



Enbridge Annual Review 2025

→ The Power of Commitment



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Introduction

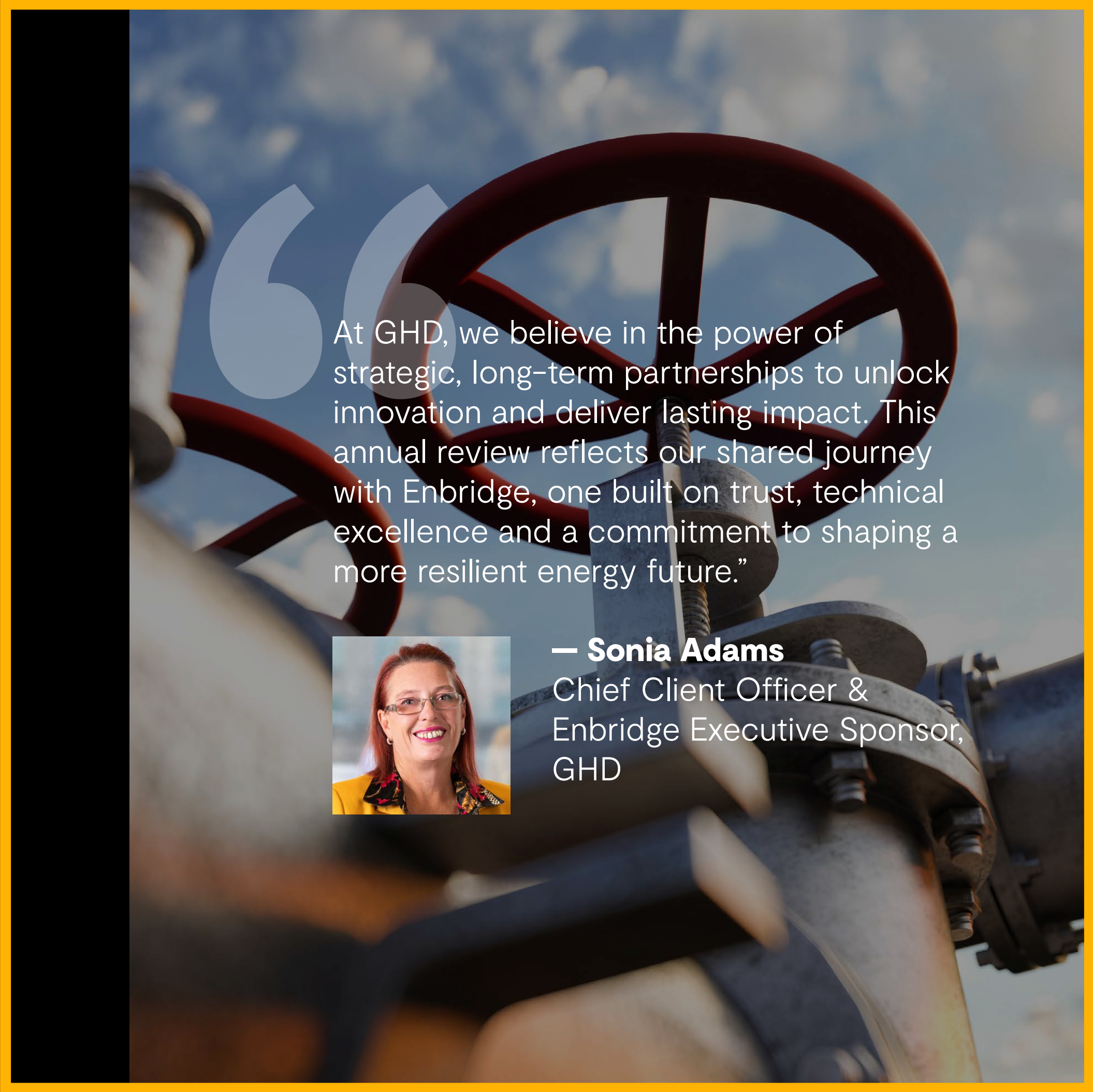
Welcome to the first annual report celebrating the powerful partnership between Enbridge and GHD. For decades, Enbridge has been a leader in traditional and low-carbon energy, safely delivering natural gas, liquids and renewables to meet North America’s energy needs. This legacy of operational excellence and infrastructure expertise now serves as a strong foundation for our shared journey toward a reliable, affordable and secure energy future.

Together, we’re proud to showcase transformative projects that bridge traditional and low-carbon energy, from advancements in safety and environmental stewardship to landmark initiatives in renewable natural gas and hydrogen. Our shared commitment to environmental, social and governance (ESG), as well as safety and resiliency, strengthens our ability to tackle global energy challenges and build a positive legacy.

As we look ahead, GHD remains dedicated to supporting Enbridge’s journey to net-zero by 2050, co-creating innovative solutions for tomorrow’s energy landscape.”



— **Scott Dodd**
Enbridge Relationship Manager, GHD



At GHD, we believe in the power of strategic, long-term partnerships to unlock innovation and deliver lasting impact. This annual review reflects our shared journey with Enbridge, one built on trust, technical excellence and a commitment to shaping a more resilient energy future.”

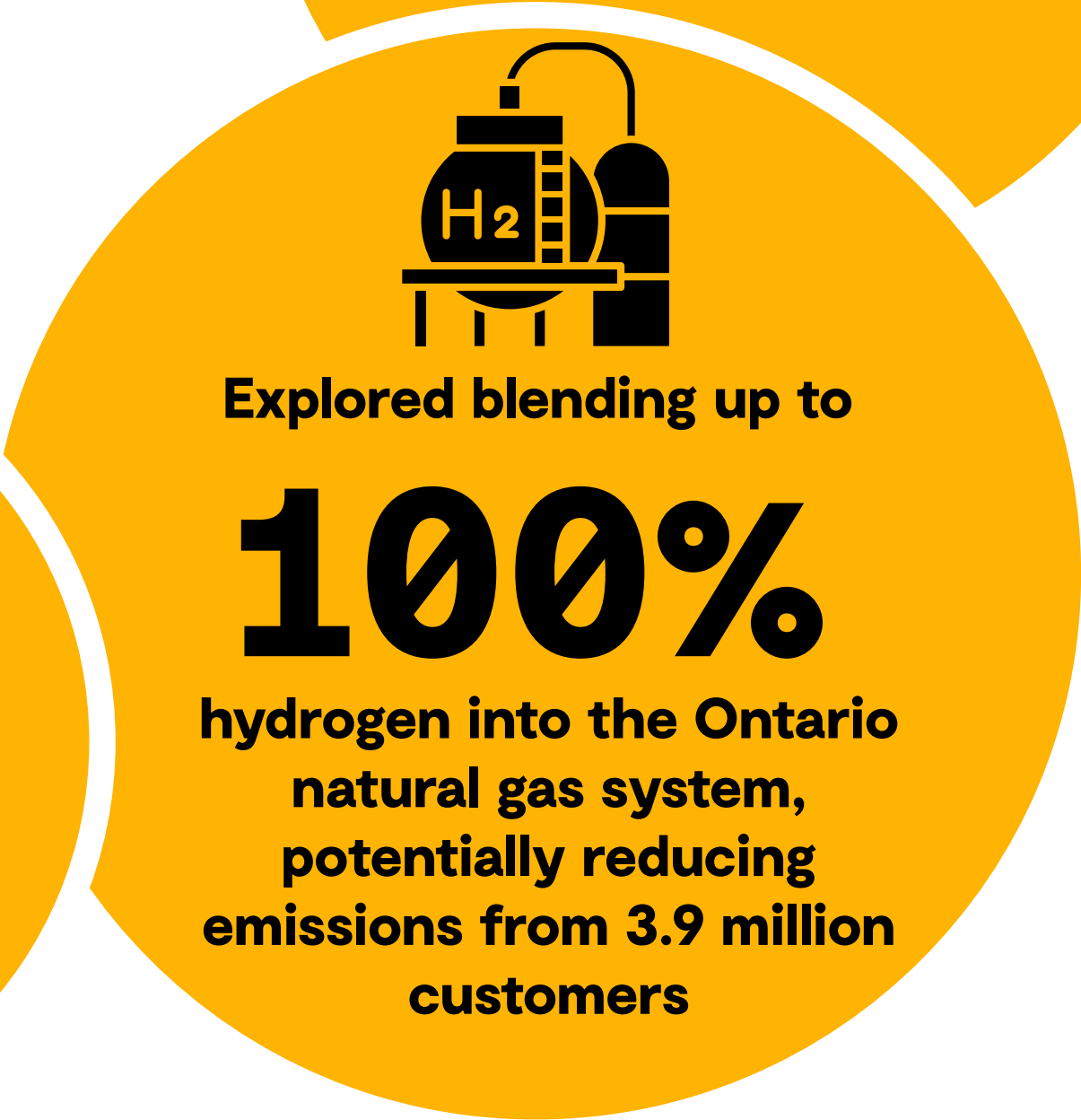
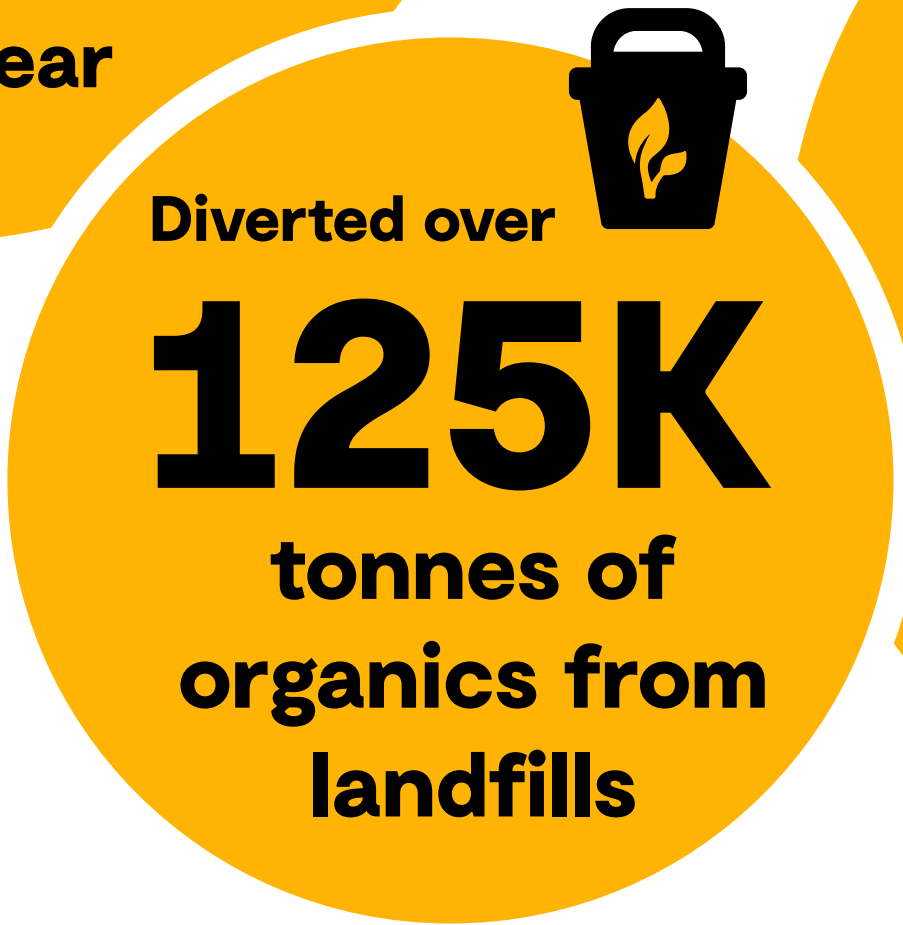
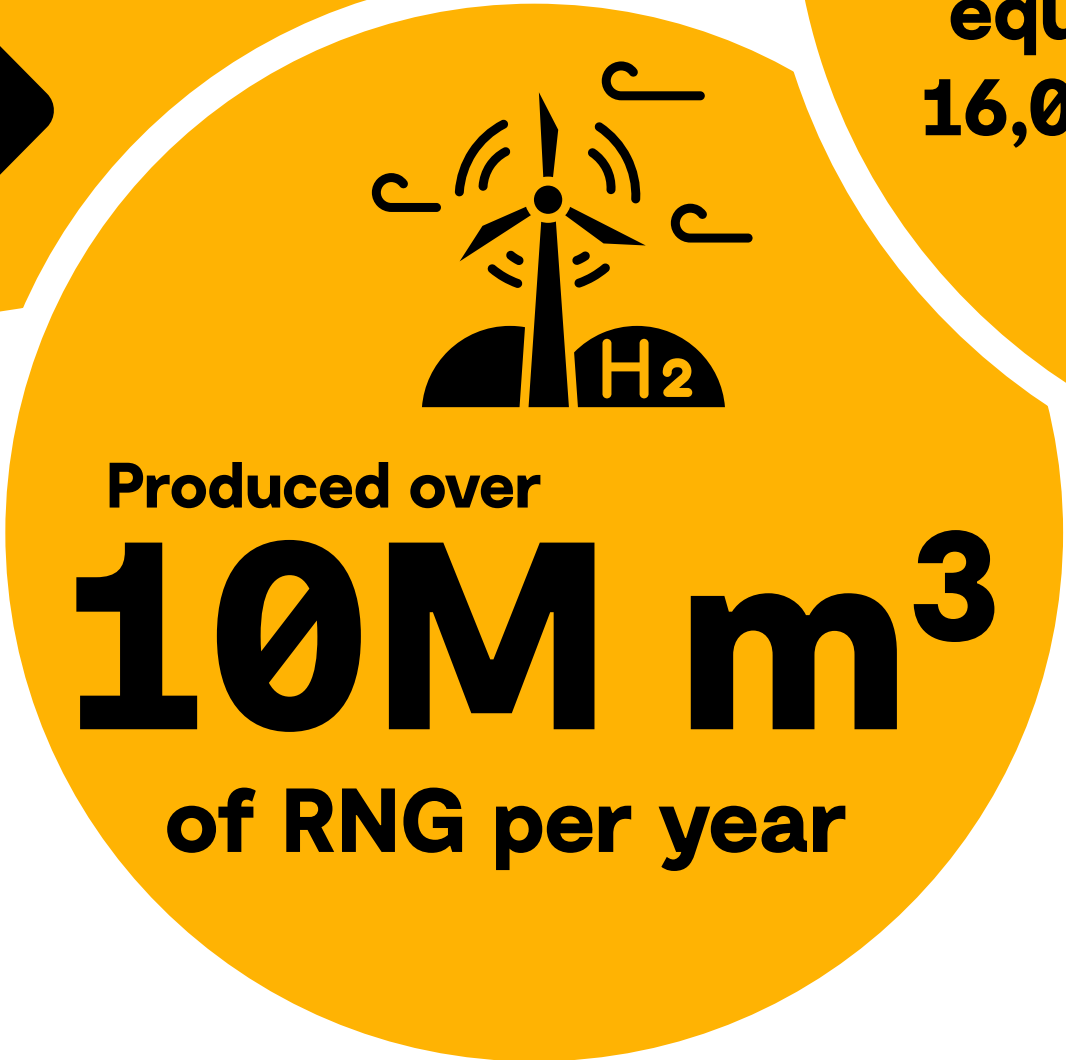
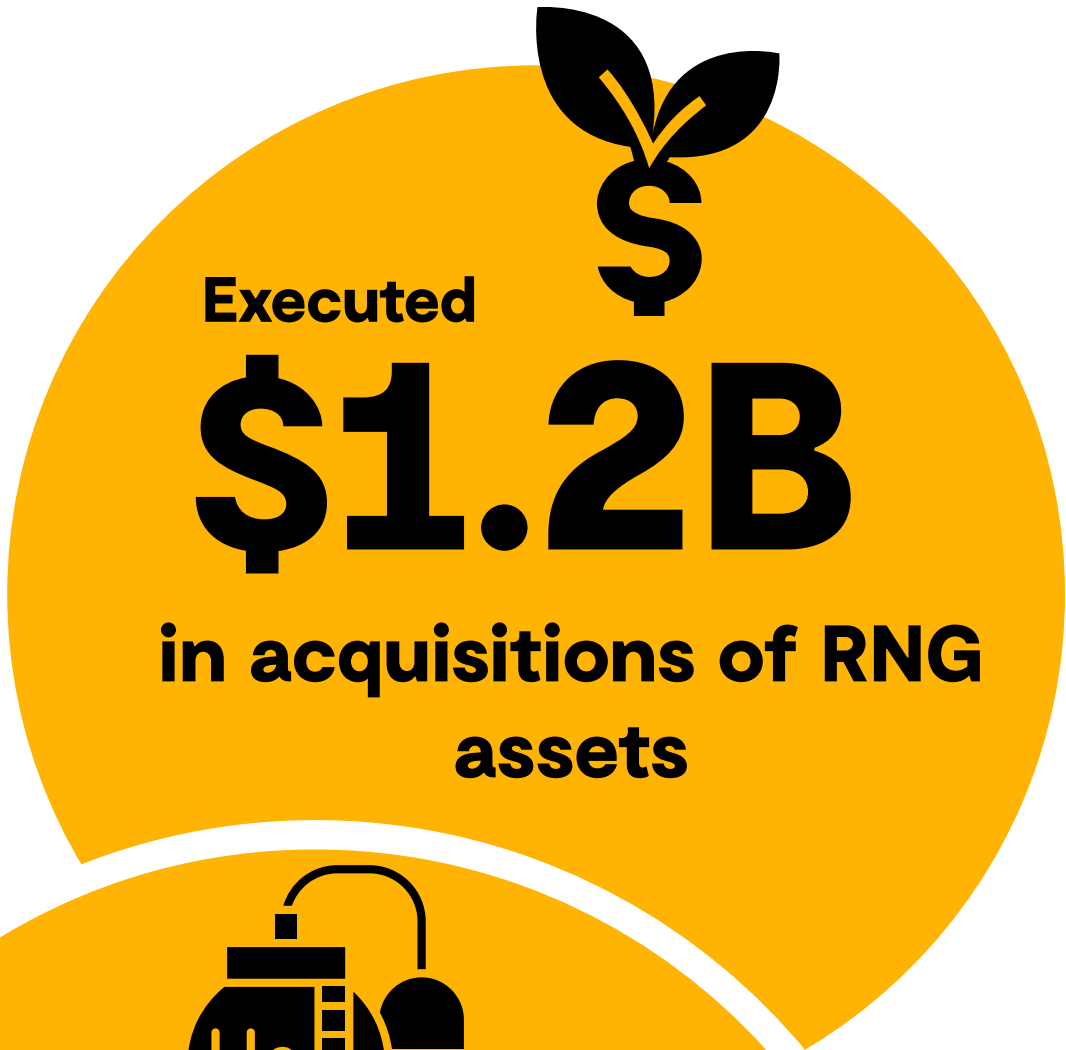
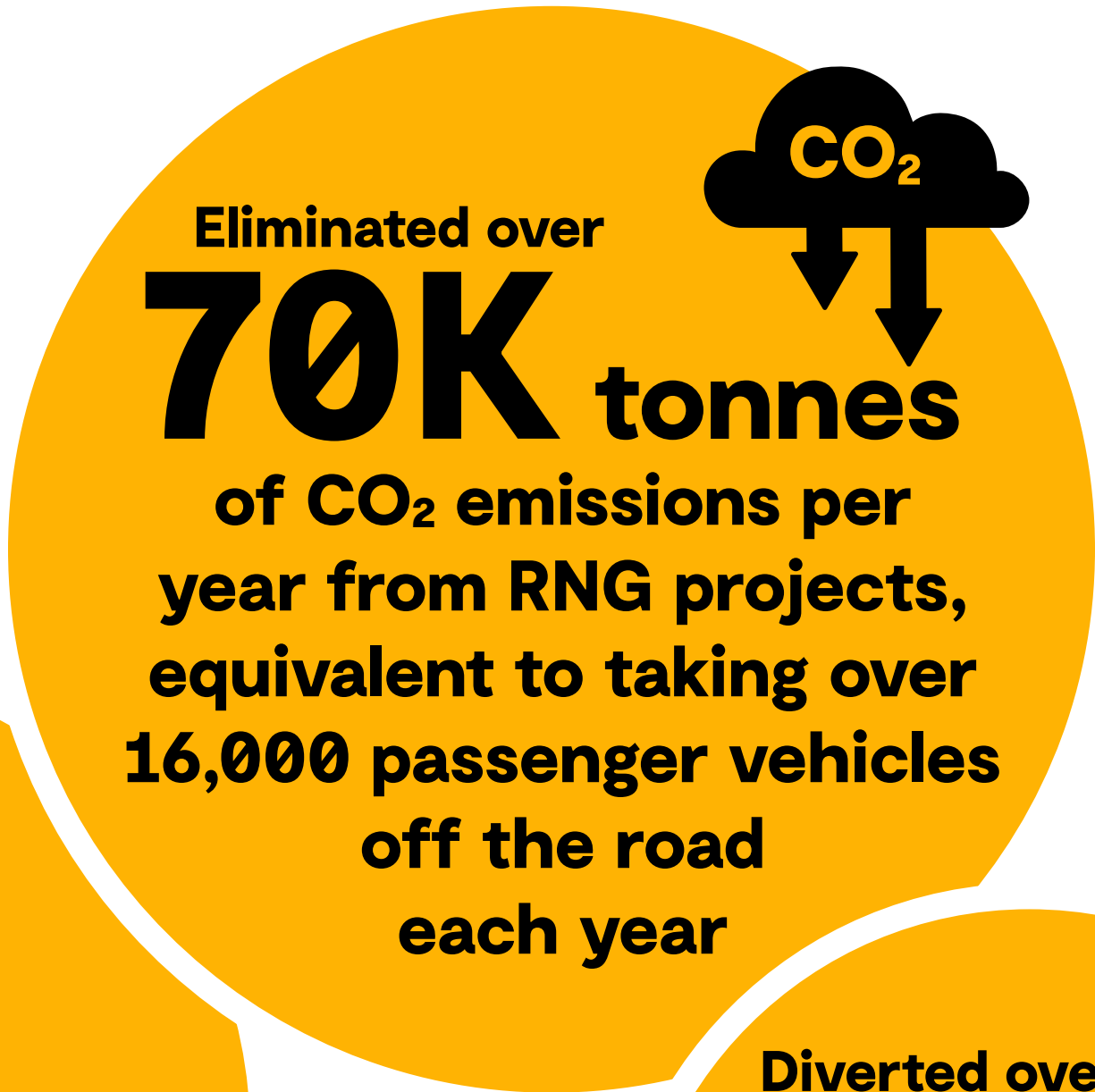


— **Sonia Adams**
Chief Client Officer &
Enbridge Executive Sponsor,
GHD



Our shared impact in numbers

Since 2015, we have:



Transforming energy together: Our partnership in action

→ Environmental

GHD delivers integrated solutions that advance the energy transition, combining strategic planning, infrastructure expertise and innovative technologies. We develop overarching decarbonization strategies, connect them to the practical realities of transmission and distribution planning, and address emerging opportunities such as hydrogen export and digital transformation. Our approach includes developing evidence-based roadmaps for decarbonization, leveraging advanced modeling tools to optimize energy networks, enabling smart utilities through advanced metering infrastructure and automating emissions estimation to support sustainability objectives. This unique, combined service model allows us to provide partners with a clear and actionable roadmap, supporting high-level net-zero goals with robust infrastructure planning and targeted solutions every step of the way.





Protecting our environment: A look at two key projects

At two former Union Gas sites, GHD has provided essential environmental expertise for Enbridge, helping to deliver responsible management and a healthy future for the surrounding communities.

→ Brantford, Ontario: Managing a legacy site

In Brantford, at a former coal gasification property, GHD has undertaken comprehensive environmental assessments to evaluate any potential risks associated with historical operations. The ongoing work involves regular environmental sampling, continuous monitoring and detailed reporting. Through consistent tracking of the site conditions, these efforts are providing critical data to support the maintenance and improvement of environmental quality over time.

→ Hamilton, Ontario: Addressing off-site impacts

In Hamilton, GHD is addressing environmental concerns at a property impacted by contaminants from a neighboring site. The team conducts crucial environmental sampling, monitoring and reporting to assess and manage site conditions. Beyond the technical work, GHD also supports Enbridge in discussions and negotiations with the Ontario Ministry of the Environment, Conservation and Parks, including assistance with regulatory documentation such as proposed draft control orders. GHD also supports Enbridge in navigating potential legal matters related to the contamination.

Through these projects, GHD is committed to helping Enbridge safeguard the environment and responsibly manage its complex sites.

Key contact



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Environment Market Leader
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→ Renewable natural gas

Leveraging its deep expertise in the energy transition, GHD is enabling Enbridge to realize measurable value from its renewable natural gas (RNG) initiatives. From strategic planning to operational execution, GHD is helping Enbridge transform waste streams into reliable, low-carbon energy, reducing environmental impact and positioning Enbridge as a leader in sustainable solutions. Through our ongoing collaborative partnership, Enbridge gains a competitive advantage in meeting net-zero goals and responding proactively to regulatory and market demands.



Circular economy: Fueling a greener city together

The partnership between the City of Toronto, Enbridge and GHD stands as a transformative force for urban sustainability, turning organic waste into a powerful driver of carbon-neutral energy. By pioneering a circular economy, our combined work is enabling the city to slash emissions and set a new benchmark for decarbonization initiatives. The ripple effects of these projects reach far beyond environmental gains, positioning Toronto as a leader in innovative, scalable solutions for a greener, more resilient future.

→ Dufferin: Laying the groundwork

At the Dufferin Organics Processing Facility (DOPF), GHD acted as owner’s engineer for the City of Toronto and as design engineer for Enbridge. GHD’s team oversaw the installation of a biogas upgrading facility and the expansion of the City’s anaerobic digesters. This integration had enabled the facility to produce over three million cubic meters of renewable natural gas annually, reducing emissions by more than 4,000 tonnes of CO₂e each year.

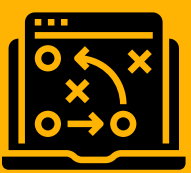
→ Disco Road: Expanding the vision

Building on the success at DOPF, Enbridge contracted GHD to provide full engineering, procurement and construction (EPC) services for the Disco Road Organics Processing Facility RNG project. This project is designed to achieve more than three times the annual emissions reductions accomplished at the Dufferin facility, targeting a decrease of approximately 12,000 tonnes of CO₂e each year, and standing as a successful model for future expansion.

→ Gatineau Wastewater Treatment Plant: GHD stands ready to support the project

Québec is opening the door to big RNG growth. The province now requires utilities to supply at least 2 percent renewable natural gas, moving up to 5 percent by 2025 and 10 percent by 2030. The success of the Dufferin and Disco Road projects has paved the way for the Gatineau Wastewater Treatment Plant (WWTP) RNG facility with Enbridge Gaz Québec. This next-generation project will include full EPC services for the design and construction of an RNG facility and injection into the natural gas pipeline network. The project will support both regulated targets and voluntary programs that help customers cut emissions.

Powering the future of RNG from strategy to operation



Market strategy:
Identifying opportunities



Acquisition:
Securing assets



Optimization and safety:
Maximizing value

As the drive for decarbonization intensifies, Enbridge, in partnership with GHD, continues to set new standards for sustainable energy through strategic investments, technical innovation and market expansion. Our work across North America is shaping a future where RNG delivers tangible environmental and operational benefits and is helping build a cleaner energy landscape.



Morrow Energy acquisition

In a landmark transaction, Enbridge acquired seven operational RNG assets from Morrow Energy for USD 1.2 billion, establishing Enbridge as one of North America’s leading RNG transporters by volume. GHD provided critical technical due diligence, supporting contract negotiations to secure the long-term value of this strategic investment. The acquired assets collectively produce over 5 billion cubic feet of RNG annually, significantly expanding Enbridge’s footprint and capabilities in the sector.

Securing the future: The \$1.2 billion Morrow acquisition

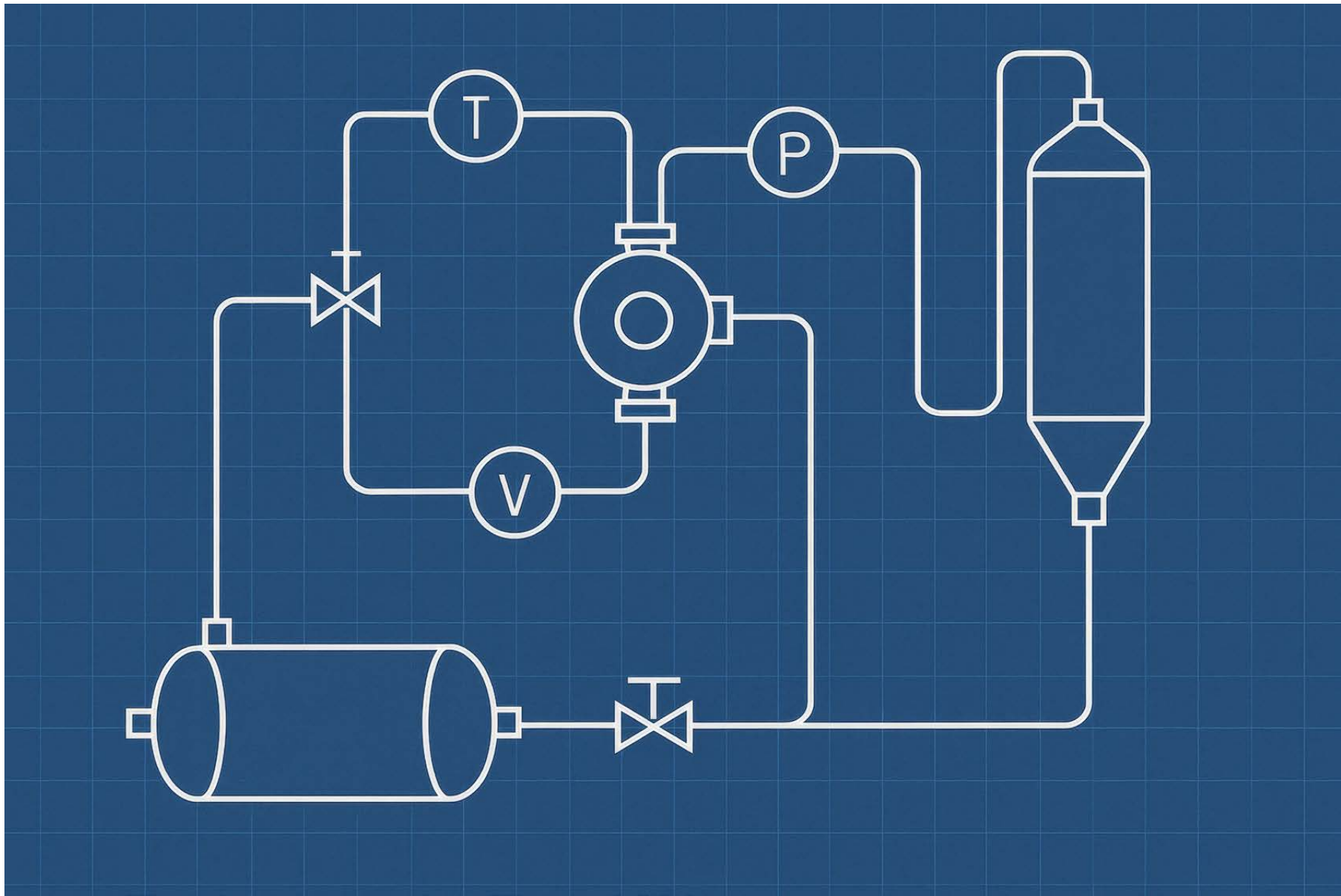
- ➔ Established Enbridge as a leading North American RNG transporter
- ➔ \$1.2 billion acquisition value
- ➔ 7 acquired assets





RNG optimization and safety

Following the acquisition, GHD is providing ongoing support to seamlessly integrate these seven RNG facilities, located in Texas and Arkansas, into Enbridge’s portfolio. The team is delivering process engineering expertise, conducting thorough reviews and updates of all process and instrumentation diagrams (P&IDs) and implementing comprehensive health and safety assessments. These efforts are driving reliability and operational excellence, including a baseline integrity management assessment at Pine Hill to establish initial corrosion rates and prioritize plant integrity.





US landfill gas-to-RNG market entry strategy: Unlocking new opportunities

To further expand Enbridge’s portfolio, GHD helped develop a strategic market entry project focused on landfill gas-to-RNG potential across the United States. The team analyzed and classified 2,600 landfills, concentrating on the five key states where Dominion Energy’s acquired companies operate. Through targeted engagement with landfill owners, GHD and Enbridge identified 30 candidate sites and initiated negotiations for gas rights with four high-potential operators, laying the foundation for future growth in RNG production and supply.

Key contact



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→ Hydrogen

With decades of experience on projects across feasibility, engineering design and safety for both pure and blended hydrogen systems, GHD provides deep technical expertise across the entire value chain to help advance a low-carbon energy future. For Enbridge, GHD has provided key engineering and design support for the Ontario Hydrogen Blending Assessment project and is actively developing core engineering standards to drive the integration of safe and reliable hydrogen solutions across North America.



Building the blueprint for a hydrogen future

GHD provides critical, forward-looking expertise to help Enbridge build the foundational framework for a safe, reliable and large-scale hydrogen future. These strategic projects are essential to understanding opportunities and establishing the standards that will guide the integration of hydrogen into Canada’s energy landscape for decades to come.

→ Defining the roadmap for hydrogen blending in Ontario

Since early 2024, GHD has partnered with DNV on a comprehensive study to assess hydrogen blending across Enbridge’s entire transmission and distribution network in Ontario. This ongoing assessment includes detailed engineering analysis, greenhouse gas modeling and economic studies to determine how the existing system can safely operate with various hydrogen levels, identifying any required upgrades and paving the way for future hydrogen hub development.

→ Delivering engineering standards for hydrogen pipelines

Beginning in July 2024, GHD launched a new initiative to help establish the foundational guidelines for hydrogen infrastructure. As Enbridge moves forward with both conventional and lower-carbon energy sources, GHD’s team is developing core engineering standards intended to guide the design of future hydrogen projects. This foundational work supports the development of standardized, safe and efficient pure and blended hydrogen assets, facilitating the reliable growth of Enbridge’s hydrogen ventures.

Key contact



Fred Taylor
North American Hydrogen Lead
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How GHD and its partners are powering the energy transition

GHD offers a holistic approach to the energy transition by seamlessly integrating decarbonization strategies to the practical realities of infrastructure planning and implementation. This unique approach allows us to provide partners like Enbridge with a clear and actionable roadmap, ensuring that net-zero goals are translated into actionable outcomes and supported by targeted solutions every step of the way.

→ Comprehensive decarbonization strategy development

For partners like Liberty Utilities in New Brunswick, GHD is developing a comprehensive, evidence-based decarbonization strategy designed to serve as a model for other regions. This work includes a hydrogen readiness study, an evaluation of the entire hydrogen value chain — covering production, transport, storage and end-use — and technical assessment of the existing gas distribution network. By establishing a detailed roadmap with actionable steps, GHD is enabling Liberty Utilities to progress towards its net-zero targets and support New Brunswick’s broader clean energy goals.

→ Transmission and distribution planning with PLEXOS

To achieve a resilient and efficient energy transition, a deep understanding of the entire energy ecosystem is critical. GHD leverages advanced modeling tools like PLEXOS, a trusted energy market simulation platform, to analyze the complex interplay between electricity and gas networks. This approach can help co-optimize systems, assess the impact of renewables and new technologies, and provide partners with a data-driven view of the most effective pathways for grid modernization and decarbonization. By simulating a wide range of future scenarios, GHD helps de-risk major investment decisions and prepares infrastructure for the demands of a net-zero future.

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➔ **Large-scale hydrogen export**

GHD is helping pave the way for hydrogen export, having delivered Canada’s first pre-feasibility study for large-scale blue hydrogen export for Kansai Electric Power Company and ATCO Energy Solutions. This work included a full value chain assessment, from hydrogen production in Alberta to tidewater export via British Columbia and delivery into Asian markets. The study evaluated multiple transport modes, alternative carrier molecules and carbon capture integration, while engaging regulators, Indigenous Nations and commercial off-takers. The cross-jurisdictional nature of the project demanded technical depth, regulatory foresight and market integration.

➔ **Advanced metering infrastructure for smart utilities**

GHD supported utility clients in deploying Advanced Metering Infrastructure (AMI 2.0), integrating smart meters, real-time analytics and customer engagement platforms. These projects enabled utilities to move beyond basic meter reading and billing, with proactive leak detection, improved asset management and enhanced customer service. The AMI 2.0 approach addressed cybersecurity, data privacy and workforce training, delivering a smooth transition to digital operations. This proven methodology helps gas utilities improve efficiency, data accuracy and sustainability.

➔ **Automating tank emissions estimation**

GHD partnered with a major energy client to automate the estimation of tank emissions, using EPA’s Tanks 5.0 tool and robotic process automation. This solution streamlined the process from data collection to emissions reporting, reducing manual handling and errors. Data was securely managed in

the cloud, and rolling 12-month emissions estimates were tracked against regulatory limits. The approach improved compliance, accelerated reporting and lowered operational costs, demonstrating how energy companies can modernize emissions management and support sustainability objectives.



Your feedback on GHD

A partnership in action: The Enbridge perspective

“GHD is one of the top-performing contractors that I have ever worked with at Enbridge. They **act as a partner, not just a contractor**, and consistently demonstrate flexibility, resourcefulness and a readiness to face challenges head-on.”

— **Alexander Hadjis**
Supervisor, Capital Project Execution Low Carbon Technologies and Transit, Enbridge

Transparent **Resourceful**
Reliable Collaborative **Accurate**
Trustworthy **Flexible**
Technically authoritative

Project spotlight: Disco Road RNG facility

“The Disco Road RNG project was hugely successful, thanks to GHD’s collaborative approach and transparency on change orders. Special appreciation for Dave Chambers, Rob Seegmiller, Shane English and the entire GHD team.”

— **Gordon Lau**
Manager Sales Support, Enbridge

Future opportunities

Enabling low-carbon growth for data centres

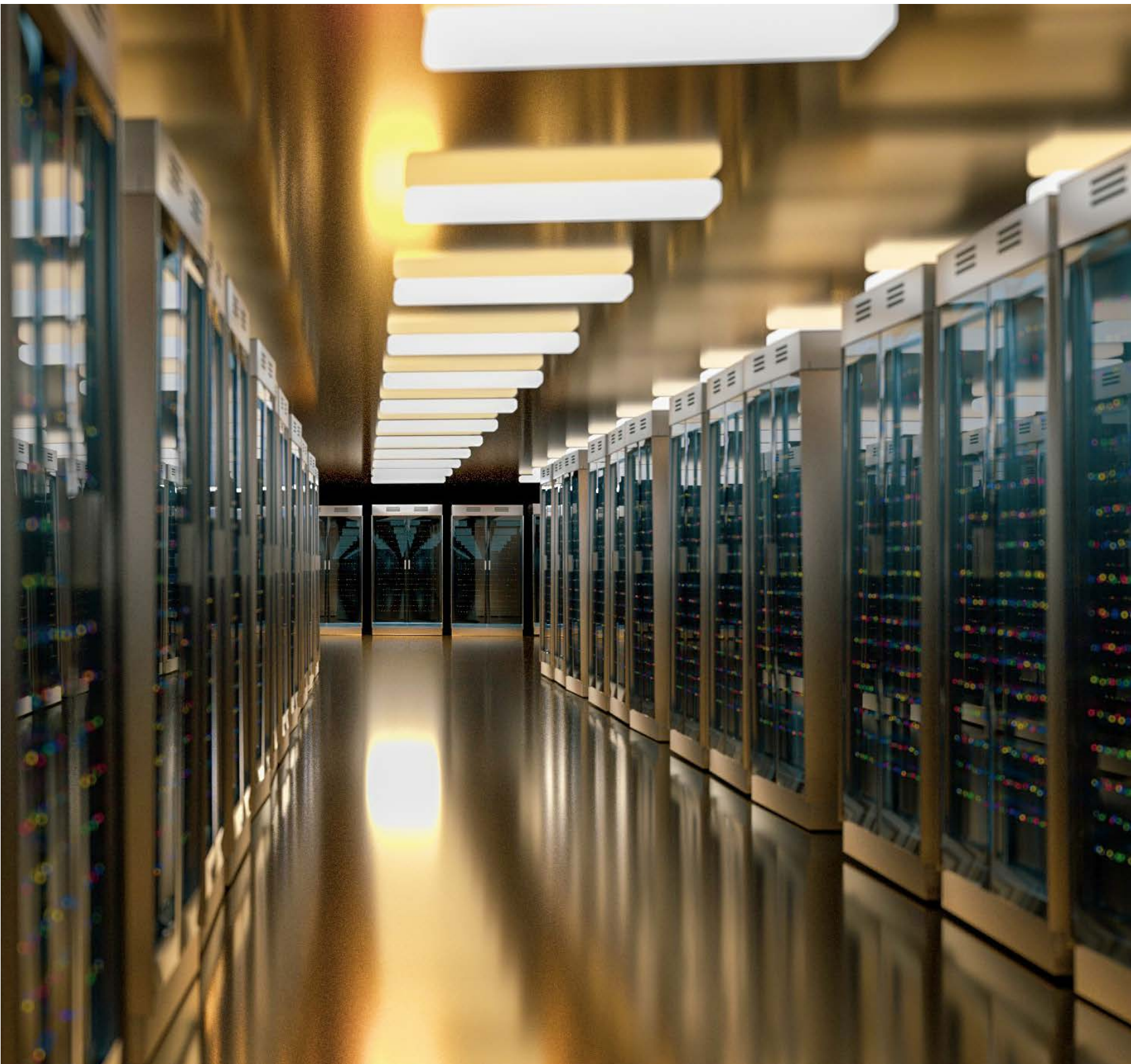
Enbridge is strategically positioned to support the growing energy demands driven by the rise of artificial intelligence and data centres, and deliver reliable baseload power essential to the sector’s always-on needs.

As artificial intelligence and digital services surge, data centres are projected to consume over 1,000 TWh of global electricity by 2026. This growth presents a critical opportunity for utilities like Enbridge to support the sector’s expansion while enabling the transition to low-carbon energy.

The energy trilemma — affordability, sustainability and reliability — poses a significant challenge for data centres. They must balance the need for cost-competitive solutions with sustainability legislation and maintain ultra-reliable power sources while facing challenges such as grid interconnection delays, emissions scrutiny and water use constraints.

Renewable energy, particularly from wind and solar, is expected to play a crucial role in data centre decarbonization. However, renewables alone are intermittent, requiring supplemental systems like battery energy storage or alternative fuels like ammonia, methanol and hydrogen to provide a steady power supply. Utilities can play a pivotal role by providing reliable baseload power from natural gas or renewable energy and enabling hybrid infrastructure and storage systems.

Recognizing the global growth in data centres and artificial intelligence, GHD is expanding into emerging markets to support digital transformation globally with scalable, low-carbon infrastructure. Working with developers, technology providers and utilities, GHD is delivering integrated energy solutions that help data centres overcome grid connection, planning and power supply challenges. Together, Enbridge and GHD can help unlock a more reliable, sustainable and resilient digital future.



Your key contacts



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