scenario

- The modest decline in natural gas share of total energy supply in North America by 2030 will result in supply rationalization to low-cost basins.
- Low-cost, well-connected basins, such as Appalachia and Permian, that are served by GTM assets, provide a significant share of North America supply.
- Despite LNG export increases driven by near term Asia Pacific demand, excess liquefaction capacity globally means that U.S. facilities may risk some underutilization. It is important to note that a significant portion of these volumes are protected by long-term agreements. Since GTM assets directly serve North American liquefaction capacity, there is a potential for modest throughput reductions in this scenario.

Net Zero Scenario

- Natural gas plays a significant role in the production of hydrogen, especially blue hydrogen, which is produced from natural gas with carbon capture. Hydrogen can be a key component in achieving net-zero emissions, as it can be used in various sectors, including transportation and industry, to reduce carbon emissions.
- As the share of intermittent renewable energy sources like wind and solar increases, natural gas can provide flexibility and reliability to the energy system.
- In this scenario RNG consumption is expected to grow significantly to meet net-zero emissions. RNG captures methane emissions from waste and can be used interchangeably with conventional natural gas.

Sources of resilience

With connections to utilities, industrial demand and LNG exports, we expect GTM assets to be a critical link in energy infrastructure through a changing energy environment. These factors help us in increasing degrees in each of the three scenarios:

Connected to abundant and low-cost North America basins

Enbridge connects Appalachia, Permian, Montney and other abundant and productive basins to large demand centers across North America. These basins boast some of the lowest break-even costs in North America and are considered resilient against price fluctuations. In aggregate the technically recoverable reserves across North America are sufficient to service almost 100 years of demand (with LNG exports).

Natural gas can be used for peak demand

As renewable generation becomes a larger part of the grid, its intermittent electricity production will likely necessitate natural gas or batteries to support reliable energy. Natural gas can be an energy source for peak electricity demand management and used for reliability and resiliency purposes. Due to its operational

properties, there is no like-for-like replacement for natural gas power generation (i.e., it can be ramped up and down easily, and natural gas can be stored for long periods of time).

Connected to stable demand from utilities and industrial customers in U.S. northeast

We are connected to critically important regions like the U.S. northeast with larger thermal loads (power generation and industrial loads). These regions have modest solar and wind capacity factors and more land constraints for new builds (i.e., it is becoming increasingly difficult to build new pipeline infrastructure).

Connected to LNG exports hubs

Our assets in Canada and the U.S. Gulf Coast have well-established access and existing connectivity to the growing Mexico and LNG export markets. With shifting global LNG fundamentals, we expect there will be further opportunities to grow our LNG export facilities. In the U.S., our extensive infrastructure footprint has the capacity to serve 30% of LNG exports on the Gulf Coast. In Canada, we have invested in Woodfibre LNG and a planned capacity increase on our Westcoast pipeline system.

Able to transport low-carbon fuels

Existing Enbridge pipelines and systems are equipped to accommodate an increasing volume of blended RNG with minimal capital investment. We continue to search for innovative ways to use our existing infrastructure for other purposes, and are prepared to pivot as necessary. For example, we invested in Smartpipe technology – a retrofit solution that enables existing pipelines to transport hydrogen and carbon dioxide. This type of innovation aims to ensure that our infrastructure is capable of pivoting as the energy transition and fundamentals require.

Gas Distribution and Storage

Actuals	Key scenario assumptions		
	STEPS–2.4-degree rise	APS–1.7-degree rise	NZE–1.5-degree rise
North America natural gas prices \$2.70 per million Btu (MBtu) in 2023	\$3.9 per MBtu by 2030	\$3.2 per MBtu by 2030	\$2.1 per MBtu by 2030
	\$4.2 per MBtu by 2050	\$2.9 per MBtu by 2050	\$2.0 per MBtu by 2050
North America natural gas consumption 40,953 PJ in 2023	39,058 PJ in 2030	33,323 PJ in 2030	Limited data provided in the context of the back-casted Net Zero Scenario
	28,278 PJ in 2050	12,792 PJ in 2050	
Global hydrogen production 1.0 Mtpa in 2023	7.0 Mtpa by 2030	25 Mtpa by 2030	70 Mtpa by 2030
RNG global consumption	4,779 PJ by 2050	6,234 PJ by 2050	7,363 PJ by 2050

Key implications

Stated Policies Scenario

- The increase in natural gas prices from current levels may make natural gas somewhat less competitive and could slow growth in demand.
- There may be a disproportionate impact in some North American jurisdictions where demand decreases are greater due to more rapid building electrification, depending on adoption regulations and/or building codes.
- Although there are only small declines in natural gas overall and use within buildings, the flat demand profile also suggests there may be limited opportunities to extend the distribution footprint and add to rate base in some jurisdictions.

Announced Pledges Scenario

- Natural gas prices remain low and competitive, especially for commercial and industrial loads that are price sensitive and that have limited alternatives.
- It is assumed that policy and regulations limit natural gas use in buildings, which leads to material declines in natural gas demand overall and may lead to underutilization of assets.

- Declines in natural gas demand may increase regulatory risk (process timeline and approval certainty) for GDS capital projects, including integrity projects, due to concerns regarding risk of underutilized assets.

Net Zero Scenario

- Natural gas usage is limited by policies and regulations; however, use of RNG and hydrogen gas become more widespread and incentivized.
- Hydrogen and/or hydrogen blends may become more widely distributed in the future; however, advancements in infrastructure and customer equipment that can accommodate hydrogen are required to bring hydrogen into the distribution network in a meaningful way.
- Lower demand for natural gas results in lower natural gas prices. Premiums for RNG and hydrogen, relative to natural gas, moderate demand.
- NZE suggests RNG will supply a significant share of the residual natural gas demand, resulting in RNG supply developments.

Sources of resilience

We actively monitor and track external energy transition factors related to policy signals (federal/provincial/municipal), market trends (such as builder and consumer preferences), and stakeholder feedback (customer, municipal and Indigenous) to evaluate and assess the potential impacts to business and system planning. Energy transition initiatives are put forward in regulatory applications for review and approval by the regulator.

In all scenarios, we will continue to leverage:

Energy efficiency efforts

Enbridge promotes energy conservation and efficiency through various demand-side management programs offered across markets that reduce individual customer demand and cost, which in turn helps to maintain overall demand and sustained competitiveness of natural gas.

Resiliency in extreme weather

Underground natural gas pipelines are more resilient in comparison to above-grade electric assets, which are more susceptible to extreme weather conditions, both in terms of intensity and frequency of events.

Already investing in low-carbon tech

We continue to enable the RNG market by providing utility RNG interconnect services. Investments in blending RNG and hydrogen production projects can enhance our distribution assets' longevity and enable us to offer a lower-carbon service to utility customers.

Natural gas can be used for hybrid heating

Natural gas can be paired with an electric heat pump with smart controls to provide space heating, in a system called hybrid heating. Hybrid heating switches between electricity and natural gas to heat the home as efficiently as possible, which helps customers to reduce energy costs and their carbon footprint. Hybrid heating allows for natural gas to support at peak demand periods and reduces the need to build-out the electric system, which reduces electric system infrastructure costs.

Existing infrastructure can be repurposed

Our existing infrastructure can be used to transport lower-carbon gases, including hydrogen and RNG. In Ontario, we are evaluating our systems' ability to transport up to and including 100% hydrogen.

Advocacy efforts

Through open and transparent connections to regulators and customers, we educate and advocate for the role of natural gas, RNG and hydrogen in supporting an effective energy transition.

Renewable power

Actuals	Key scenario assumptions		
	STEPS–2.4-degree rise	APS–1.7-degree rise	NZE–1.5-degree rise
Global renewable capacity	9,768 GW in 2030	10,918 GW in 2030	11,495 GW in 2030
4,246 GW in 2023	23,218 GW in 2050	29,355 GW in 2050	33,179 GW in 2050
Renewable energy investment	\$1.8 trillion/yr by 2030	\$3.1 trillion/yr by 2030	\$4.2 trillion/yr by 2030
US\$750 billion in 2023			
Renewables as part of North American energy supply	16% in 2030	23% in 2030	Limited data provided in the context of the back-casted Net Zero Scenario
11% in 2023	34% in 2050	58% in 2050	

Key implications

- Increasing the share of renewables from 11% to much higher percentages (as outlined in all the scenarios) will require significant capital deployment.
- The capital-intensive nature of large-scale renewables development will continue to favor organizations with (a) competitive cost of capital, (b) large balance sheets, and (c) existing expertise.
- With many of the best land-based locations already developed, organizations with deep development pipelines of the next tranche of sites and those with experience in renewables development will be well positioned to deploy significant capital into renewables.
- The magnitude of the opportunity to deploy capital becomes substantially higher in the NZE, and the commercial structures underpinning such a scale of development will need to ensure appropriate returns and risk allocation.

Sources of resilience

Enbridge is well positioned to participate successfully in this growing sector. Some of the reasons for our resilience are:

We already own and operate renewable power assets

We have a stake in 6.6 GW of offshore and onshore wind, and solar projects under construction and in operation in North America, England, France and Germany (3.5 GW net of our partners' stakes).

Leveraging our capabilities

Enbridge's full development-to-operation capabilities in the renewable energy sector enables us to explore a broad range of available opportunities.

In a more aggressive NZE scenario, we can continue:

Expanding our investments

Under current conditions, we see \$1-2 billion in annual onshore and offshore growth opportunity for Enbridge in the jurisdictions we already operate. These opportunities could increase under a scenario that requires accelerated renewable deployment.

Leveraging our strengths

Balance sheet capacity, cost of capital, and development and operating expertise position Enbridge to compete effectively in sectors experiencing exponential growth.

Metrics and targets

Enbridge tracks several metrics to monitor climate-related risks and opportunities. These include GHG emissions (i.e., Scope 1, Scope 2 and select categories of Scope 3), total energy consumption, demand-side management, water use and renewable energy capacity. These metrics can be found in our [2024 Datasheet](#).

Metric	Page
Greenhouse gas emissions	5
Demand-side management	6
Total energy consumption	8
Water use	8 – 9
Renewable energy capacity	10

Despite limited guidance defining Scope 3 parameters for the midstream sector, Enbridge is committed to tracking and reporting select Scope 3 emissions. In addition to Scope 3, we’ve developed two metrics aimed at enhancing our understanding of upstream and downstream GHG impacts. The first metric measures the **Upstream emissions intensity** (page 29) of the energy Enbridge delivers on behalf of its customers. Over time, this metric will reflect both emissions reductions achieved by upstream energy producers and how further diversification of our business impacts our emissions profile. The second metric, **Helping society reduce emissions** (page 29), illustrates how Enbridge’s lower-carbon investments – including renewable energy, RNG and demand-side management – help to reduce third-party emissions and advance the energy transition.

Climate-related targets

We adopted two GHG emissions reduction targets which align with our strategy to participate in the energy transition over time, while continuing to provide the energy people need and want. Enbridge aims to reduce the intensity of Scope 1 and Scope 2 GHG emissions from our operations by 35% by 2030 from 2018 and achieve net-zero Scope 1 and 2 emissions from our operations by 2050. In setting GHG emissions reduction targets, we are acknowledging our responsibility to address our operational emissions over time. Achievement of our emissions reduction targets relies on innovation across our entire energy system, namely the modernization and innovation of existing assets; utilizing lower-carbon power sources for our pumps and compressor stations; investments in renewables and lower-carbon infrastructure and the use of offsets and carbon credits where necessary to address the emissions that are hardest to abate. To learn more about these targets and the pathways to achieve them, please see “Climate change and the energy transition” on pages 16 – 29 of our 2024 Sustainability Report.

To drive progress toward our targets, we’ve established a governance structure with a steering committee, working groups and action plans.



Appendices

A photograph of an industrial facility, likely a refinery or chemical plant, featuring large, insulated pipes and a bright sun in the background. The sun is low on the horizon, creating a lens flare effect. The pipes are made of metal and have a corrugated, insulated appearance. They are arranged in a series of curves and straight sections, supported by black metal brackets. The ground is a mix of gravel and dirt. In the background, there are more industrial structures and a clear blue sky.

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Indigenous Reconciliation Action Plan progress

Pillar 1: People, employment and education

Commitment	Goal	Ongoing journey of progress in 2024	Timeline
Talent attraction and recruiting			
Establish flexible work placements and opportunities for Indigenous people that account for regional and cultural considerations across Canada and the U.S.	• Implement the Indigenous Employment Plan to account for Indigenous culture, regional/remote considerations and legal considerations, as appropriate. • Continue education for U.S. and Canadian employees about expanded cultural flexibility within designated leave programs and reinforce that this exists with U.S. employees. • Host a minimum of four listening sessions with Indigenous employees across Canada and the U.S. to understand top priorities and potential barriers to inclusion in the workplace. • Refresh Indigenous Employment Plan based on feedback received within listening sessions.	• Creation of Indigenous Employment Plan. • Creation of designated cultural leave program. • Elder support available through the Employee Family Assistance Program. • The internal team responsible for implementing the Indigenous Employment Plan has working teams and mechanisms in place to help support the continued advancement of these commitments. • An existing leave program has been modified to allow increased flexibility for Indigenous employees to better enable leave for cultural purposes, consistent with requirements and allowances in each jurisdiction.	➤ 2025 – ongoing
Continue to seek and strive to increase Indigenous representation in Enbridge's permanent workforce.	• Continue to track and report metrics while adhering to privacy and employment legislation and regulations in both Canada and the U.S. • Continue to engage with vendors, post-secondary institutions, employment centers and urban Indigenous recruitment partners to promote Indigenous recruitment. • Attend at least 12 Indigenous-focused career fairs throughout Canada and the U.S., annually. • Continue to strive for a workforce more reflective of the communities in which we operate.	• We reached 2.8% proportional Indigenous representation by the end of 2024 across the enterprise. • Attended 12 Indigenous-focused career fairs. • Maintaining eight external relationships and partnerships with Indigenous education and employment agencies in the U.S. and Canada. We will continue to explore various agencies as we progress on this commitment. • Our dedicated Indigenous recruitment team continues to prioritize recruitment from Indigenous communities.	➤ 2025 – ongoing (Canada) 2027 (U.S.)
Continue to review internal hiring processes and develop human resource capability to ensure all perspectives are reflected through attraction/retention lifecycle.	• Review and, where appropriate, update internal hiring processes. • Conduct ongoing and regular training with Talent Acquisition team related to hiring practices. • Evolve current Indigenous attraction/retention approach as needed to ensure they continue to meet the needs of candidates and internal partners. • Continue to adjust job descriptions and job postings, by leveraging content review tools and engaging with internal Indigenous expertise.	• Implemented weekly training for Talent Acquisition. • Expanded Leadership Development Program. • Our Senior Advisor for Indigenous recruitment has established inclusive hiring processes and implemented special programs to attract more Indigenous applicants. • Training and improved communication on Indigenous hiring practices occur regularly with Talent Acquisition team.	➤ 2025 – ongoing

Commitment	Goal	Ongoing journey of progress in 2024	Timeline
Talent experience and development			
Promote participation among Indigenous employees within Enbridge's development program offerings to support the retention and advancement of Indigenous employees.	Partner with the Indigenous Employee Resource Group to host career development sessions, including topics such as accessing effective mentorship, coaching and sponsorship relationships.	- Processes are in place to ensure equitable representation of Indigenous employees across all leadership development programs. - Quarterly progress is reported to senior leaders.	 2025 – ongoing
Cultural support programs			
Continue to develop and maintain cultural support programs to make Enbridge an attractive and welcoming employer for all people, including Indigenous Peoples.	- Continue to implement and provide cultural support programs. - Integrate Indigenous arts and culture in Enbridge offices and facilities across Canada and the U.S. - Continue to support the Indigenous Employee Resource Group and ensure employees from all regions and field locations can join.	- Indigenous art present in seven Enbridge offices across Turtle Island. - Indigenous land acknowledgement plaques placed in 20 offices. - Achieved 100% employee participation in cultural awareness training. - Incorporated cultural awareness training during onboarding process for every new Enbridge employee. - Maintaining Indigenous cultural awareness training as a requirement for all employees and contractors that interact with Indigenous Peoples and communities, or work on projects that impact Indigenous communities. Training will also be available to others who wish to have a deeper understanding of these communities. - Developed and implemented a cultural awareness program for all contractors. - Continued support and work by the Indigenous Employee Resource Group and the Indigenous Employment Program to provide cultural support for employees, such as visits to culturally significant sites and lunch and learns. - Continued to integrate cultural support and awareness into our regular business practices, including: holding smudge and blanket ceremonies in our offices and adding cultural moments and Indigenous land acknowledgments before our meetings.	 2025 – ongoing
Provide specialized and unique cultural awareness opportunities to Enbridge's Board of Directors and Executive Leadership Team that expand upon the learning from previous cultural awareness training.	Host an annual Indigenous cultural session for Board of Directors and Executive Leadership Team.	Net new commitment which was identified through learning and engagement as we navigated the last two years of this journey.	 Ongoing
Learning and awareness			
Ensure 100% of Enbridge's employees complete Indigenous awareness training.	Ensure 100% of Enbridge's employees complete Indigenous awareness training as part of the 2022 commitment.	- Incorporated cultural awareness training during onboarding process for every new Enbridge employee. - Maintained Indigenous cultural awareness training.	 Achieved

Please note that bargaining unit employees are subject to the terms and conditions of their collective bargaining agreement.

Pillar 2: Community engagement and relationships

Commitment	Goal	Ongoing journey of progress in 2024	Timeline
Community engagement and relationships			
Develop an incremental formal mechanism for Indigenous groups to provide feedback to Enbridge.	Establish and launch feedback mechanism.	- Established the Indigenous feedback mechanism in 2023. - Maintained feedback mechanism on an ongoing basis (indigenous@enbridge.com, 1-855-459-0710).	✔ Achieved
Support communities along our rights-of-ways, including Indigenous communities, with community-strengthening initiatives.	- Continue to invest a total of C\$80 million (US\$57 million) in cumulative funding. - Provide annual updates on progress toward cumulative C\$80 million (US\$57 million) investment goal.	- C\$41 million (US\$29 million) of C\$80 million (US\$57 million) provided to date. - Dedicated team to identify priorities and engage with partners to establish spending priorities.	➡ 2022 – 2027
Formally establish our Indigenous Lifecycle or relationship-based engagement approach as Enbridge's standard of practice for engaging with Indigenous groups.	Embed the Lifecycle Engagement Guidelines Framework as a corporate guideline and within the Indigenous Peoples Policy as part of our commitment to reconciliation.	Net new commitment which was identified through learning and engagement as we navigated the last two years of this journey.	★ 2026

Pillar 3: Economic inclusion and partnerships

Commitment	Goal	Ongoing journey of progress in 2024	Timeline
Indigenous financial partnerships			
Continue to explore and execute Indigenous commercial equity partnerships.	- Maintain an internal Indigenous Financial Partnerships Working Group. - Continue to implement processes and strategies internally to review assets and projects to consider Indigenous commercial equity participation and encourage early engagement with Indigenous groups. - Maintain appropriate dedicated positions and multidisciplinary teams to assess and execute prospective commercial partnership opportunities - Commit to the development of two additional Indigenous commercial economic partnerships by the end of 2027.	- Four new partnerships established since 2022: - Plaza/Wabek Pipeline Sale (North Dakota) - Wabamun Carbon Hub (Alberta) - Athabasca Indigenous Investments Partnership (Alberta) - Seven Stars Energy (Saskatchewan) - Refer to our Indigenous engagement section (beginning on page 51) for more information. - Maintain an internal Indigenous Financial Partnerships Working Group. - Continue to implement processes and strategies internally to review assets and projects to consider Indigenous commercial equity participation and encourage early engagement with Indigenous groups. - Maintain appropriate dedicated positions and multidisciplinary teams to assess and execute prospective commercial partnership opportunities.	➡ 2025 – 2027

Commitment	Goal	Ongoing journey of progress in 2024	Timeline
Supplier capacity development			
Advance opportunities for Indigenous businesses to participate in Enbridge's supply chain.	Develop and conduct at least 10 information sessions over three years. Expand on existing mechanism for Indigenous businesses and communicate enhancement to make Indigenous businesses aware of the mechanism.	- Eight business information sessions and business summits completed. - Conducted four online webinars in 2023 across North America, in addition to ongoing regional in-person business forums. Four additional online webinars will be held throughout 2024. - Expanded current Indigenous Business contact mechanism: Indigenousbusiness@enbridge.com to include options for feedback from Indigenous business to Supply Chain Management Indigenous Engagement. - Maintain information sessions and support contact mechanism.	➔ 2025 – 2027
Indigenous procurement			
Advance Indigenous procurement spending. ¹	Execute and report on the progress towards the 2030 aspiration for an additional C\$1 billion (US\$714 million) of Indigenous procurement spend.	- In the 2022 IRAP, our aim was to spend an additional C\$1 billion (US\$714 million) by 2030: - We are currently at C\$757M (US\$514 million) towards \$1B target. - Indigenous spend total to date: C\$2.757 billion (US\$1.97 billion).	➔ 2030
Explore opportunities to remove contracting barriers and support Indigenous contractors.	Where possible, remove contracting barriers, implement appropriate mechanisms to accelerate payments to Indigenous contractors.	Net new commitment which was identified through learning and engagement as we navigated the last two years of this journey.	★ 2026

Pillar 4: Environmental stewardship and safety

Commitment	Goal	Ongoing journey of progress in 2024	Timeline
Indigenous inclusion and traditional knowledge			
Review and revise Enbridge's approach to Indigenous inclusion in environmental review processes.	- Provide information on Enbridge's environmental processes and initiatives to identified Indigenous groups. - Strengthen engagement to reflect Indigenous inclusion.	- Assessed current environmental approaches in each region. - Increased Indigenous inclusion in various stages of environmental review processes.	➔ 2025 – ongoing
Regionally advance opportunities for Indigenous inclusion in environmental field work.	- Increase Indigenous involvement in fieldwork. - Identify land-based opportunities considering inputs from Indigenous groups.	Increased opportunities for Indigenous participation in environmental fieldwork, especially through engagement on projects.	➔ 2025 – ongoing
Emergency preparedness and pipeline safety			
Continue to share emergency management materials and encourage increased Indigenous awareness in emergency response.	Continue to share relevant emergency management materials to generate awareness and work with identified Indigenous groups to implement best practices for Notifications to Indigenous Nations And Communities regarding Canada Energy Regulators Reportable Incidents.	- Provided emergency management materials and opportunities to participate in emergency response exercises to Nation emergency coordinators, administrators and leadership. - Continued to invite Indigenous communities to participate in appropriate emergency response exercises.	➔ 2025 – ongoing

¹ Enbridge takes direction from the leadership of Indigenous groups on which Indigenous members, companies and partners are available for economic inclusion purposes. We also consider economic opportunities for any incorporated business with a combined Indigenous ownership/controlling interest greater than 50% and include the burdened cost of wages for all self-identified Indigenous workers.

Commitment	Goal	Ongoing journey of progress in 2024	Timeline
Continue to communicate with Indigenous groups regarding emergency and safety mechanisms and approaches.	Communicate with Indigenous groups in the event of a release from our pipeline systems.	- Hosted tours of facilities. - Incident communication protocols were developed with some communities near our assets.	 Ongoing

Pillar 5: Sustainability, reporting and energy transition

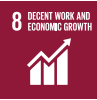
Commitment	Goal	Ongoing journey of progress in 2024	Timeline
Reporting			
Report and disclose progress on IRAP commitments in Sustainability Report.	- Disclose progress via annual Sustainability Report. - Develop IRAP Progress dashboard for the Enbridge website.	- Established disclosure in our 2022 Sustainability Report. - Updates disclosed annually and continue to maintain annual disclosure.	 Ongoing
Refresh IRAP commitments and goals every three years.	Publish updated IRAP commitments and goals every three years.	The 2022 IRAP commitments were assessed in 2024 resulting in the 2025 IRAP Refresh.	 2025 – ongoing
Sustainability			
Facilitate a thought leader roundtable related to Indigenous inclusion and perspectives in sustainability strategy and policies.	- Convene at least one thought leader roundtable in the U.S. - Consider the findings and Indigenous perspectives shared at the roundtable(s) when Enbridge sustainability strategies and policies are updated.	- Held thought leader roundtable in Q4 2023. - Maintain thought leader roundtable in 2025.	 2025

Pillar 6: Governance and leadership

Commitment	Goal	Ongoing journey of progress in 2024	Timeline
Governance			
Establish an Indigenous Advisory Group (IAG).	Establish IAG and Terms of Reference.	- Established IAG Terms of Reference in 2023. - Maintain regular meetings.	 Achieved
Leadership and oversight			
Ensure executive sponsorship and commitment to achieving IRAP goals.	Ensure IRAP performance is included in executive objectives.	- Established Reconciliation Senior Vice President Steering Committee. - Maintained quarterly updates for the Executive Leadership Team sponsors.	 Achieved
Ensure IRAP implementation and support mechanisms are established and aligned across the Company.	Establish mechanisms for implementation and accountability of the IRAP.	- Established IRAP Core Working Group. - Maintain IRAP implementation committees.	 Achieved
Cultural Awareness			
Conduct Sharing or Talking Circles with Indigenous colleagues and Executive Leadership Team to provide opportunities for continued learning, education and support.	Conduct quarterly Sharing or Talking Circles which will include Executive Leadership Team participation at least once annually.	- Quarterly meetings held and will be maintained. - IAG and terms of reference established in 2023; regular meetings during the year.	 Ongoing

United Nations Sustainable Development Goals

The UN Sustainable Development Goals (SDGs) are 17 goals that provide a framework for a more sustainable world by 2030. We have identified the SDGs that are most relevant to our business and have focused on targets where we can make meaningful contributions to the shared advancement of the SDGs.

SDGs and targets		Why it matters
	SDG target 5.5: Ensure women's full and effective participation and equal opportunities for leadership at all levels of decision-making in political, economic and public life.	Our success is built on a respectful and inclusive workplace. Our Inclusion Strategy outlines the goals and actions we take to support inclusion in the workplace. We aim to create a workplace where every individual feels valued, respected and empowered to contribute to their fullest potential. By fostering a culture of inclusion, collaboration and innovation, we enable exceptional business outcomes.
	SDG target 7.1: By 2030, ensure universal access to affordable, reliable and modern energy services. SDG target 7.2: By 2030, increase substantially the share of renewable energy in the global energy mix.	Aligned with our purpose to fuel people's quality of life, we are focused on bringing people the energy they need in a way that is affordable and reliable. Investments in a diverse energy mix, including lower-carbon energy, allows us to continue to deliver energy through multiple systems to meet customers' needs.
	SDG target 8.5: By 2030, achieve full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value. SDG target 8.8: Protect labor rights and promote safe and secure working environments for all workers, including migrant workers, in particular women migrants, and those in precarious employment.	We play an important role in contributing to economic prosperity in the communities where we operate and are focused on expanding access to the economic activities connected with our work. In doing this, we are always focused on protecting the health and safety of our employees and continually strive to build an inclusive environment.
	SDG target 9.1: Develop quality, reliable, sustainable and resilient infrastructure, including regional and transborder infrastructure, to support economic development and human well-being, with a focus on affordable and equitable access for all. SDG target 9.4: By 2030, upgrade infrastructure and retrofit industries to make them sustainable, with increased resource-use efficiency and greater adoption of clean and environmentally sound technologies and industrial processes, with all countries taking action in accordance with their respective capabilities.	We are focused on providing reliable energy infrastructure to support economies and communities across Canada and the U.S. Through our engagement with governments, businesses and consumers, we help our customers adopt strategies that use less energy and minimize environmental impacts. We are modernizing our infrastructure and investing in new technologies.
	SDG target 13.1: Strengthen resilience and adaptive capacity to climate-related hazards and natural disasters in all countries. SDG target 13.2: Integrate climate change measures into national policies, strategies and planning.	Investing in renewable and lower-carbon energy is one of the ways we are reducing GHG emissions to reach our net-zero target. We continue to invest in mitigation to protect our assets and maintain our ability to deliver reliable service to customers.

Trade association memberships

In 2024, we contributed more than C\$50,000 and US\$50,000 in membership dues to each of the following organizations in Canada and the U.S., respectively. Please note that we have only listed our executive-level involvement in these organizations. We also participate in various committees associated with these trade associations.

Organization	About	Engagement
Canada		
Canadian Chamber of Commerce	Connects businesses from all sectors and regions of the country to advocate for public policies that will foster a strong, competitive economic environment that benefits businesses, communities and families across Canada.	Enbridge's SVP, LP Commercial serves on the Board. Company representatives have committee participation.
Canadian Gas Association (CGA)	Represents Canada's natural gas distribution industry and its members including distribution companies, transmission companies, equipment manufacturers and other service providers.	Enbridge's EVP and President, Enbridge Gas is Vice-chair of the Board. President, Enbridge Gaz Quebec, is on the Board. Company representatives participate on various technical and policy committees.
Canadian Renewable Energy Association (CanREA)	Represents Canada's wind and solar energy and energy storage industries, advocating for clean electricity in Canada.	Enbridge's Director, Power Strategy and Commercial is a non-voting member of the Board. Company representatives participate on CanREA's policy and technical committees.
Ontario Energy Association (OEA)	Represents Ontario's energy sector, serving as a bridge between business, government and other groups to foster common understanding of each other's positions and interests.	Enbridge's EVP and President, Enbridge Gas was appointed Chair of the Board.
U.S.		
The American Clean Power Association (ACP)	The leading voice of today's multi-tech clean energy industry, representing storage, wind, utility-scale solar, clean hydrogen and transmission companies. ACP's goal is to make clean energy the dominant electricity source in the U.S.	Company representatives participate in a variety of policy and technical committees.
American Gas Association (AGA)	Trade group for natural gas utilities in the U.S. AGA advocates for the safe, reliable and affordable delivery of natural gas for natural gas utility companies and their customers. AGA is committed to reducing GHG emissions through smart innovation, new and modernized infrastructure and advanced technologies that maintain reliable, resilient and affordable energy service choices for customers.	In 2024, Enbridge was an advisory Board member. In 2025, Enbridge's EVP and President, Enbridge Gas joined the full Board and executive committee. The President, Enbridge Gaz Quebec, is also on the Board. Company representatives participate in a variety of technical, environmental and policy committees.
Hydrogen Council	The Hydrogen Council is a global CEO-led initiative that brings together leading companies with a united vision and ambition for hydrogen to accelerate the clean energy transition.	Enbridge is a Steering Member. Our EVP and President, Gas Transmission and Midstream is the CEO member and our SVP and Chief Transition Officer, is the executive member.
American Petroleum Institute (API)	API represents members from across all segments of the natural gas and oil industry in the U.S. API's mission is to promote safety across the industry globally and to influence public policy in support of a strong, viable U.S. natural gas and oil industry. It is the major standard-setting organization for the industry in areas such as safety, fuels and emissions.	Enbridge's President and CEO is a member of API's board of directors and finance committee and our EVP and President, Liquids Pipelines, chairs API's Midstream Committee. Company representatives participate in several policy, environmental and technical committees. In 2025, our President and CEO joined the executive committee.
Interstate Natural Gas Association of America (INGAA)	INGAA advocates for federal policies, laws and regulations that support the development and operation of safe and reliable interstate natural gas transportation and storage infrastructure now and as part of an evolving energy industry.	Enbridge's EVP and President, Enbridge Gas, is on the Board and served as second vice chair. Company representatives participate in policy, technical and environmental committees.
Liquid Energy Pipeline Association (LEPA)	Represents the interests of owners and operators of liquid pipelines in the U.S.	Enbridge's SVP Business Development, Liquids Pipelines, serves on the Executive Committee.
Michigan Chamber of Commerce	As the leading statewide business advocacy organization, the Chamber stands up for job providers in the legislative, political and legal arenas.	Enbridge's Director U.S. External Affairs, serves on the Board.
Northwest Gas Association (NWGA)	Regional advocacy for gas infrastructure to safely deliver clean, dependable and affordable energy.	Enbridge's VP Utility, Public Affairs & Communications, and the Director, BC Pipelines, serve on the Board.

Trade association assessments

We continue to work to assess whether our trade association memberships support our climate-related policy positions. We aim to publish a detailed review of policy and advocacy positions of our key trade associations every two years.

We conducted a review of how our supported trade associations' climate-related policy positions align with our own. We assessed our participation in trade associations based on the following criteria: (1) annual dues paid of \$50,000 (USD or CAD) or greater; and (2) those active in federal climate-related policy discussions. To be consistent and objective, we surveyed these trade associations to allow each to clarify their positions on climate-related issues. In some cases, further interpretation or additional review of publicly available information was needed. This review includes websites, policy submissions and media sources. Based on the responses received, we deemed an association to be “aligned,” “partially aligned” or “misaligned” with our high-level policy positions.

We recognize this approach has its limitations and our review involves interpretation, opinion and judgment. The views and conclusions expressed in this review are those of Enbridge.

Assessment

In determining alignment, we gave significant weight to whether an association expressed support for the achievement of net-zero emissions by 2050. In the case where an association has no position, we did not automatically consider this to be a misalignment.

In general, an association is assessed as aligned if, overall, we found it to have aligned positions on the reduction of GHG emissions and other energy transition policies. An association is assessed as misaligned if it does not articulate support for net-zero emissions and demonstrates no support to limited support on other Enbridge policy positions. An association is assessed as partially aligned if we found that it does not meet the criteria for either aligned or misaligned.

Addressing climate-related misalignment

If we determine misalignment between Enbridge's climate-related policy positions or advocacy priorities, we will review the extent of the misalignment. We understand the climate policy positions of our trade associations will continue to evolve, and we consider the following options upon assessing that a trade association is misaligned: (1) continue membership in the association and communicate and engage in areas where we have different views; (2) assess the broader value the membership provides and state our dissent on a particular issue; or (3) resign our membership.

Of the nine associations reviewed in this report, we found no material misalignment.



This assessment builds on our first Trade Association Climate Review in 2021 and our May 2023 progress update. It describes the key industry associations of which we are members and whether their views on climate-related issues are consistent with our own. This report reflects our updated position, and the factors attributed to alignment. This year we assessed nine key associations against our climate-related policy positions. We found no material misalignment.

The American Clean Power Association (ACP)

ACP is the leading voice of today's multi-tech clean energy industry, representing energy storage, wind, utility-scale solar, clean hydrogen and transmission companies.

ACP works to champion policies that will transform the U.S. power grid to a low-cost, reliable and renewable power system.

Engagement

Company representatives participate in a variety of ACP's policy and technical committees.

Summary

As Enbridge continues to grow its wind and solar portfolios, we benefit from ACP's platform advocating for renewable energy policy development.

ACP has shown policy support for the Paris Agreement¹ and no stated position on net zero. They also advocate for the use of hydrogen storage as a clean energy solution.²

We support ACP's policy priority for permitting reform to accelerate the deployment of clean energy projects, as well as appropriate funding and incentives.

We are aligned with ACP and will continue to engage and leverage our membership to help shape and advance ACP's policy agenda relevant to our business.

 **Learn more:**
[U.S. Renewable Energy Policy Priorities](#)
[ACP Statement on New Federal Guidance for Consideration of Climate Impacts in Environmental Reviews](#)

American Gas Association (AGA)

AGA advocates for the safe, reliable and affordable delivery of natural gas for natural gas utility companies and their customers.

AGA is committed to reducing GHG emissions through smart innovation, new and modernized infrastructure, and advance technologies that maintain reliable, resilient and affordable energy service choices for customers.

Engagement

Enbridge's EVP and President, Enbridge Gas is Vice-chair of the Board and the President, Enbridge Gaz Quebec is also on the Board. Company representatives participate on various technical and policy committees.

Summary

AGA indirectly supports the Paris Agreement in its Net Zero Study.³

AGA supports clear and reasonable federal regulation of methane. AGA also supports the use of voluntary actions to reduce methane emissions in the natural gas sector. As the largest natural gas utility franchise in North America, Enbridge derives significant benefit from the exchange of information and views on safety, legislation, sustainability and other technical and policy issues.

We have found AGA to be aligned with our climate and energy related policy positions.

 **Learn more:**
[AGA Climate Change Position Statement](#)
[Net Zero Emissions Opportunities for Gas Utilities](#)
[Natural Gas Industry Climate Change Commitments](#)

American Petroleum Institute (API)

API represents members from across all segments of the natural gas and oil industry in the U.S. API's mission is to promote safety across the industry globally and to influence public policy in support of a strong, viable U.S. natural gas and oil industry. It is the major standard-setting organization for the industry in areas such as safety, fuels and emissions.

Engagement

Enbridge is a member of API's Board of Directors and Finance committee and chairs API's Midstream Committee. Company representatives participate in several policy, environmental and technical committees and working groups. In 2025, our President and CEO joined the executive committee.

Summary

Enbridge benefits from its membership of API, including strong representation of the industry with regulatory agencies and in legal proceedings. We also benefit from API's advocacy on state and federal issues, including trade, transport, taxes and environment.

API has stated that it supports the ambitions of the Paris Agreement and has no stated position on net zero.⁴

We encouraged API to take a more constructive approach towards the implementation of the methane fee, which is contained in the IRA, passed in 2022.⁵ API offered productive feedback to the EPA in response to its first Request for Information regarding implementation of the Methane Emissions Response Program and the associated methane fee.

We have worked with API to support a streamlined regulatory framework for CCS, including the support of state primacy for EPA Class VI wells used for geologic sequestration of carbon dioxide.

We supported API's advocacy with the European Commission Directorate-General for Energy to work with the U.S. federal government to establish an equivalency agreement between U.S.-based methane regulations and the European Union Methane Regulation to enhance the carbon competitiveness of U.S. exports of LNG to Europe.

We have found API to be aligned with our climate and energy-related policy positions.

 **Learn more:**
[API Climate Position](#)
[API's 5 Point Policy Roadmap](#)
[The Environmental Partnership](#)

¹ <https://cleanpower.org/about>

² <https://cleanpower.org/facts/clean-energy-storage/hydrogen-energy-storage/>

³ https://www.aga.org/wp-content/uploads/2022/02/aga-net-zero-emissions-opportunities-gas-utilities_executive-summary.pdf

⁴ <https://www.api.org/news-policy-and-issues/blog/2021/01/19/why-us-natural-gas-is-key-to-addressing-ambitions-of-the-paris-agreement>

⁵ <https://www.api.org/news-policy-and-issues/news/2024/11/12/api-statement-on-final-methane-fee-rule>

Canadian Chamber of Commerce

The Chamber connects businesses from all sectors and regions of the country to advocate for public policies that foster a strong, competitive economic environment that benefit businesses, communities and families across Canada.

Engagement

Enbridge's SVP, LP Commercial is on the Board. Company representatives participate in the Chamber's policy and technical committees.

Summary

Enbridge benefits from its membership in the Chamber, especially on broader policy issues that impact Enbridge as a major contributor to the Canadian economy.

The Chamber's ongoing work with the Net Zero Council indicates a strong commitment for net zero and Canada's obligations under the Paris Agreement.¹

The Chamber also advocates for a broad spectrum of clean technologies including CCS and hydrogen to achieve the Paris goals.^{2,3}

We have found the Chamber to be aligned with our climate and energy related policy positions.



Learn more:

[Net-Zero Council](#)

[Decarbonization and Clean Technology Council](#)

Canadian Gas Association (CGA)

CGA represents Canada's natural gas distribution industry and its members include distribution companies, transmission companies, equipment manufacturers and other service providers.

Engagement

Enbridge's EVP and President, Enbridge Gas is Vice-chair of the Board and the President, Enbridge Gaz Quebec is on the Board. Company representatives participate on various technical and policy committees.

Summary

Enbridge benefits from CGA's advocacy on policy issues such as building codes, the *Clean Electricity Regulation* and partnership with Electricity Canada on tax issues.

CGA has stated support for the use of existing gas energy infrastructure to accelerate and support lower-emission innovations, such as renewable natural gas and hydrogen blending.

We have found CGA to be aligned with our climate and energy related policy positions.



Learn more:

[Bettering Canadian Lives: Harnessing the Canadian Gas Energy Opportunity](#)

Canadian Renewable Energy Association (CanREA)

CanREA advocates on behalf of the wind energy, solar energy and energy storage industries to benefit Canada's economy and energy future.

Engagement

Enbridge's Director, Power Strategy and Commercial is a non-voting member of the Board. Company representatives participate on CanREA's policy and technical committees.

Summary

Enbridge and CanREA continue to have a common interest in the efficient deployment and expansion of renewables.

Last year we assessed CanREA as partially aligned; however, their advocacy is in alignment with our wind, solar and energy storage solution technologies strategy.

We will continue our membership to advocate for a broad range of technology that supports the reduction of emissions.



Learn more:

[Powering Canada's Journey to Net-Zero: CanREA's 2050 Vision](#)

Hydrogen Council

The Hydrogen Council is a global CEO-led initiative that brings together leading companies with a united vision and ambition for hydrogen to accelerate the clean energy transition.

Engagement

Enbridge is a Steering Member. Our EVP and President, Gas Transmission and Midstream, is the CEO member, and our SVP and Chief Transition Officer is the executive member.

Summary

The Hydrogen Council was created to "help limit global warming to 2°C, in accordance with the target set by the Paris Climate Agreement in 2015 and to share their vision and goals regarding the use of hydrogen as an accelerator of the energy transition."

The Hydrogen Council states that access to renewable energy and CCS technology is one piece of the puzzle for ensuring a successful transition to a hydrogen economy.⁴

Enbridge gains value from our involvement with the Hydrogen Council, especially through its efforts and advocacy that advance hydrogen development and policy. The council also publishes hydrogen-related studies and provides a platform for government and companies to connect on hydrogen issues.

We have found the Hydrogen Council to be aligned with our climate and energy related policy positions.



Learn more:

[Hydrogen Insights 2024](#)

[Hydrogen – Closing the Cost Gap](#)

¹ https://chamber.ca/wp-content/uploads/2022/10/Net-zero-Report_102022-1.pdf

² <https://chamber.ca/publications/submission-on-the-clean-hydrogen-tax-credit>

³ <https://chamber.ca/news/canadian-chamber-statement-on-cleantech-and-ccus-investment-tax-credits-implementation-bill-c-59>

⁴ <https://hydrogencouncil.com/wp-content/uploads/2022/12/WB-Hydrogen-Report-2022.pdf>

Interstate Natural Gas Association of America (INGAA)

INGAA advocates for federal policies, laws and regulations that support the development and operation of safe and reliable interstate natural gas transportation and storage infrastructure now and as part of an evolving energy industry.

Engagement

Enbridge's EVP and President, Gas Transmission and Midstream, is on the Board of Directors and served as second vice chair. Company representatives participate in policy, technical and environmental committees.

Summary

INGAA's Climate Statement sets a goal to work together as an industry to work toward achieving net-zero GHG emissions by 2050 from our natural gas transmission and storage assets.

The commitments recognize, like the Paris Agreement, that there's a need for collaboration and cooperation, technological innovation and sound national policies to evolve to achieve this important goal.

We are aligned with INGAA's policy priority for a clear, predictable and durable energy infrastructure permitting process.

We have found INGAA to be aligned with our climate and energy-related policy positions.



Learn more:

[INGAA Climate Statement](#)

[Natural Gas: Critical to ensuring reliability of the electric grid](#)

[Permitting Reform](#)

Liquid Energy Pipeline Association (LEPA)

LEPA promotes responsible policies, safety excellence and public support for liquids pipelines, and represents pipelines transporting 97% of all hazardous liquids barrel miles reported to the FERC. Its diverse membership includes large and small pipelines carrying crude oil, refined petroleum products, NGLs and other liquids.

Engagement

Enbridge leadership is represented on the API-LEPA Pipeline Safety Excellence Steering Committee and Leadership Committee. Company representatives participate in policy and technical committees.

Summary

Enbridge derives benefit from our engagement with LEPA from the exchange of information and views on safety and other technical and policy issues.

We have found LEPA to be aligned with our climate and energy related policy positions.



Learn more:

[Liquid Energy Pipeline Association](#)

Fines, penalties and violations

Our intention is to work according to all external regulations and laws to prevent fines, penalties and violations that are monetary or non-monetary in nature. We are reporting all fines, penalties and violations (monetary and non-monetary) in excess of C\$10,000 and US\$10,000 (depending on the country in which they occurred). In 2024, we remitted the following fines, penalties and violations:

Country	Regulatory authority	Enforcement action summary
U.S.	Leech Lake Band of Ojibwe (LLBO) Division of Resource Management	In July 2024, Enbridge received a letter from the LLBO for violation of conditions that were in connection with water quality certifications during a Line 4 pipeline integrity dig project on the Leech Lake Reservation in Minnesota during the winter of 2024. Enbridge paid \$46,625 to the LLBO for staff time associated with remedial actions pertaining to the Line 4 integrity dig project and implemented corrective actions to avoid reoccurrence.
U.S.	U.S. Texas Commission on Environmental Quality (TCEQ)	In July 2024, Enbridge received an Agreed Order from the TCEQ for emission violations involving three fuel gas heaters at the Agua Dulce Compressor station from October 2021 to October 2022. Enbridge agreed to enforcement resolutions of approximately US\$55,440, including administrative penalties (US\$27,720) and charitable donations (US\$27,720).
U.S.	U.S. Environmental Protection Agency (EPA)	In April 2024, Enbridge received a Notice of Violation for failing to file biennial reports and not properly notifying changes in hazardous waste activity for a generator at one of our facilities in Clearbrook, Minnesota. Enbridge corrected the violations and paid a penalty of US\$13,715.
U.S.	U.S. Environmental Protection Agency (EPA)	In November 2024, Enbridge received fines related to alleged violations of the Consent Decree. Enbridge paid a total penalty of US\$14,000 to resolve the issues.
U.S.	U.S. The Public Utilities Commission of Ohio (PUCO)	In November 2024, the PUCO authorized a settlement agreement resolving violations of state and federal natural gas pipeline safety regulations. Enbridge Gas Ohio paid a civil forfeiture of \$350,000 to the State of Ohio, for non-compliances identified during a PUCO staff audit in June 2023 (pre-Enbridge acquisition). Non-compliances were in relation to maintaining proper construction records, following necessary procedures and ensuring proper operator qualifications for its outside contractors. Enbridge is in the process of implementing corrective and preventative actions related to these findings.

Pipeline safety events

There were two fatality incidents involving Enbridge's U.S. gas utilities (currently under investigation) in addition to four Tier 1 pipeline safety events that occurred at Enbridge in 2024 (per CSA Z260 standard).

Location	Description
Ohio, U.S.	GDS: On May 28, 2024, a natural gas-fueled explosion occurred in a 13-story commercial-residential-office building in Youngstown, Ohio, causing one fatality and nine other individuals to be hospitalized due to injuries. A four-person scrap-removal crew under contract with the City of Youngstown to remove and relocate utilities was working the basement of the building and cut into an inactive service line owned by Enbridge. On cutting into the pipe, gas was observed escaping; the crew exited the basement, pulled the fire alarm and contacted 911. The Youngstown Fire department received reports of a gas odor at the location minutes before the explosion.
Utah, U.S.	GDS: On November 6, 2024, a natural gas-fueled explosion fatally injured one person and destroyed a home in South Jordan, Utah. After the accident, Enbridge found a leak about 150 feet northeast of the home on a 4-inch diameter natural gas main it owned and operated.
Ohio, U.S.	GTM: In January 2024, a noise concern alerted area staff to an unintentional venting of gas from a pressure relief valve at a compressor station. Cold weather and ice resulted in a pressure relief valve at a compressor station opening below its setpoint.
Alberta, Canada	LP: A leak from a tank mixer in January 2024 resulted in the release of approximately 170 bbl of crude oil from an above-ground storage tank into secondary containment. All product was contained within the tank's secondary containment berm.
Indiana, U.S.	LP: Operations responded to an odor call in October 2024 and discovered approximately 350 bbl of oil leaking from the terminal facility piping manifold. The leak was fully contained within the manifold area on site.
Wisconsin, U.S.	LP: Oil-stained gravel was identified during a routine station walkthrough in November 2024. Approximately 1,650 bbl of oil are estimated to have been released from a below-ground flange within the station perimeter.

Reporting standards and content indices

The 2024 Sustainability Report and Datasheet were developed with reference to the Global Reporting Initiative (GRI) Universal Standards and GRI 11: Oil and Gas Sector Standard; following the Sustainability Accounting Standards Board (SASB) standards for Oil & Gas – Midstream and Gas Utilities & Distributors; and based on the recommendations of the Task Force on Climate-related Financial Disclosures (TCFD).

Index	Description
GRI Index , pages 1 – 14	Enbridge has prepared this index with reference to the GRI Standards and applicable GRI Sector Standard: GRI 11: Oil and Gas Sector 2021.
SASB Index , pages 15 – 16	Enbridge has prepared this index with reference to the Oil & Gas – Midstream (version 2023-12) and Gas Utilities & Distributors (version 2023-12) SASB standards.
TCFD Index , page 17	Enbridge has prepared this index against the four pillars of the TCFD.
UN SDGs	We continue to assess our contributions to the UN Sustainable Development Goals .
United Nations Global Compact	Enbridge has been a signatory to the United Nations Global Compact since 2003.

Forward-looking information

Forward-looking information, or forward-looking statements, have been included in this Sustainability Report to provide information about us and our subsidiaries and affiliates, including management's assessment of our and our subsidiaries' future plans and operations. This information may not be appropriate for other purposes. Forward-looking statements are typically identified by words such as "anticipate," "believe," "estimate," "expect," "forecast," "intend," "likely," "plan," "project," "target" and similar words suggesting future outcomes or statements regarding an outlook. Forward-looking information or statements included in this document include, but are not limited to, statements with respect to the following: our corporate vision and strategy, including our strategic priorities and enablers; expected supply of, demand for, exports of and prices of crude oil, natural gas, natural gas liquids (NGL), liquefied natural gas (LNG), renewable natural gas (RNG), and renewable energy; energy transition, energy evolution and lower-carbon energy, and our approach thereto; the future role of natural gas, renewables, lower-carbon energy infrastructure and new energy technologies, including RNG, carbon capture and storage and hydrogen; our sustainability and environmental, social and governance (ESG) goals, practices, performance and reporting, including with respect to emissions reduction and workforce inclusion; our net-zero strategy; expected resiliency of our assets; expected climate-related risks and opportunities and our plans to manage and mitigate them; the expected impact of climate change scenarios; our commitments under the Indigenous Reconciliation Action Plan; anticipated and economic partnership opportunities with Indigenous groups; plans for workforce training and engagement; industry and market conditions; anticipated utilization of our assets; expected costs, benefits and in-service dates related to announced projects and projects under construction; expected capital expenditures; investable capacity and capital allocation framework and priorities; expected future growth, development and expansion opportunities; expected optimization and efficiency opportunities; and potential future actions of regulators and courts.

Although we believe these forward-looking statements are reasonable based on the information available on the date such statements are made and processes used to prepare the information, such statements are not guarantees of future performance and readers are cautioned against placing undue reliance on forward-looking statements. By their nature,

these statements involve a variety of assumptions, known and unknown risks and uncertainties and other factors, which may cause actual results, levels of activity and achievements to differ materially from those expressed or implied by such statements. Material assumptions include assumptions about the following: energy transition and energy evolution, including the drivers and pace thereof; global economic growth and trade; the expected supply of, demand for, export of and prices of crude oil, natural gas, NGL, LNG, RNG and renewable energy; anticipated utilization of our assets; exchange rates; inflation; interest rates; tariffs and trade policies; availability and price of labor and construction materials; the stability of our supply chain; operational reliability and performance; maintenance of support and regulatory approvals for our projects and transactions; anticipated in-service dates; weather; the timing, terms and closing of acquisitions and dispositions and other transactions and projects and the timing and benefits thereof governmental legislation; litigation; credit ratings; hedging program; expected financial performance, strength and flexibility; debt and equity market conditions; and general economic and competitive conditions. Assumptions regarding the expected supply of and demand for crude oil, natural gas, NGL, LNG, RNG and renewable energy, and the prices of these commodities, are material to and underlie all forward-looking statements, as they may impact current and future levels of demand for our services. Similarly, exchange rates, inflation, interest rates and tariffs impact the economies and business environments in which we operate and may impact levels of demand for our services and cost of inputs and are therefore inherent in all forward-looking statements. The most relevant assumptions associated with forward-looking statements regarding announced projects and projects under construction, including estimated completion dates and expected capital expenditures, include the following: the availability and price of labor and construction materials; the stability of our supply chain; the effects of inflation and foreign exchange rates on labor and material costs; the effects of interest rates on borrowing costs; the impact of weather; and customer, government, court and regulatory approvals on construction and in-service schedules and cost recovery regimes.

Our forward-looking statements are subject to risks and uncertainties pertaining to the successful execution of our strategic priorities; operating performance; legislative and regulatory parameters and decisions; litigation; acquisitions, dispositions and other transactions and the realization of anticipated benefits therefrom; evolving government trade policies, including potential and announced tariffs, duties, fees, economic sanctions or other trade measures; operational dependence on third parties; project approval and support; renewals of rights-of-way; weather; economic and competitive conditions; global geopolitical conditions; legislative developments and political decisions; public opinion; dividend policy; changes in tax laws and tax rates; exchange rates; inflation; interest rates; commodity prices; access to and cost of capital; and the supply of, demand for and prices of commodities and other alternative energy, including but not limited to, those risks and uncertainties discussed in this Sustainability Report and in our other filings with Canadian and U.S. securities regulators. The impact of any one assumption, risk, uncertainty or factor on a particular forward-looking statement is not determinable with certainty as these are interdependent and our future course of action depends on management's assessment of all information available at the relevant time. Except to the extent required by applicable law, Enbridge assumes no obligation to publicly update or revise any forward-looking statement made in this Sustainability Report or otherwise, whether as a result of new information, future events or otherwise. All forward-looking statements, whether written or oral, attributable to us or persons acting on our behalf, are expressly qualified in their entirety by these cautionary statements.

Sustainability-related disclosures

This Sustainability Report includes information and data related to Enbridge's sustainability goals and related activities, including statements about the environmental benefits of our business activities and effects of our business on climate change, which are informed by well-recognized methodologies, standards, frameworks and recommendations, including those outlined in this Sustainability Report. The methodologies, standards, frameworks, recommendations, estimates, scenarios, measurements, data and assumptions underlying our approach to sustainability and other information included in this report continue to develop and evolve and may differ from those used by other companies and those that may be used by us in the future. Accordingly, we may change our approach to sustainability-related disclosures, including how we report sustainability data, in future reports and assume no obligation to publicly update the information in this Sustainability Report, except to the extent required by applicable law. Information in this report may incorporate or otherwise rely upon data from third parties, which may have been prepared using methodologies that are different from ours and which we have not independently verified.

Enbridge's sustainability goals and related activities, commitments and plans, and associated information and data, involve forward-looking information and are based on a variety of assumptions, estimates, judgments, risks and uncertainties. Given this uncertainty and complexity, assumptions, estimates and judgments believed to be reasonable at the time of preparation of this Sustainability Report may subsequently turn out to be inaccurate. Our strategic priorities and sustainability goals, targets, metrics and commitments, including the pathways for reducing our operational emissions over time, are aspirational, and depend on the collective efforts and actions across a wide range of stakeholders, and the development of technologies, all of which are largely outside of our control, and there can be no assurance that they will be achieved. Our sustainability goals, targets, metrics and commitments continue to evolve and may need to be restated, modified or recalibrated as available data improves, as standards, methodologies, metrics and measurements mature, and as legislation, regulations, policies and stakeholder sentiment evolve.

Photo directory



Cover
Grazing sheep peer out from under a solar panel at Enbridge's solar farm in Sarnia, ON. In 2024, sheep were used to manage vegetation at the facility, eliminating the need for pesticides and promoting native plants.



Page 8
Enbridge's Edmonton, AB, Terminal is one of two delivery points for our Athabasca Regional Oil Sands system, and the starting point of our cross-continent Mainline crude oil pipeline system.



Page 15
Orange Grove Solar is a 130-MW renewable energy facility in operation near Corpus Christi, TX.



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Heidlersburg Solar is a 2.5 MW solar project which offsets some of the power consumed by GTM's Heidlersburg Compressor Station, along our Texas Eastern gas transmission pipeline.



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The StormFisher RNG facility located near London, ON, uses upgrading equipment to turn food waste into pipeline-quality gas, which is then injected into the Enbridge Gas network in Ontario.



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Enbridge employees in Fort McMurray, AB.



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Compressor station located near Savona, BC, along our natural gas transmission pipeline.



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A member of the White Earth Tribe performs a smudge ceremony for guidance while meeting with Enbridge employees working on Line 5.



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Construction activities in western Canada on our LP Mainline.



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Enbridge employees in our Edmonton, AB, office.



Page 50
Enbridge employees in our Edmonton, AB, office.



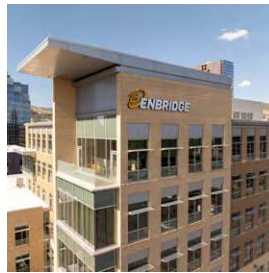
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Rehabilitated eagle released back into the wild at an Alexis Nakota Sioux Nation Pow Wow. Photo courtesy of Steven Tchir (@tchirstowildlife).



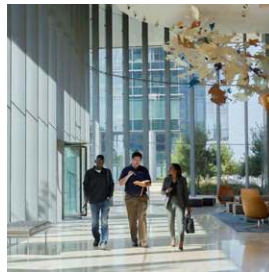
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A working model of the Tunnel Boring Machine on display at the St. Ignace, MI, Great Lakes Tunnel Information Center.



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An Enbridge open house in Ashland, WI, provided attendees with an opportunity to learn about Enbridge activities in their community.



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Enbridge Gas Utah office building in Salt Lake City, UT, part of Enbridge's expanded U.S. gas utility business.



Page 65
Enbridge employees in our Houston, TX, office.



Page 66
Enbridge employees participate in regular surveys as part of our focus on ethics and compliance.



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Employees keep a watchful eye on Enbridge operations at an Enbridge pipeline control center.



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Tomorrow RNG, Enbridge's U.S. landfill gas-to-RNG platform, captures and upgrades methane from six operating facilities across Texas and Arkansas for use in existing natural gas networks.



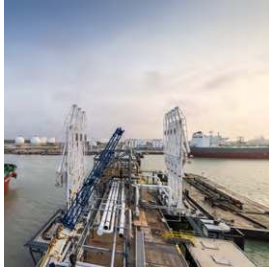
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Enbridge Lake Charles, LA, compressor station is part of our Texas Eastern Transmission pipeline network.



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Storage tanks at Enbridge Ingleside Energy Center on the U.S. Gulf Coast. The facility is the largest crude oil storage and export terminal by volume in the U.S.



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Board members meet with Gregory L. Ebel, President and Chief Executive Officer.



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Enbridge Ingleside Energy Center on the U.S. Gulf Coast is the largest crude oil storage and export terminal by volume in the U.S.



Page 83
Enbridge Ingleside Energy Center on the U.S. Gulf includes LNG storage.



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Enbridge Gray Oak pipeline system extends from west Texas to destination points including Corpus Christi, Ingleside and Freeport.



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Enbridge Gas office in Cleveland, OH.



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Located near Sarnia, ON, the Enbridge Gas Ontario Dawn Hub is one of the largest integrated natural gas storage and trading hubs in North America.



Page 105
Aerial photograph of Enbridge's Superior Terminal, located in Superior, WI. The terminal is a vital hub for crude oil and liquids transportation.

Glossary

AI	Artificial Intelligence	ENB PAC	Enbridge Political Action Committee	LNG	Liquefied natural gas	TCFD	Task Force on Climate-related Financial Disclosure
ACP	The American Clean Power Association	EPA	Environmental Protection Agency	LP	Liquids Pipelines	TCEQ	Texas Commission on Environmental Quality
AGA	American Gas Association	EPS	Emissions Performance Standards	MACH2	Mid Atlantic Clean Hydrogen Hub	TEP	The Environmental Partnership
API	American Petroleum Institute	ERG	Employee resource group	NIST	National Institute of Standards and Technology	TIER	Technology Innovation and Emission Reduction Regulation
APS	Announced Pledges Scenario	EV	Electric vehicle	NTSB	National Transportation Safety Board	TIS	Technology and Information Services
ARCH2	Appalachian Region Clean Hydrogen Hub	FDFD	Federal Dam Fire Department	NWGA	Northwest Gas Association	TNFD	Taskforce on Nature-related Financial Disclosure
AR4	Fourth Assessment Report	FLHA	Field-Level Hazard Assessment	NYSE	New York Stock Exchange	TRIF	Total Recordable Incident Frequency
AR5	Fifth Assessment Report	GDS	Gas Distribution and Storage	NZE	Net Zero Scenario Emissions by 2050	TSA	Transportation Security Administration
Board	Board of Directors of Enbridge Inc.	GHG	Greenhouse gas	OBPS	Output-Based Pricing System	TSX	Toronto Stock Exchange
CAC	Criteria air contaminant	GRI	Global Reporting Initiative	OEA	Ontario Energy Association	TWh	Terawatt-hours
CanREA	Canadian Renewable Energy Association	GTM	Gas Transmission and Midstream	OGMP 2.0	Oil & Gas Methane Partnership 2.0	UN	United Nations
CCfD	Carbon Contracts for Difference	HSE	Health, safety and environment	PHMSA	Pipeline and Hazardous Materials Safety Administration	USACE	U.S. Army Corps of Engineers
CCS	Carbon capture and storage	IAG	Indigenous Advisory Group	PUCO	The Public Utilities Commission of Ohio	UTRGV	University of Texas Rio Grande Valley
CER	Canada Energy Regulator	IEA	International Energy Agency	RGV	Rio Grande Valley	VFD	Variable frequency drives
CFR	Clean Fuel Regulations	ILI	In-line inspection	RNG	Renewable natural gas	VTRN	Veteran Talent Resource Network
CGA	Canadian Gas Association	INGAA	Natural Gas Association of America	RP	Renewable Power	WCSB	Western Canadian Sedimentary Basin
CHITC	Clean hydrogen investment tax credit	IPIECA	International Petroleum Industry Environmental Conservation Association	S&R	Safety and Reliability		
CO2e	Carbon dioxide equivalent	IRA	Inflation Reduction Act	SASB	Sustainability Accounting Standards Board		
CSA	Canadian Standards Association	IRAP	Indigenous Reconciliation Action Plan	SDG	Sustainable Development Goal		
CSO	Chief Sustainability Officer	ISO	International Organization for Standardization	SEC	Securities and Exchange Commission		
DSM	Demand side management	ITC	Investment Tax Credit	SLB	Sustainability-linked bond		
ECCC	Environment and Climate Change Canada	LEED	Leadership in Energy and Environmental Design	SOBC	Statement on Business Conduct		
EGNC	Enbridge Gas North Carolina	LEPA	Liquid Energy Pipeline Association	STEM	Science, technology, engineering and mathematics		
EIEC	Enbridge Ingleside Energy Center	LLBO	Leech Lake Band of Ojibwe	STEPS	Stated Policies Scenario		
ELT	Executive Leadership Team						

Contact us

If you have any inquiries concerning the 2024 Sustainability Report and/or the 2024 Datasheet, please contact sustainability@enbridge.com.

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