METRO RENEWABLE GAS

WASTE TO CLEAN ENERGY


Conceptual rendering

Turning residual waste into a local energy resource through Indigenous partnerships, material recovery and renewable natural gas production.

ABOUT METRO RENEWABLE GAS

Metro Renewable Gas Inc. (MRG) is advancing the **conversion of residual waste into renewable natural gas (RNG)**. Headquartered in Richmond, B.C., MRG is developing modular facilities that use gasification and methanation technology to produce RNG from suitable residual biogenic materials, including refuse-derived fuel (RDF), construction and demolition (C&D) biomass, and Class A biosolids.

PROJECT OVERVIEW

MRG's Lower Mainland project is under development with a potential site on or near the Vancouver Landfill in Delta. The facility is designed to process approximately 600 tonnes of waste daily and produce **5,800 GJ/day of pipeline-quality RNG.** A materials recovery facility would separate recoverable materials and unsuitable components before conversion.

HOW DOES THE PROCESS WORK?

Suitable residual waste is sorted and prepared in a materials recovery facility. **Gasification** converts prepared material into synthesis gas. After gas cleaning, **methanation** produces methane. Final purification prepares the RNG for supply.

REGIONAL ALIGNMENT

MRG **complements regional waste management systems** by recovering value from residual biogenic materials after reuse, recycling and diversion. Its approach fits established governance, procurement and regulatory frameworks without replacing or competing with existing programs.

WHAT IS RNG?

Renewable natural gas (RNG) is made from waste. Once purified to required standards, it can replace conventional natural gas in existing pipelines and compatible equipment. MRG would convert suitable residual waste into locally produced RNG, supplying industrial and transportation markets, including marine.

INDIGENOUS PARTNERSHIPS

Indigenous partnerships are central to MRG's approach. Its projects are built on **a true 50/50 co-ownership model** designed to create long-term shared value through employment, local procurement and investment in B.C.

ENVIRONMENTAL IMPACT

MRG's project is designed to reduce landfill disposal, recover valuable materials and produce renewable natural gas locally, with **estimated avoided emissions of 290,000 tonnes of CO_2e annually.** This approach advances environmental stewardship and supports B.C.'s circular economy and decarbonization goals.

EXPLORING BROADER OPPORTUNITIES

MRG is exploring smaller-footprint facilities in **Nanaimo and Victoria,** subject to suitable feedstock, infrastructure and viable RNG markets. Nanaimo's LNG bunkering activity supports exploring RNG's marine potential. Opportunities in Victoria require further assessment.

METRO RENEWABLE GAS

RECOVERING VALUE PRODUCING RNG



Local Resource Recovery. Renewable Energy. Shared Value.

WHAT PROBLEM ARE WE SOLVING?

Suitable residual materials still reach landfill after recycling and diversion. MRG would recover additional materials and convert the remaining suitable biogenic fraction into renewable natural gas.



SUPPORTING LOWER-CARBON MARINE FUELS

LNG is already helping ships cut emissions on the West Coast. MRG's planned RNG could be liquefied into renewable Bio-LNG, adding a locally produced renewable fuel to B.C.'s marine fuel supply chain and supporting efforts to reduce lifecycle greenhouse gas emissions from marine transportation.



600
tonnes/day
Planned waste processing
About 60 truckloads of waste per day.

5,800
GJ/day
Planned RNG Production
Enough renewable natural gas for about 20,000 B.C. homes a year.

290,000
tonnes CO_2e/year
Estimated avoided emissions
Equivalent to the annual emissions of 60,000+ cars.

Project design figures and emissions estimates; subject to further technical assessment.

FROM RESIDUAL WASTE TO RNG

Enclosed Conversion. No Incineration. No Stacks.



Material Recovery

Residual materials are sorted and prepared in a materials recovery facility.



Gasification & Methanation

Prepared material is converted into synthesis gas and then methane through gasification and methanation.



RNG Supply

Final purification prepares the renewable natural gas for supply to existing gas infrastructure.

50/50
INDIGENOUS PARTNERSHIPS



A true 50/50 co-ownership model where Indigenous partners are equal owners, creating long-term shared value through employment, local procurement and community investment.

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