Renewable Gas 360 New Opportunities to Convert Biomass "Waste" to Renewable Methane and Green Hydrogen

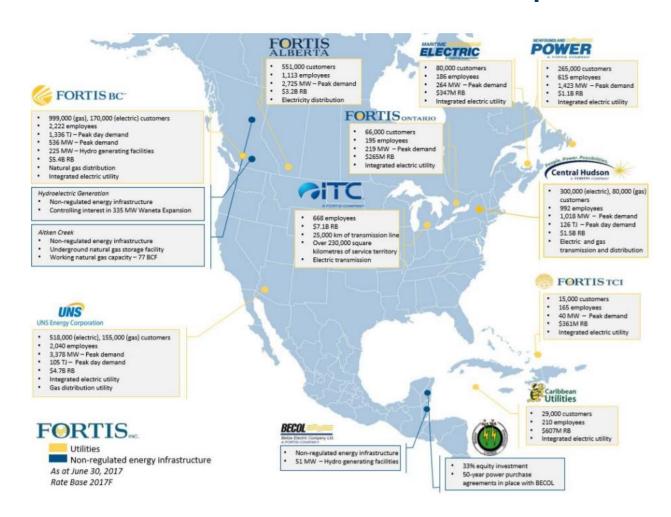
A Utility Perspective

David A. Bennett

Director, Renewable Gas and Low Carbon Fuels

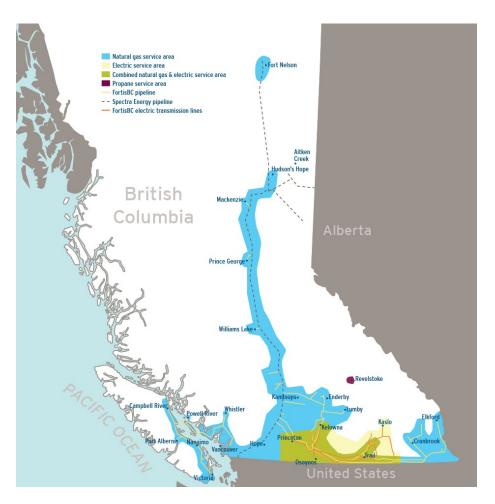


Fortis Inc. - North American Operations

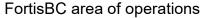




About FortisBC



- Serving 1.2 million customers in 135 communities
- Investing over \$590 million annually in B.C.'s energy assets
 - 50,000 km of pipelines
 - · 7,200 km of electric lines
 - 2 LNG facilities
 - 4 hydroelectric generating plants
 - · Underground gas storage
- Delivering 21% of B.C.'s energy needs
 - Electricity
 - · Natural gas
 - Renewable natural gas (enabled under BC Greenhouse Gas reduction Regulation (GGRR)
 - · Compressed & liquefied natural gas
 - · Alternative energy solutions
- 2020 Nat. Gas Res./Comm./Ind./Trans: 200 PJ/yr





FortisBC's Clean Growth Pathway to 2050

Diversified approach to reduce GHGs and support climate action goals

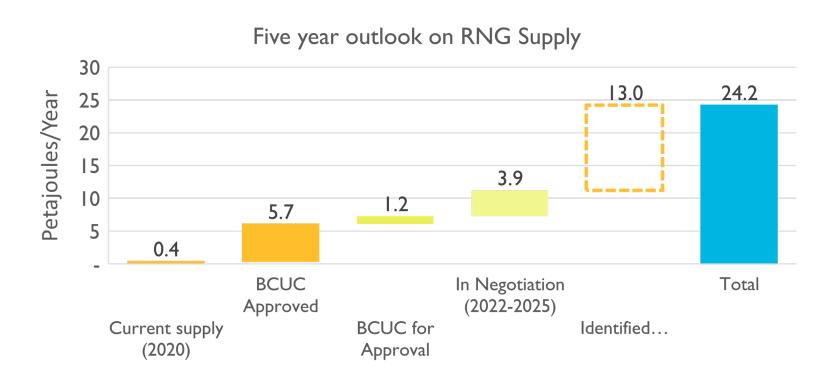








Renewable gas short-term supply outlook



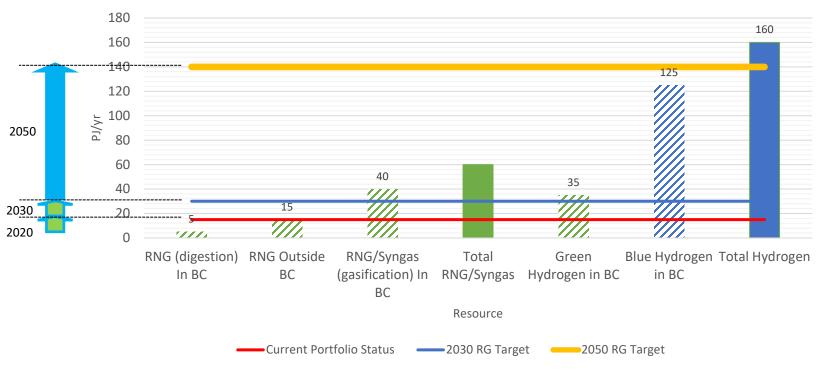


Hydrogen H_2

Supply Potential Vs RG Targets

Taking into account certain realities, such as potential feedstock unavailability, less than 100% capacity production at plants, or technology underperforms

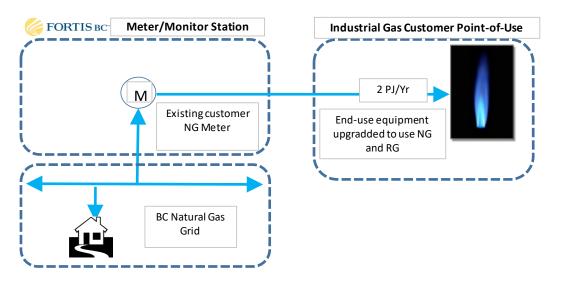
Renewable/Low-Carbon Gas Portfolio (P50 Resource Recovery)



1. Hallbar report: B.C. Hydro's forestry feedstock estimation; RNG production potential is estimated to be 51.3 PJ/year. If NRCan's forestry feedstock estimations are used, RNG production potential is estimated to be 93.6 PJ/year. 2 RNG (organics) In BC max supply potential no tech advancement Hallbar Consulting Report, 3. Syngas (wood) max supply potential with technology advancement Hallbar report, 4 Hydrogen supply potential from BC Hydrogen Study



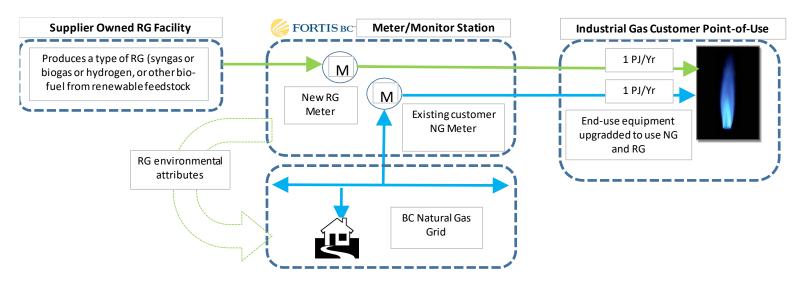
Current Industrial Natural Gas Supply



- Industrial customer owns and operates the equipment, e.g. kilns, boilers etc., to use NG.
- Utility owns and operates the facility to meter and monitor NG energy delivered from the BC gas grid to the industrial customer for accounting/billing.



Enabling RG through NG Displacement



- Supplier (developer or industrial customer) owns and operates the facility to produce RG.
- Industrial customer owns and operates the equipment, e.g. kilns, boilers etc., to use RG and displace NG at the point-of-use.
- Utility owns and operates the facility to meter and monitor the NG and RG delivered (including NG energy displaced) between the contracted parties for custody transfer and billing purposes.





Questions?

