

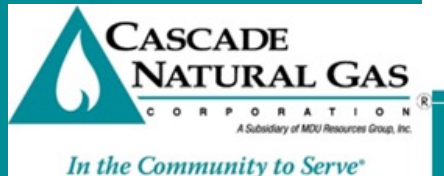
# Cascade Natural Gas Renewable Gas Programs

KENT CROUSE

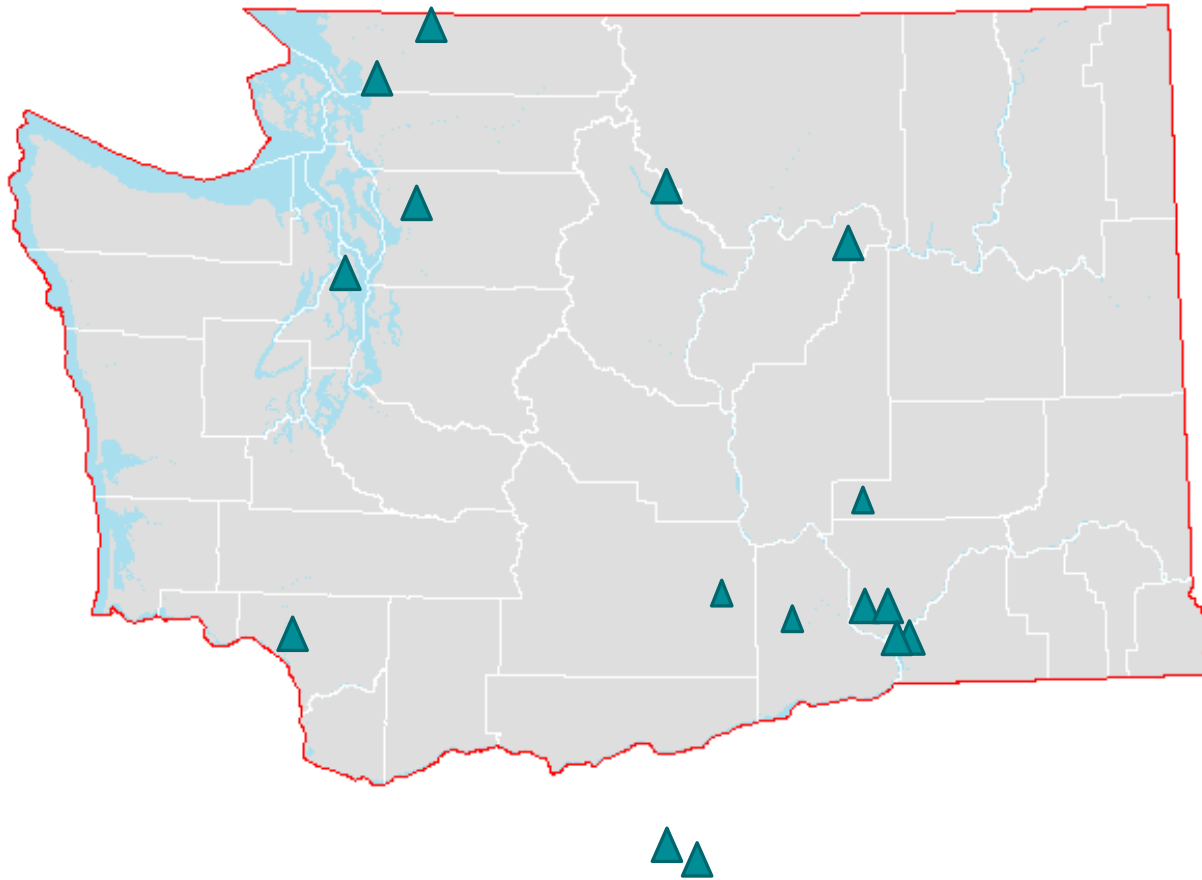
INDUSTRIAL SERVICES MGR. – RENEWABLE NATURAL GAS & H<sub>2</sub>

# Behind the Curve on RNG Development.....

- RNG business was historically a part-time side of Industrial Services
- 4/22 Initiated shift to full-time RNG focus
- WA Climate Commitment Act /OR Climate Protection Plan



# Overview – RNG Development 11.22



Projects currently in development:

- Washington – 14
- Oregon - 2

# Overview – RNG Under Contract



Divert, Inc. – Longview, WA

City of Richland – Horn Rapids Landfill

Lamb Weston – Richland, WA

★ Deschutes County – Knott Landfill  
Bend, OR

# How Can Cascade Help with Your RNG?

## Option 1 – Purchase

- Cascade may **purchase** your RNG output with Environmental Attributes (D5, Landfill)
- Build an interconnect facility to validate, odorize, & measure your biogas output
- Build a pipeline to interconnect to our distribution system\*
- Long Term Agreements

## Use of RNG

- WA/OR RNG Tariffs for system customers
- Compliance with WA CCA/OR CPP
- Benefits stay with WA/OR Gas Customers
- May be able to significantly reduce customer's cost of interconnection

# How Can Cascade Help with Your RNG?

## Option 2 - Transport

- Cascade will **transport** your RNG output without Environmental Attributes (D3, D5, Landfill)
- Build an interconnect facility to validate, odorize, & measure your biogas output
- Build a pipeline to interconnect to our distribution system

## Use of RNG, Costs

- Customer choice, Generally bound for LCFS markets
- Customer generally responsible for nearly all system facilities cost
- Minimal negotiation

RNG Proximity to Cascade's System?

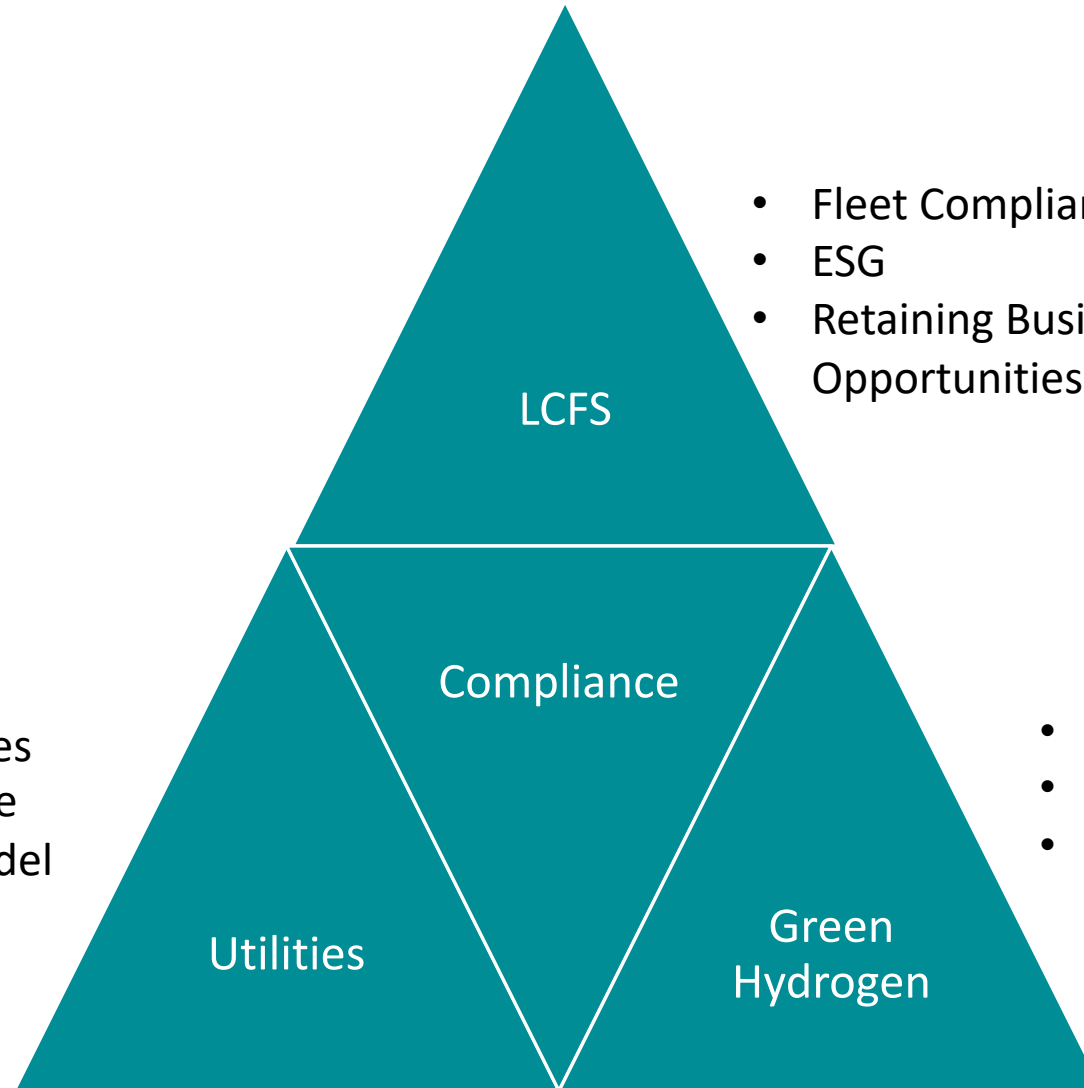
Capacity of System for injection?

Flexibility from 100% receipt?

Are you collaborative?

Is Cascade a  
Fit Your  
RNG???

# Competing Nature of RNG



- Fleet Compliance
- ESG
- Retaining Business Opportunities

- Customer Fuel Choices
- Customer Compliance
- Shifting Business Model

- H2 Equipment Manufacturers
- Fleet Compliance
- H2 Hub Development



# On the Upside

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We are still naïve, but growing in experience and learning in this market every day.

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Customers will have greater and greater choices for bio-waste!

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We have GREAT customers, and we're all seeking solutions in these new challenges.  
*What better fuel for successful collaboration!*

# Thank You!

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