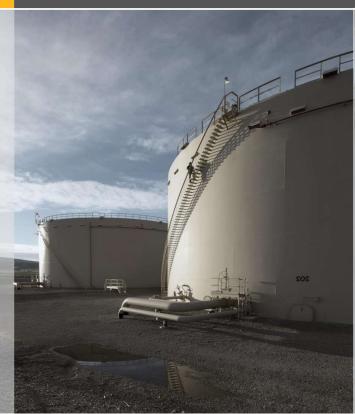
Customer Webinar: Distribution In-Franchise Sales











Agenda



Agenda item	Speaker
Welcome & Logistics	Julie Alexander, Account Manager
Safety Moment – Dig Safe	Lewis Oatway, Account Manager
Opening Remarks	Cynthia Hansen, EVP & President, Gas Distribution & Storage, Enbridge Inc.
Operations Update	Clancy O'Hara, Director, Gas Control & Management
Regulatory Update & Timelines	Amy Mikhaila, Manager, Rates
Service Harmonization	Ryan Organ, Manager, Policy & Sales Support
Welcome to Enerline	Kristen Pillon, Supervisor, Business Applications
Carbon Pricing Update	Jennifer Murphy, Supervisor, Carbon Strategy
Energy Transition	Scott Dodd, Director, Business Development
Q & A	Andy Duquette, Specialist, Power Markets
Closing Remarks	Tanya Mushynski, VP Customer Care

Safety moment



Dig safely: It's the law



- Underground natural gas pipelines may be closer to the surface than you think
- Digging in the wrong place, even with a simple garden shovel, could create a safety hazard or cut off service to an entire neighbourhood
- You could be held liable for all of it
- Locate underground utility lines before you do any digging on your property



But won't my contractor take care of this?

Some contractors can, but it's best to ask and ensure that safety is the top priority

What do you need to do before you dig?



- 1
- Find out what's underground IT'S FREE

A minimum of five days before digging, visit www.ontarioonecall.ca or call 1-800-400-2255 and make a request to know where natural gas lines are buried and where to avoid digging

2

Wait for the locators to arrive

Once your request is received, Enbridge Gas or a designated locate service provider(s) will visit your home and locate the underground utilities so you can complete your project safely

Visit <u>www.ontarioonecall.ca</u> or call 1-800-400-2255

What do you need to do before you dig?





Now you can dig

Damage to natural gas lines can result in a leak, fire, explosion, or cut off utility service to an entire neighborhood

Homeowners and/or their contractors who cause damage can be fined, charged for costly repairs to equipment or neighbouring property, or even face legal action if someone is injured

Opening remarks

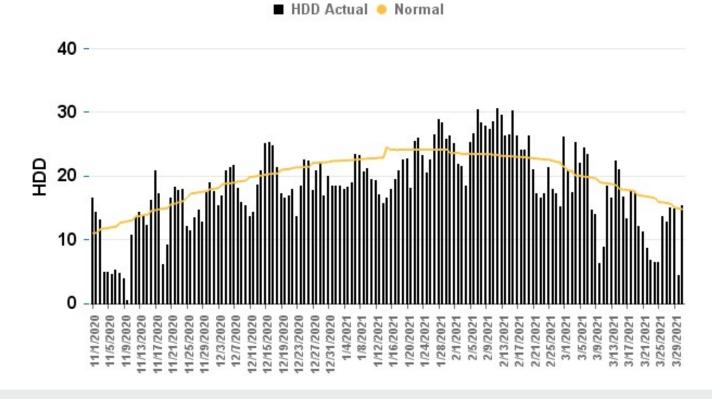


Operations update



Winter recap: 2020 - 2021 daily HDDs



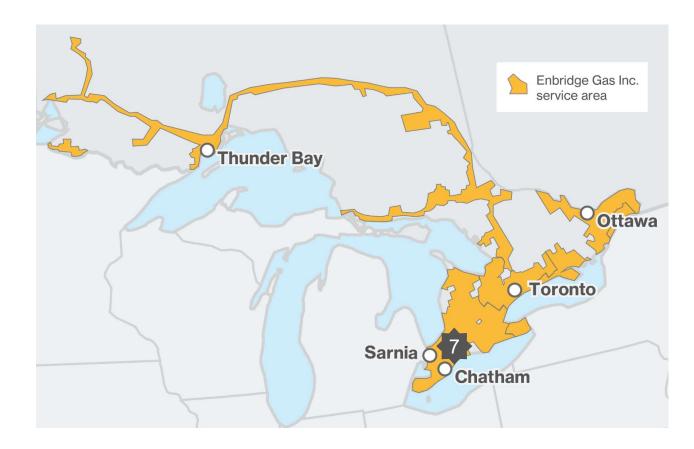


Sustained cold occurred only in early February

Customer interruptions



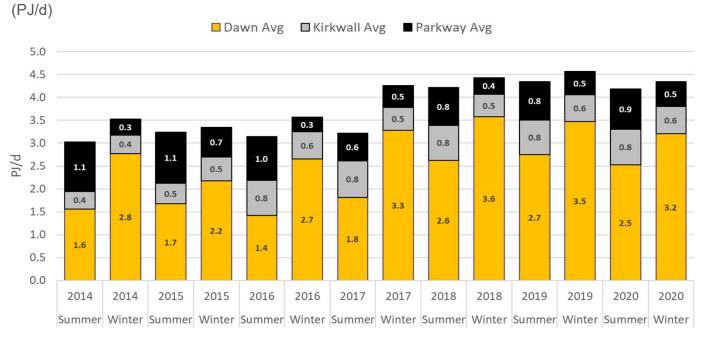
- **1. Jan 19** One customer, pipeline maintenance
- **2. Jan 28** One customer, Weather: system capacity
- **3. Feb 4** One customer, Weather: system capacity
- **4. Feb 4** Two customers, pipeline maintenance
- **5. Feb 7** One customer, Weather: system capacity
- **6. Feb 16** Two customers, pipeline maintenance
- 7. Feb 21 One customer, Weather: system capacity



Supplies





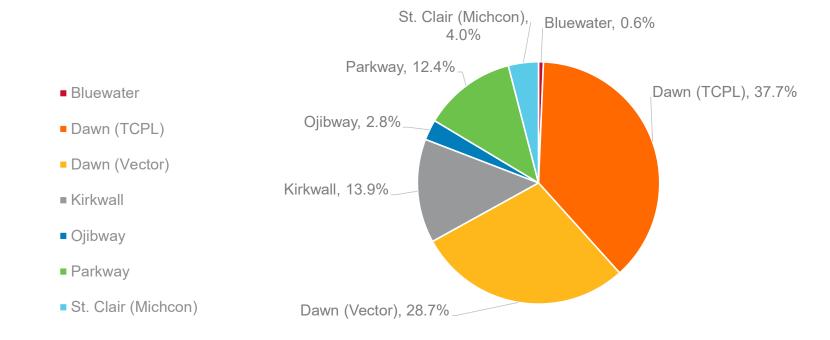


Dawn receipts down 0.3 PJ/d from W19-20

Supplies

Pipeline receipts

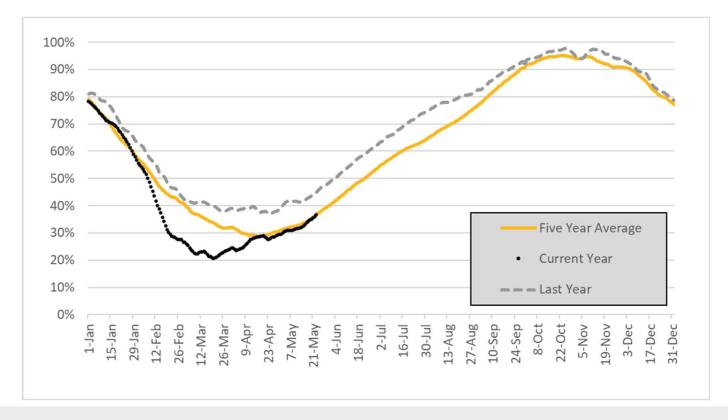




Continued diversity in supply







25% of inventory withdrawn Feb 2-20



Top 10 storage withdrawal days

Rank	Date	Withdrawals (TJ)	Percent Full
1	01/30/19	-6,286	50.7%
2	02/12/21	-5,919	41.7%
3	02/11/21	-5,532	43.6%
4	01/01/18	-5,382	69.2%
5	01/31/19	-5,360	48.9%
6	01/02/18	-5,267	67.5%
7	01/07/15	-5,258	73.5%
8	01/29/19	-5,235	52.7%
9	02/10/21	-5,199	45.4%
10	12/28/17	-5,066	75.6%

Three new entrants in Top 10

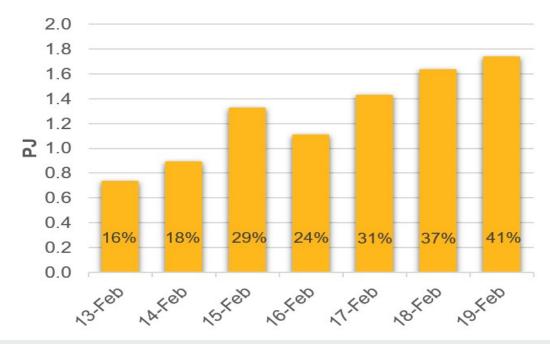
Value of Dawn



Storage

- Traffic light turned to yellow Feb.12.
- Interruptible service scheduling reductions started Feb. 13 and ended Feb. 22.
- Transportation
 - No impact on Dawn to Parkway activity.

Interruptible storage served



9 PJs of interruptible withdrawals during the height of the polar vortex

Regulatory update







Price Cap Framework

- Deferred rebasing period of five years
 - Cost of service rebasing application to be filed for 2024 rates
- Earnings sharing mechanism
- Maintain existing rate structures and rate zones until rebasing
- Annual rate adjustments based on a Price Cap framework
- Incremental Capital Module (ICM) available for funding of major qualifying capital projects

Annual Rate Adjustment Formula

$$= (I - X - S) \pm Y \pm Z + ICM$$

Where rates are a function of:

| = An inflation factor

X = A zero Productivity factor

S = A 0.3% Stretch factor

Y = Certain predetermined pass-through adjustments (gas supply costs, DSM)

Z = Certain non-routine adjustments

ICM = Incremental Capital Module rate riders





- 2021 Rates application was bifurcated into two phases
- Phase 1 updated rates for the price cap mechanism (PCI)
 - implemented January 1, 2021
- Phase 2 updated rates for approved incremental capital module projects (ICM)
 - to be implemented July 1, 2021

	Poto	Direct Purchase Bill Impacts*			Total Bill*
Rate Zone	Rate Class	Phase 1 (PCI)	Phase 2 (ICM)	Total	(incl Gas Costs)
EGD	100	1.1%	-	1.1%	0.8%
	110	0.4%	-	0.4%	0.2%
	115	-0.1%	-	-0.1%	-0.4%
	135	0.6%	-	0.6%	0.3%
	145	22.1%	-	22.1%	11.2%
	170	-0.2%	-	-0.2%	-0.1%
	M4	5.7%	1.4%	7.1%	1.5%
	M5	6.4%	0.0%	6.4%	0.9%
	M7	-1.9%	2.0%	0.1%	0.0%
Union South	M9	3.9%	3.3%	7.2%	1.3%
	T1	0.6%	2.1%	2.7%	0.4%
	T2	0.0%	4.1%	4.1%	0.3%
	T3	1.7%	4.2%	5.9%	0.9%
	20	2.1%	-	2.1%	0.4%
Union North	100	1.5%	-	1.5%	0.1%
	25	1.9%	-	1.9%	0.4%



2019 Deferrals and earnings sharing unit rates

- Approved for disposition with July 2021 bills
- Enbridge Gas did not have earnings sharing in 2019
- Unit rates can be applied to volumes consumed in 2019 to determine the total disposition amount
 - * Gas supply unit rates may also be applicable to Union rate zone customers

Rate Zone	Rate Class	System/ Western-T (cents/m³)	Ontario-T/ Dawn-T (cents/m³)	
	100	0.0250	0.0235	
	110	0.0581	0.0566	
EGD	115	0.0617	0.0602	
	135	0.0616	0.0601	
	145	0.0570	0.0555	
	170	0.0694	0.0679	
		Delivery (cents/m³)		
	M4	(0.0145)		
	M5	(0.2361)		
	M7	0.0038		
Union South*	M9	0.0072		
	T1	(0.0316)		
	T2	(0.0090)		
	T3	(0.0021)		
	20	(0.0437)		
Union North*	100	(0.0210)		
	25	(0.0623)		



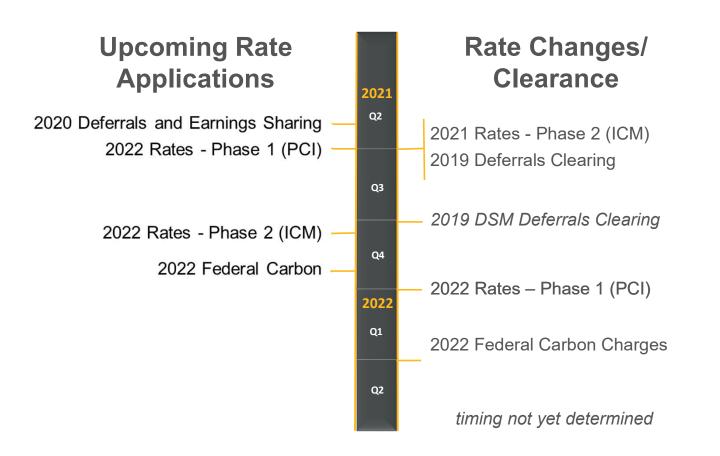


- Application filed March 10, 2021
- Nearing the end of the procedural steps before the OEB issues a decision
- Preliminary unit rates can be applied to volumes consumed in 2019 to estimate the total disposition amount

Rate Zone	Rate Class	Preliminary DSM-Related (cents/m³)
EGD	100	2.4205
	110	(0.0911)
	115	(0.0827)
	135	0.0789
	145	(4.8938)
	170	(0.6557)
	M4	0.2297
	M5	0.2615
	M7	0.3908
Union South	M9	-
	T1	(0.1543)
	T2	(0.0149)
	T3	-
	20	(0.0891)
Union North	100	(0.0398)
	25	-

Regulatory outlook





Other

- QRAM applications filed each quarter for gas cost rates effective Jan 1, April 1, July 1 and Oct 1
- 2020 DSM Deferrals
- 2022-2027 DSM Framework

Service harmonization





Service harmonization

- What is service harmonization?
 - The legacy utilities have different services across all three rate zones
 - As we approach the 2024 rebasing proceeding, EGI is working on a proposal for what the combined suite of services will look like





Service harmonization







- We are at the beginning of the process and are gathering input from our customers
- We invited a representative subset of our contract rate distribution customers and energy marketers to engage in one-on-one conversations
- Opportunity to understand their priorities and preferences
- Using the customer feedback as we develop our initial proposals

What's next?



Working to develop initial proposals for harmonized services

Develop refined proposals in consideration of feedback



Will conduct broader customer engagement

· More details to come



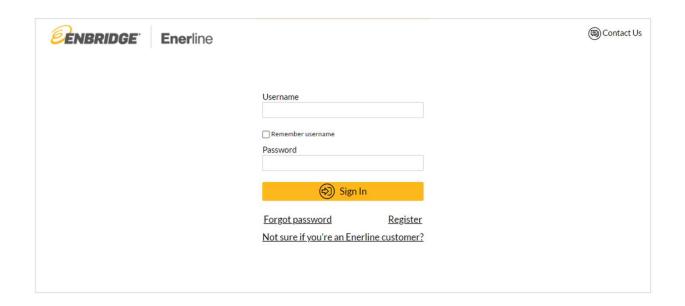
Welcome to Enerline







New name, same experience

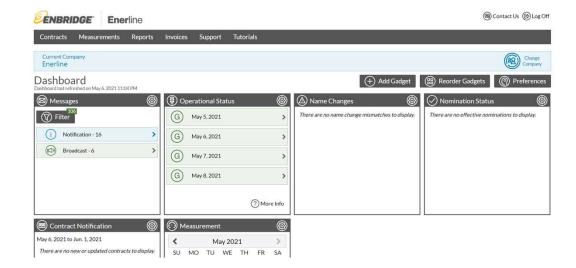


Bringing Unionline into the Enbridge Gas brand family

Enerline

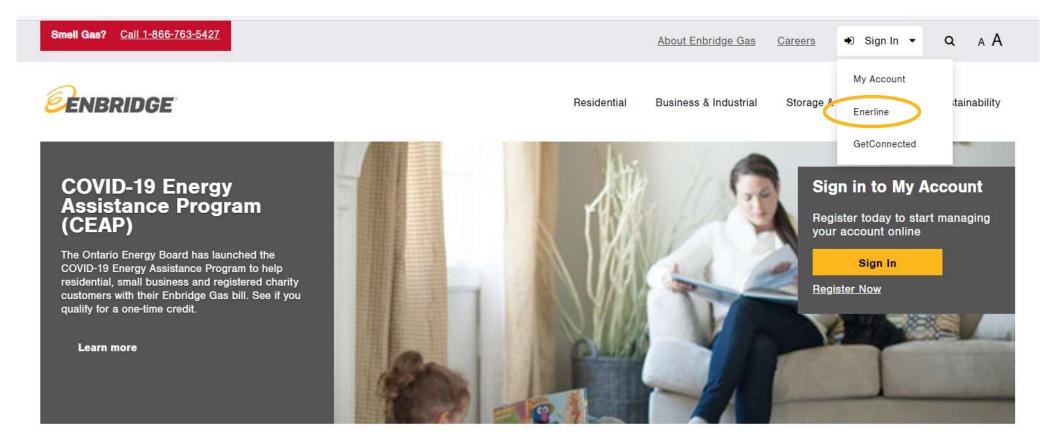


- New look and name
 - New URL: enerline.enbridgegas.com
- New Enerline Support email
 - Enerline@enbridge.com
- All of what our customers love
 - Same navigation and functionality



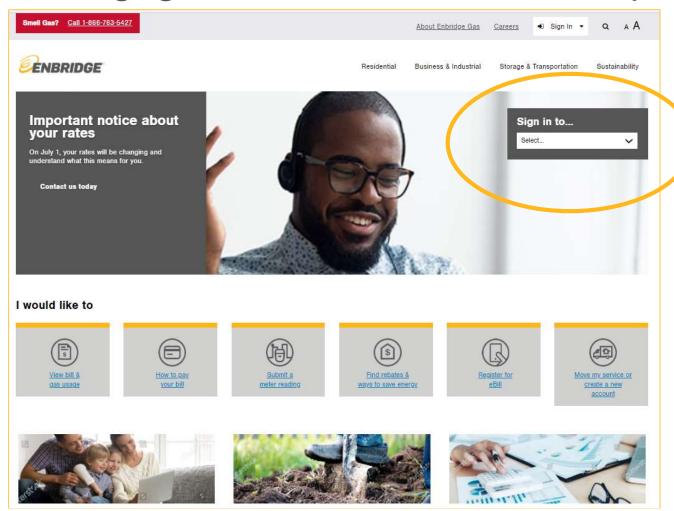
New enbridgegas.com - landing page







New enbridgegas.com – Business home page



Carbon pricing update

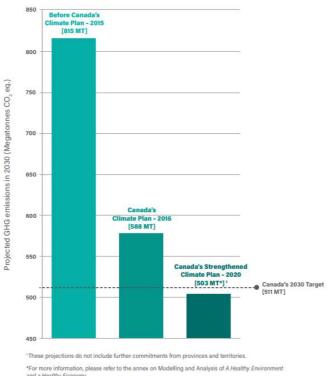


Update on federal climate policy

- Federal government released an updated climate plan in Dec 2020, which builds on the 2016 climate plan
- Includes new GHG reduction targets
 - New target of 40-45% reduction over 2005 by 2030
 - Net zero emissions by 2050
- Included announcements regarding
 - Carbon pricing
 - Clean fuel regulations
 - Border carbon adjustments
 - Funding for GHG reduction activities



EXCEEDING CANADA'S 2030 TARGET



Source: ECCC – "A Healthy Environment and A Healthy Economy - Canada's strengthened climate plan to create jobs and support people, communities and the planet"

Federal carbon pricing



• Federal carbon pricing program is implemented in provinces/territories that do not have their own carbon pricing program in place and has two elements:



Carbon charge on fossil fuels

- Generally payable by fuel producers or distributors
- Carbon charge is currently 7.83¢/m³ on natural gas, based on \$40/tCO₂e
- Eligible greenhouse operators receive 80% relief from the carbon charge



Output-Based Pricing System (OBPS) for large facilities

- Facilities that emit >50 ktCO₂e/yr and undertake an activity with an Output-Based Standard (OBS). Facilities between 10 to 50 ktCO₂e/yr may voluntarily participate.
- Compliance through paying excess emissions charge (\$40/tCO₂e in 2021), buying surplus credits from other participants, or offset credits

Federal carbon pricing update



- Carbon price escalating
 - $-\$10/tCO_2$ e per year until 2022
 - \$15/tCO₂e starting in 2023, reaching\$170/tonne by 2030
- Fuel charge rates post-2022 have not been announced, however Enbridge estimates that a carbon price of \$170/tCO₂e will equal approximately 33 ¢/m³ of natural gas



Output-Based Pricing System updates

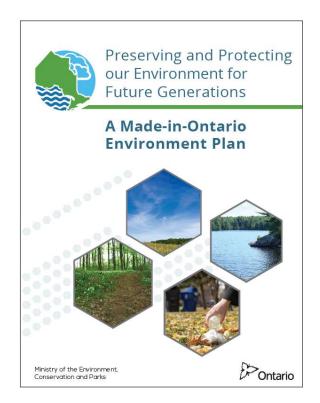


- Environment and Climate Change Canada (ECCC) has begun review of Output-Based Pricing System (OBPS) post-2022, including
 - Exploring options to increase emission reductions from OBPS
 - Adding additional Output-Based Standards (OBS) for 15 activities not currently covered
 - Reviewing the current OBS for specific sectors
 - Exploring opportunities to reduce administrative burden
- ECCC plans to engage on these topics in winter 2021, final post-2022 regulations to come into force in 2023
- Federal offset regulation anticipated in late 2021
- Call for proposals to access funds collected through OBPS anticipated in fall 2021/winter 2022

Ontario Emissions Performance Standards



- Ontario Ministry of Environment, Conservation and Parks (MECP) is implementing an industrial Emission Performance Standards (EPS) to replace OBPS starting Jan 1, 2022
- Similar to the OBPS:
 - The EPS regulates GHG emissions from large industrial facilities by setting an emissions standard facilities must meet each year
 - A facility will be responsible for paying to cover the portion of its emissions that exceed the standard
- Sectoral coverage same as OBPS
- Anticipate that most entities covered under EPS will have a lower compliance obligation than under OBPS



Ontario Emissions Performance Standards



- On May 27th, MECP released draft EPS amendments that propose additional measures to support the transition from OBPS to EPS (ERO # 019-3719)
- Proposed changes to 2 regulations:
 - O.Reg 241/19 Greenhouse Gas Emissions Performance Standards
 - O.Reg 390/18 Greenhouse Gas Emissions: Quantification, Reporting & Verification
- Proposed amendments:
 - Clarify certain compliance and reporting requirements
 - Support the administration and enforcement of EPS program
 - Reduce administrative burden
- MECP accepting comments until Jul 11, 2021
- Enbridge is working with the MECP to understand the transition process and will provide further details once available





- Clean Fuel Regulation (CFR) is a market driven regulation aimed at lowering the carbon intensity (CI) of liquid fuels over time through:
 - Lowering emissions in the production, transportation and distribution of fuels
 - Incorporating lower carbon fuels
 - Switching to alternative transportation fuels (CNG, electric vehicles)
- Updated federal climate plan in Dec 2020 removed gaseous and solid fuels from the CFR, which now focuses only on liquid fuels in the transportation sector
- Credit generation can begin when final regulation is published, anticipated Dec 2021 and reduction requirements come in 1 year later

Energy transition



Bringing lower-carbon solutions to scale



It begins with leadership from the top



"I believe Enbridge is uniquely positioned to help bring new lower-carbon solutions to scale in both Canada and the U.S. while continuing to meet the demand for safe, reliable and affordable energy."

Al Monaco, CEO Enbridge Inc.

Enbridge's CSR & Sustainability Report, 2018 Update

Enbridge Gas – Part of a lower carbon future



Less gas



- Hybrid heating dual fuel space heating
- Natural Gas heat pumps
- District Energy Systems
- Energy Conservation Programs

Replacement



 Replacing oil, propane and wood for home and water heating

Carbon neutral gas



- Hydrogen: Power to Gas
- Renewable Natural Gas



Eliminate GHG emissions from our business on a net basis (net zero) by 2050



Reduce the intensity of GHG emissions from our operations 35% by 2030

Solutions other than gas



- Geothermal Heat Pumps for heating and cooling
- MicroGeneration: Low grade heat waste recovery
- Carbon capture utilization and storage
- Battery storage

A leader in renewable energy

Focus: energy efficiency



Low carbon technology alternatives - GHP / HH



Heat pump: HVAC equipment that extracts heat from a heat source (e.g., outdoor air, ground) and delivers it to a heat sink (space heating and/or domestic water heating)

 In a GHP, the electric compressor is replaced with either a natural gas engine driven or thermal compressor that uses the heat produced by natural gas

Product commercialization status: Commercial sector ready now; product for residential sector anticipated in 2023

Key benefits:

- An alternative to electrification that can be used for both space and domestic hot water heating with efficiencies greater than 100%
- 20% 40% reduction in GHG emissions and energy costs as compared to a furnace







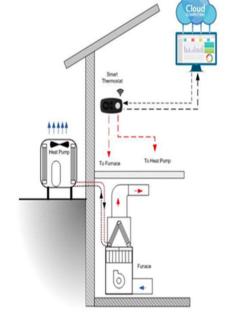
Hybrid heating: System that has multiple heating devices using different fuel sources. The system uses the most efficient equipment at the time of use based on utility prices, grid emissions and individual equipment performance

 Can combine gas furnace or combo-system with an electric heat pump (vs. Air Conditioner)

System commercialization status: Ready now

Key benefits:

- Reduced energy costs while maintaining customer choice and ensuring resiliency with ability to achieve efficiencies greater than 100%
- 20 50%* reduction in GHG emissions when switching from a purely fossil-fuelburning system



^{*}Depends on the fuel switching optimization goals which could be cost or GHG saving.

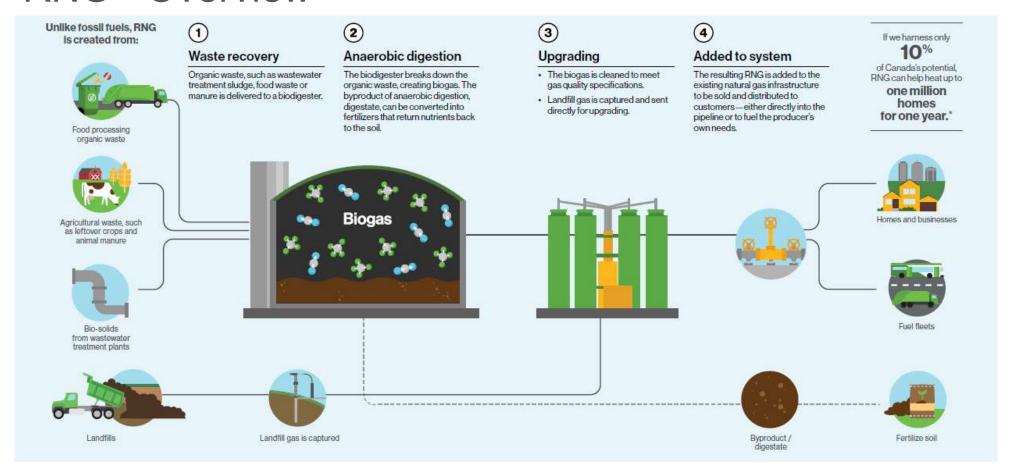
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Focus: renewable natural gas



RNG - Overview





Canadian RNG market potential



>7 PJ/y
6.5 Bcf

Future Potential*
~1300 PJ/y
1200 Bcf

- Policy drivers:
 - Ontario's 2020 Food and Waste Policy
 - Federal Carbon Charge
 - Federal Clean Fuels Standard



Ontario & Quebec have about 40% of the Canadian RNG opportunity

Enbridge Gas regulatory enablement



RNG Enabling Program

- EB-2017-0319
- Utility RNG investment approval

Voluntary RNG Program

- EB-2020-0066
- Customer voluntary RNG supply
- Opt-Up



Understanding the regulated environment at all levels

Success stories











Toronto AD 315k GJ Niagara Landfill 800k GJ London AD 120k GJ Hamilton WWTP 100k GJ

Valued partnerships

A leader in renewable energy

Focus: renewable hydrogen



Types of hydrogen

Brown — Grey — Blue — Green





Brown hydrogen	Hydrogen made from coal gasification
Grey hydrogen	Hydrogen produced from natural gas using Steam Methane Reforming (SMR)
Blue hydrogen	This is Grey Hydrogen with Carbon, Capture and Sequestration (CCS)
Green hydrogen	This is hydrogen produced from electrolysis using clean electrical energy such as wind solar or the Ontario electricity grid and other green sources

Fact: For every one tonne of hydrogen produced by the SMR process, approximately 12 tonnes of ${\rm CO_2}$ is produced

Source photo: Enbridge & Cummins

About hydrogen





- Odourless and nontoxic, very light (14 times lighter than air), nonpoisonous, most abundant element
- Highest energy content of common fuels by weight, nearly three times that of gasoline
- Conversely, lowest energy content by volume (about four times less than gasoline)
- Like electricity, hydrogen is an "energy carrier"
- Can be converted to electricity by a fuel cell, unlike batteries, fuel cells operate continuously in the presence of hydrogen and oxygen (in ambient air) with no state of charge concerns
- Like gasoline or natural gas, hydrogen is a fuel that must be handled properly. It can be used as safely as other common fuels when simple guidelines are followed

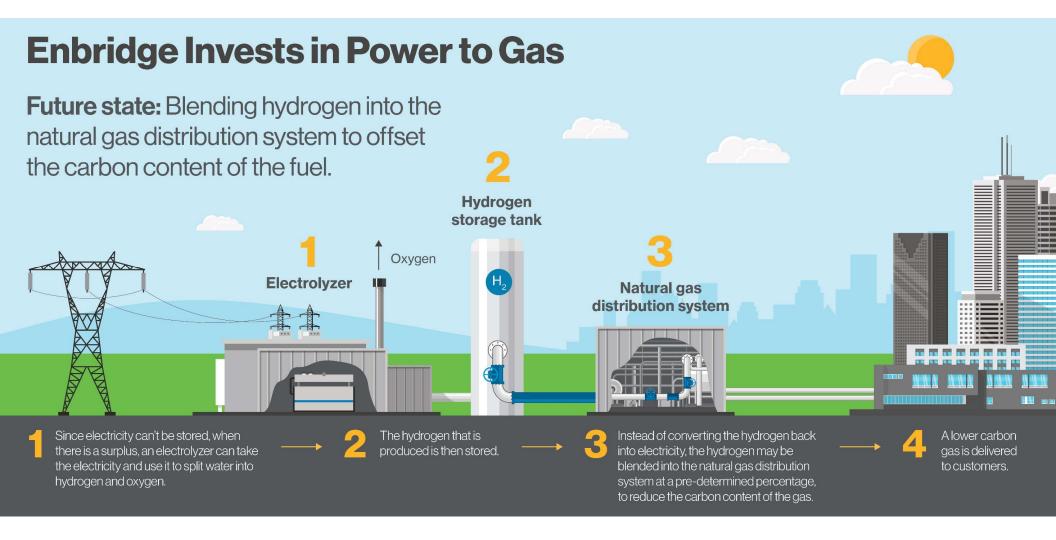
Hydrogen: use



- Ancillary services controllable variable load rapid response frequency regulation up/down
- Enabler of dispatchable power (e.g., wind, solar)
- Fuel for zero emission vehicles (cars, buses, trains)
- Building heating and other industrial applications
- High quality and temperature heating
- Greening the gas grid by lowering carbon content

Grid storage: a new energy inter-tie between wires and pipes





Future use of hydrogen at Enbridge Gas



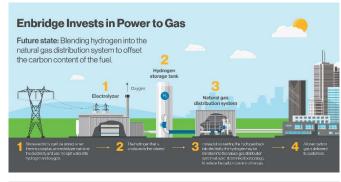
We can:

- Inject into the natural gas grid for large scale storage
- Enable dispatchable power (e.g., wind, solar)
- Convert to electricity for grid stabilization (Regulation Services)
- Use it for zero emission transportation (cars, buses, trains)
- Green the gas grid and lowering GHG emission
- Feedstock (ammonia, fertilizer, methanol)
- 2021-Toyota Mirai, 850 km range 5 minute refueling











global.toyota/pages/news/images/2020/12/09/1200/20201209 01 02 en.pdf#page=27

Sources: Hyundai, Nikola, Toyota, Kenworth, Shell, Port of La, Enbridge

Q & A



Closing remarks

