

Enbridge Gas RNG Customer Meeting



Proudly Serving Ontario | 175 YEARS

August 24, 2023
Toronto ON

Agenda

Agenda item	Speaker
Welcome message	Scott Dodd
Enbridge Gas RNG experience <ul style="list-style-type: none">• Partnering and connecting with Enbridge Gas• Bringing your RNG to Dawn	Igor Mozetic Ginny Hawken
Enbridge Gas RNG procurement and advocacy	Nicole Brunner
Q&A	Open to all speakers
Closing remarks	Jim Redford

Welcome message

Scott Dodd

Director Business Development



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Preparing for the energy future

We strive to make an impact along the entire energy value chain. We do this by:

- modernizing our assets
- investing in our people developing subject matter experts
 - project management, integration, implementation, administration
- providing patient capital
- promoting market transformation with wider availability of low-carbon energy



Enbridge Gas is ensuring we will meet the growing energy needs of the future while reducing emissions

Enbridge Gas RNG experience

Partnering and connecting with Enbridge Gas

Igor Mozetic
Specialist RNG



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The Future of Clean Energy

Enbridge Gas is leading the transition to low-carbon energy by helping customers produce and use renewable natural gas



Agenda



RNG overview



**How
Enbridge Gas
supports RNG**

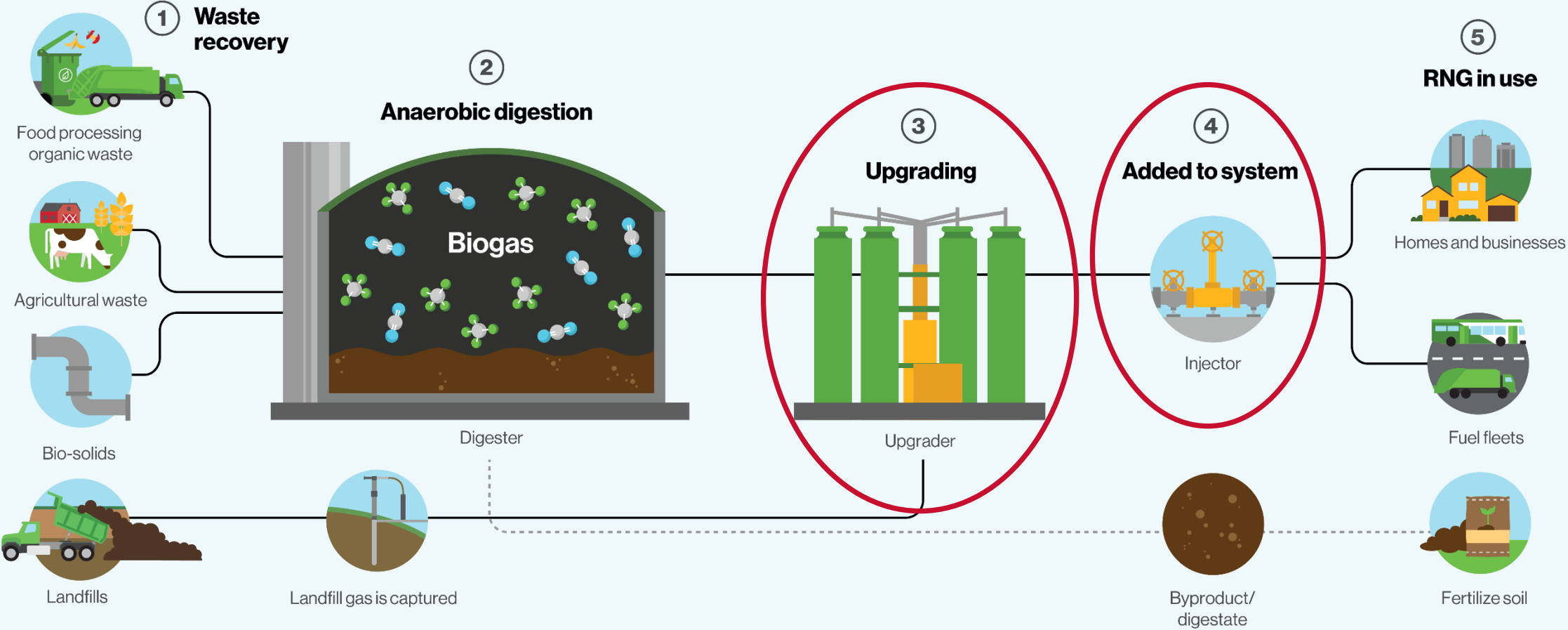


Case studies



What's next?

RNG overview



How Enbridge Gas supports RNG



Feasibility

Determine your opportunity

Assess your facility's capacity

Production

Produce your own biogas

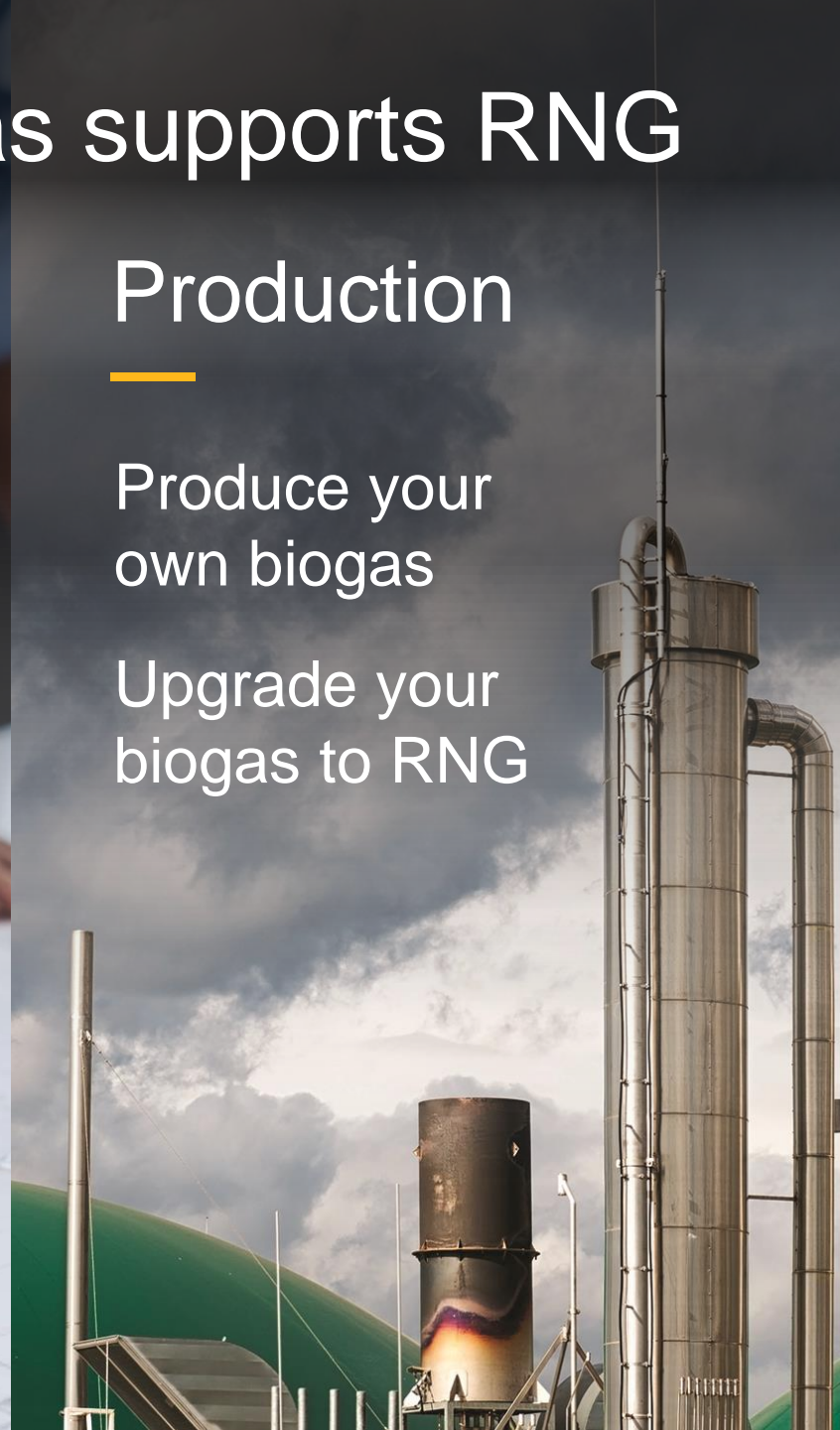
Upgrade your biogas to RNG

Selling and using RNG

Inject your RNG into the pipeline

Get your RNG into market

Your opportunity to use RNG



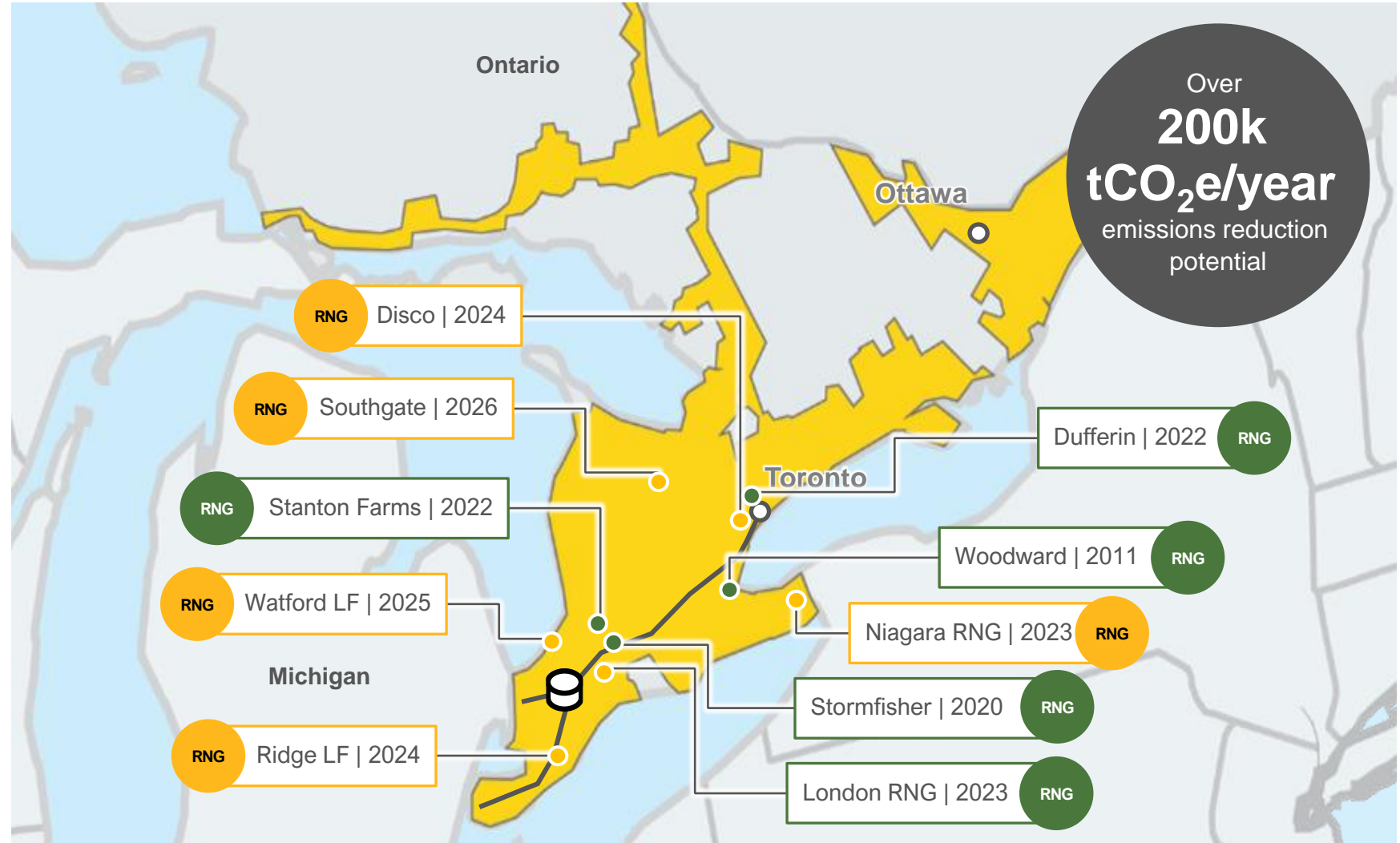
Enbridge Gas: RNG production sites

In service

- Five facilities
- 16.5MM m³/year of RNG
- All anaerobic digesters

Contract and in development

- 5 facilities
- 110MM m³/year of RNG
- Landfills emerge



Success story

Ridge Landfill regulatory approval

- First RNG project to go through OEB regulatory process and receive approval.
- Construction started.
- Injection 2024.
- Anticipated to produce approximately **24.1 million m³** of RNG.
- Eliminates **110,000 tonnes** of CO2 emissions.



Success story

City of Toronto: Dufferin Solid Waste Management Facility

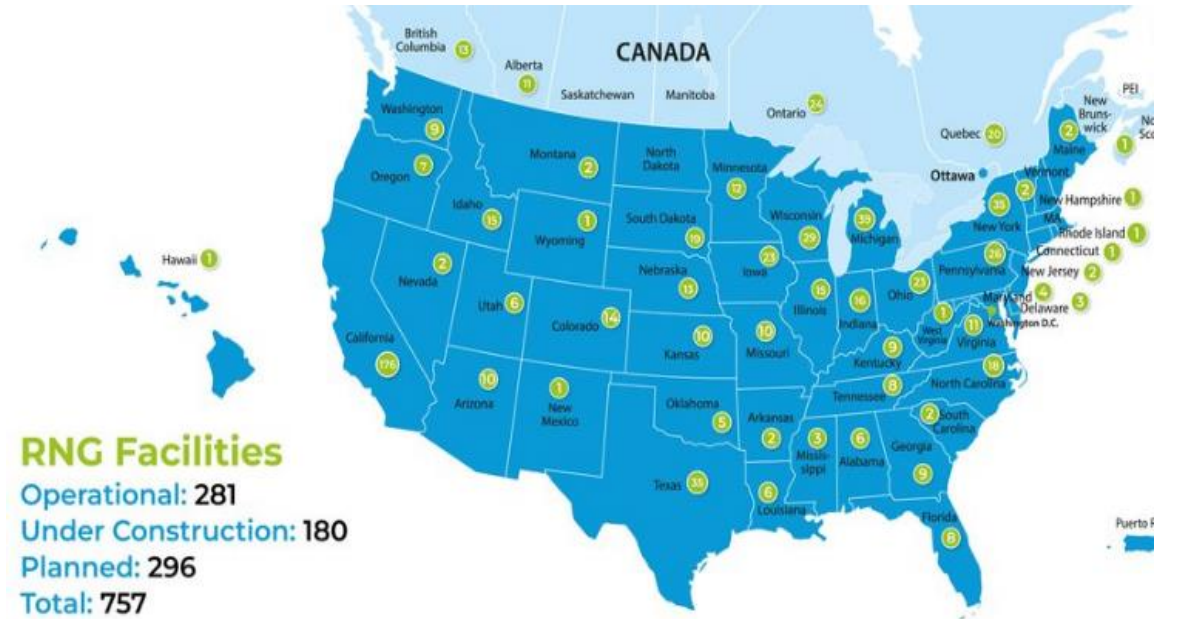
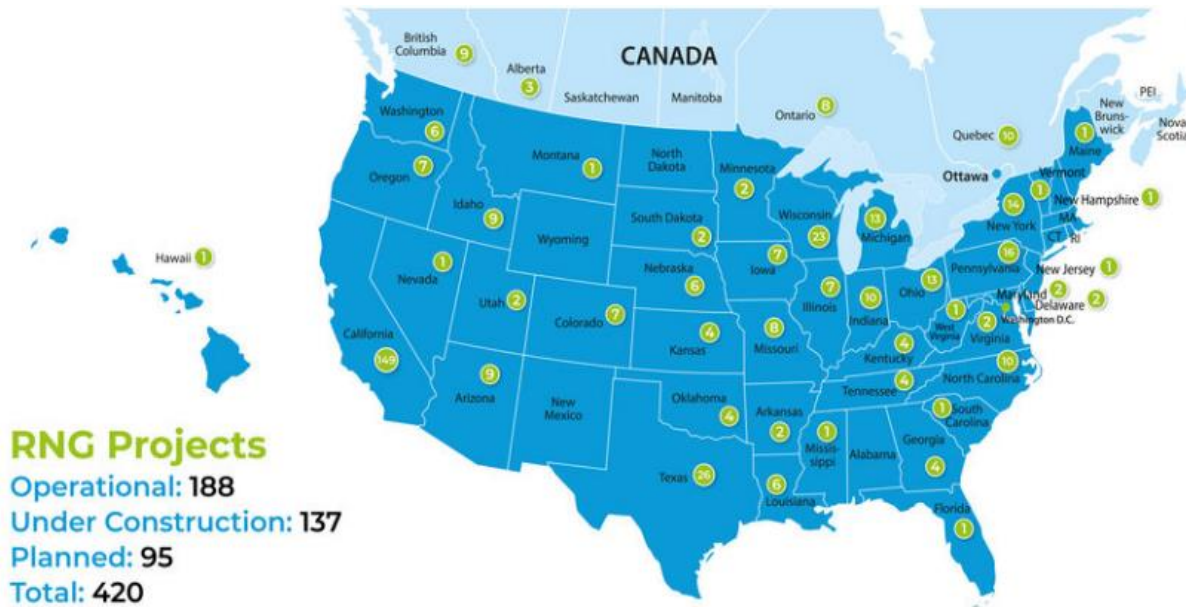
- Processes **55,000 tonnes** of organic waste.
- Will transform about **35%** of its organic waste into RNG.
- Anticipated to produce approximately **3.3 million m³** of RNG.
- Eliminates **9,000+** tonnes of CO₂ emissions.



What's next?

2021

2023



Ready to get started? Connect with an expert.



We're ready to provide you with the technical expertise and information to produce and use RNG.

igor.mozetic@enbridge.com

rng@enbridge.com

enbridgegas.com/rng



Enbridge Gas RNG experience

Bringing your RNG to Dawn

Ginny Hawken

Sr Advisor S&T Sales



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The Dawn Hub

Reliability

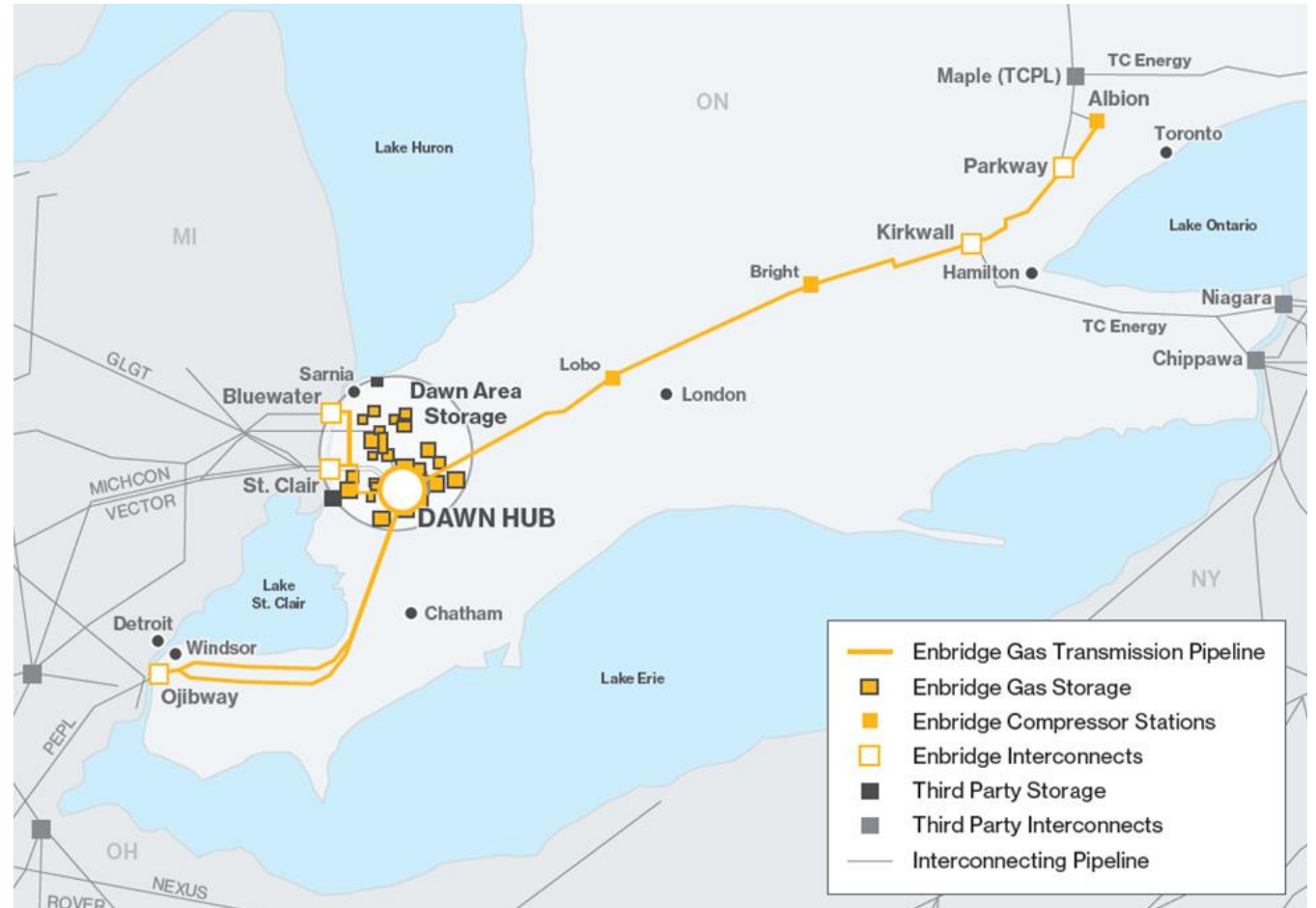
- Protection against loss of critical units.
- Highly integrated storage and transmission.

Liquidity

- Over 100 companies active at Dawn every day.
- Traded on ICE and NGX, direct trading (one-on-one).

Security

- Connected to most major supply basins.
- ~ 7.9 PJ/day takeaway capacity.
- Interconnects directly with 8 supply pipelines, and 7 indirect connections.



Buying and selling your RNG at Dawn



Producers feed gas into Enbridge Gas' system at their station



Gas production is then transported to Dawn



Producers have the ability to market and sell their gas at Dawn



Balance production and sales within negotiated parameters




Scheduling and reporting self-service options available via Enerline

The Dawn Hub is ready to support the growing market demand for renewable natural gas (RNG).

RNG tracking and reporting in Enerline



Transportation Services 



Storage Services 



Balancing Services 

The Dawn Hub is ready to support the growing market demand for renewable natural gas (RNG).

Are you ready to talk services? Get in touch.



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We're ready to provide you with services that meet your demands.

For more information on our Storage and Transportation Services contact your account manager.

ginny.hawken@enbridge.com

EnbridgeGas_STSales@enbridge.com

enbridgegas.com/storage-transportation



Renewable natural gas market development

Nicole Brunner, Manager New Energy Supply



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Net Zero 2050: Path to Success

Energy powers our vehicles, warms our homes and helps produce the goods we use every day. Addressing these three largest sources of emissions through a diversified energy system is the most cost-effective and resilient way to achieve net zero.

Energy sources

Transition to renewables.

A mix of renewable power, renewable natural gas and hydrogen for clean and reliable energy.

Transportation

Switch to lower-emission sources.

Electrification of light-duty vehicles.

Compressed and renewable natural gas and hydrogen for hard-to-electrify heavy transport.

Building heating and cooling

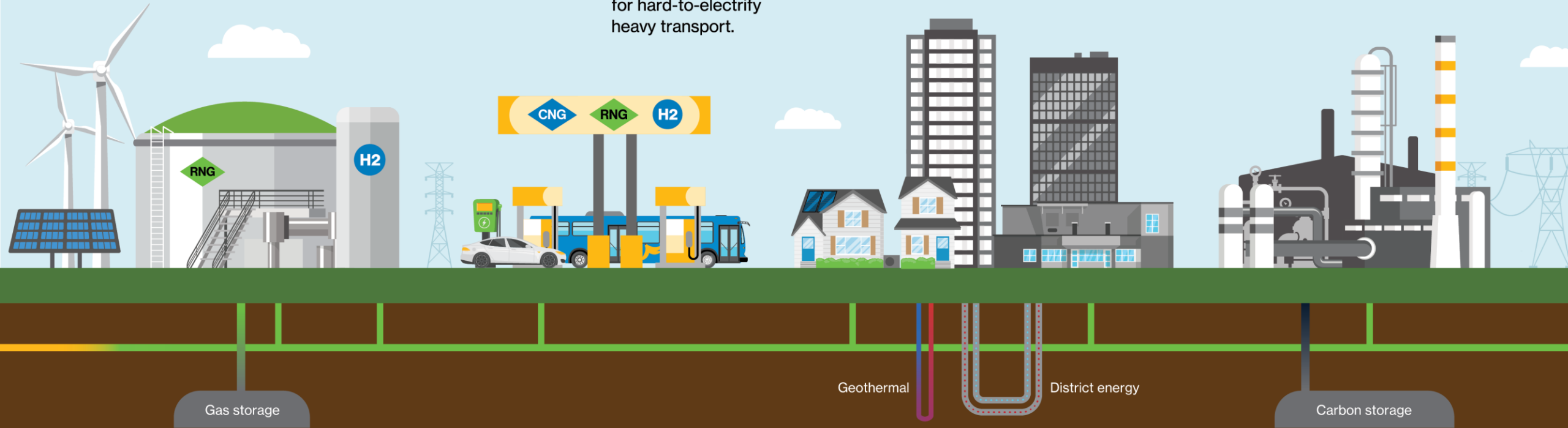
Adopt high-efficiency technologies.

Energy conservation, heat pumps, hybrid heating, geothermal, district energy and green fuels for clean and reliable heat.

Industrial processes

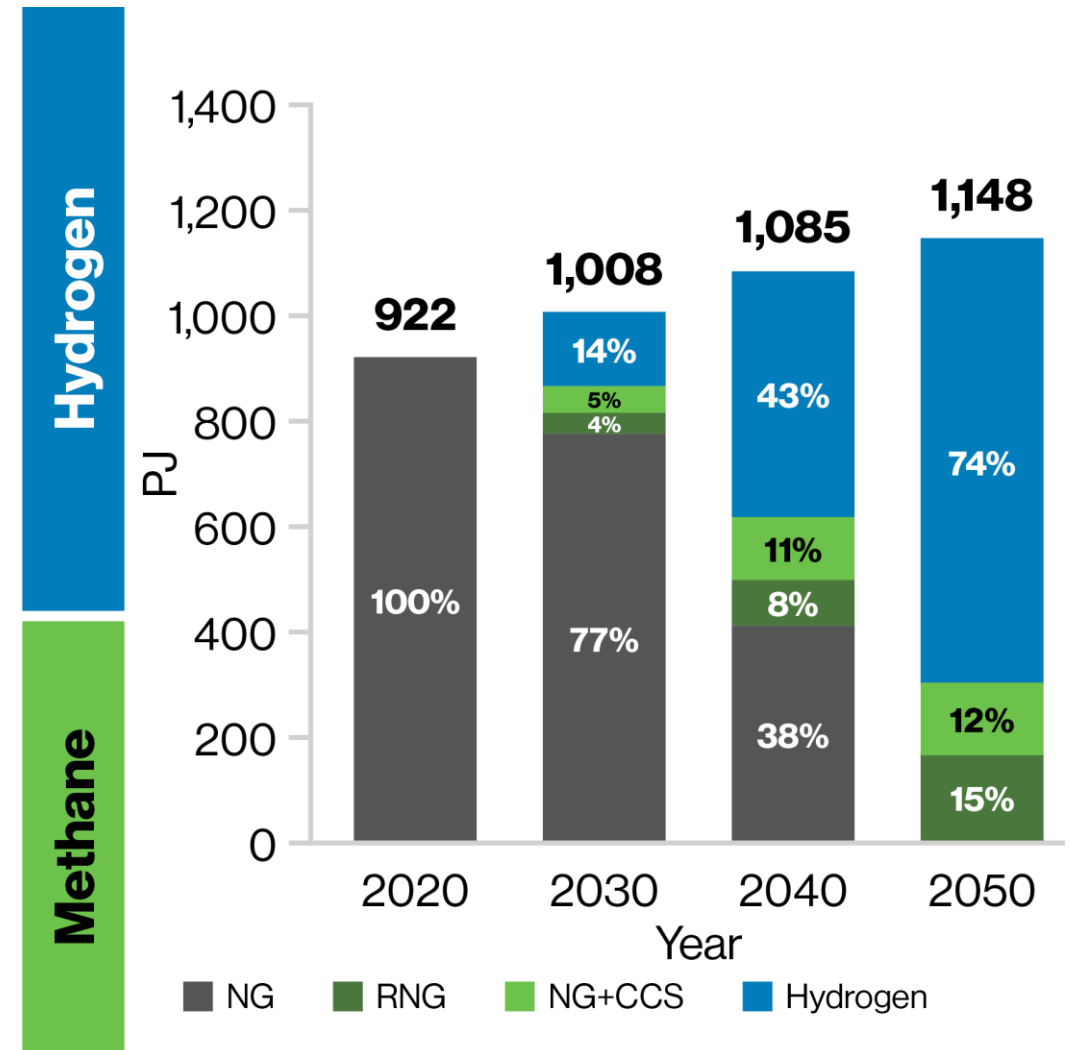
Advance innovative technologies.

Energy conservation, hydrogen and carbon capture for processes that can't easily be electrified.



Diversified pathway to net zero

- Diversified pathway to net zero sees both electricity and non-electricity demand increase.
- Non-electricity energy demand grows over 200 PJ/year by 2050 from 2020 levels.
- Energy mix shifts from 100% natural gas to a combination of hydrogen, natural gas with CCS and RNG.
- No mandate in Ontario for low-carbon energy procurement.



Rebasing proposal low-carbon energy procurement

Seeking to procure low-carbon energy in system supply starting with 1% of supply in 2025 to 4% in 2028 with **two mechanisms for cost recovery.**

1. Low carbon voluntary program (LCVP): offer customizable program to large volume sales service customers to receive supply as RNG.
2. Incorporate the costs and share benefits of low carbon energy that are not covered in the LCVP as part of system supply for all customers. Set a \$2 per month per target percentage bill impact for residential customers.

Year	Percentage blend	Quantity of RNG required (PJ)	Bill impact cap
2025	1%	5.3	\$2.00
2026	2%	10.6	\$4.00
2027	3%	15.9	\$6.00
2028	4%	21.2	\$8.00

Reduces 1.06 Mt of carbon emissions by 2028 and \$150 million in Federal Carbon Charges for customers.

RNG proposal comparison



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Enbridge Gas rebasing proposal

Positioning	Percent	Quantity	Procurement approach
Voluntary large volume customer program and residential blend	4% of system sales customers' supply	<ul style="list-style-type: none"> 5.3 PJ in 2025 Increasing by 5.3 PJ/year until we hit 21 PJ/year 2028 	Rate impact cap for residential

Low carbon voluntary program

- First access to all RNG procured
- Available to large volume all system-sales customers
- Annual election of up to 100% of actual consumption as RNG
- Pay RNG Price premium with no markup

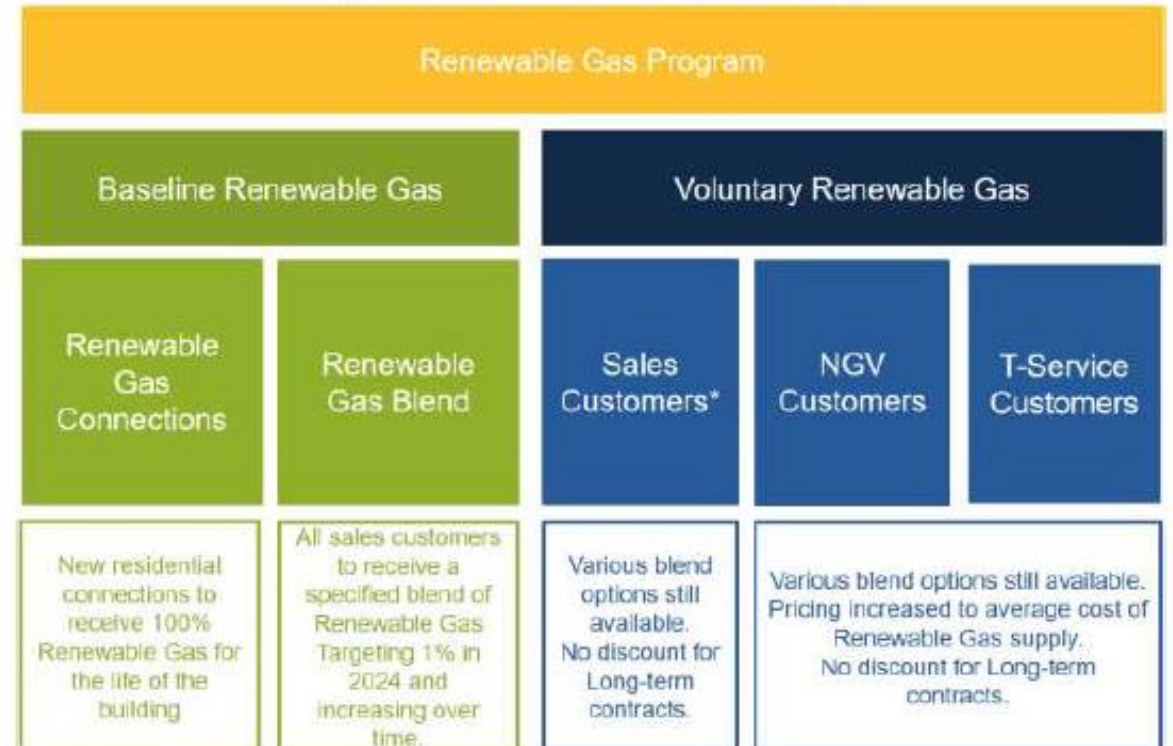
System supply blend

- RNG not elected for voluntarily, will be blended into commodity for all system sales customers.

Fortis BC

Positioning	Percent	Quantity	Procurement approach
New residential and blend	15% of throughput	30 PJ/year by 2030	\$30/ GJ with escalator

Figure 7-1: Revised Renewable Gas Program



Providing options for your supply

Once your RNG is in Enbridge Gas' system, you have options on how to use it:

1. Bring your RNG to Dawn to sell it in the market.
2. Self-consume the RNG for your own operations via your Direct Purchase agreement.
3. Sell your RNG to Enbridge Gas at Dawn or via a Gas Purchase agreement at your production location.



Meeting customer demand for RNG

- Extensive conversations with customers looking to decarbonize their energy.
- Launched non-binding expression of interest for proposed voluntary RNG program.
- Interactive GHG and cost calculator on our website.
- Advocating for changes to Ontario's Emissions Performance Standard to enable large industrials access to RNG.
 - Provincial advocacy required to recognize notionally transported RNG.
 - Partnering with IGUA, customers and other industry organizations.

Advancing progress as leaders in market development

- Supporting key industry issues and enabling customer access:
 - Canadian Biogas Association ITC advocacy
 - Clean Gas Standard development
 - Advocacy for ease of transaction, supporting a liquid market
 - Community building and facilitating market connections
- Looking at next steps in market development
 - Achieving 10% of throughput by 2040



Ask: Ontario Energy Board proposal support

- RNG is a viable supply source to support a diversified energy future in the province.
 - Supply potential of RNG.
- Low-carbon energy procurement, seeking support in two ways:
 1. **Memorandum of Support Enbridge Gas will share with the Ontario Energy Board**
 - Template for producers sharing intent to produce RNG is available and we will be in contact.
 - Critical to hear from customers who want access to RNG.
 2. Participate through the industry associations you are members of who are registered intervenors.

Jim Redford closing remarks
