

Case Study: RNG at Columbia Blvd WWTP

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Game Plan

- History Lesson
- New Opportunity – City of Portland
- Events from Proposal to Signed Agreement
- Producer and NWN Concerns
- Nearing the Finish Line and Beyond

If at first you don't succeed...

Learning Opportunity

- Landfill biogas injected in the 1980s
- Conditioning equipment inadequate
- Project terminated

Renewed Interest

- Private developer in 2012
- Interconnect Agreement and Gas Quality Standard created
- Project was canceled by Developer



A New Hope

City of Portland – Columbia Blvd Wastewater Treatment Plant

- Ideal Location for Injection
- Advanced Conditioning and Clean-up Equipment
- Increased Industry Knowledge and Experience
- Beneficial Partnership
- Low Carbon Pathway

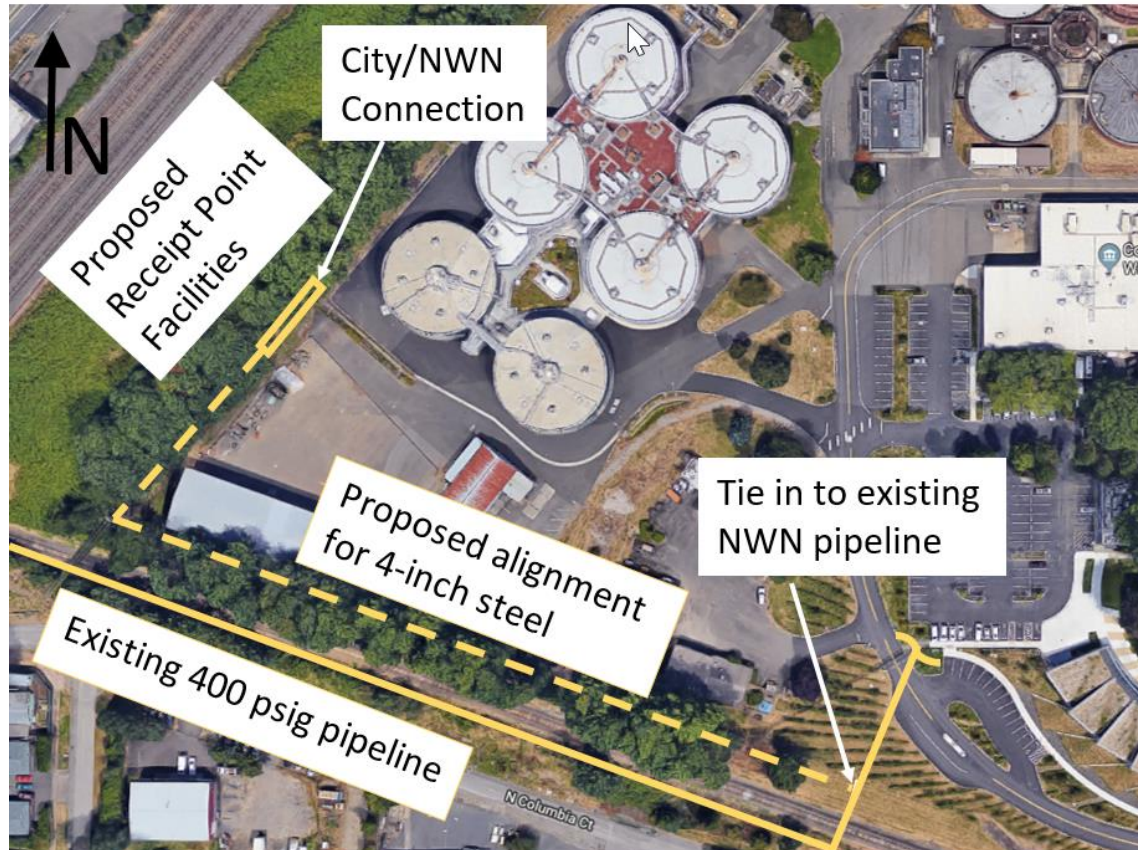


Cutting greenhouse gas emissions by 21,000 tons annually



Replacing 1.34 million gallons of dirty diesel fuel

View From the Top



A Series of Fortunate Events

2015-2018

- Edited and updated the Interconnect Agreement and Biomethane Quality Spec
- Designed and constructed a CNG fueling station at the wastewater treatment plant
- Senate Bill 334
- Integrated Resource Plan – Low Carbon Pathway
- Interconnect Agreement Signed by City of Portland and NWN

Threat Level Midnight

City Concerns

- Testing Protocols
- Quality Specification

NWN Concerns

- Quality
- Communication System Reliability

Concerns of Both

- Location of Receipt Point Facilities
- Shutdown and Restart Procedures



Going the Distance

- Interconnect and Station are under construction
- Commissioning and Injection – November
- Lessons Learned applied to future agreements
- Signed Agreements for two additional RNG Interconnect Projects
- Senate Bill 98



Questions/Discussion

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