Sagepoint Energy

Renewable Natural Gas (RNG) – New Developments & Opportunities for Industrial Energy

May 2025

CIBO Meeting

Kingsport, TN

Agenda

1. Sagepoint Overview
2. Why/How RNG
3. How is it Produced
4. How Can You Use It?

Sagepoint Energy - Why, Mission, Cores Values

OUR WHY:

We support communities by limiting their waste and emissions. We do this by hiring the most dependable, experienced team in renewable energy, that inspires trust and sets a high industry standard. Join us in shaping a sustainable future where experience meets expectations.

OUR MISSION:

Our mission is to build trusted partnerships that help transform community waste into energy and other beneficial products. With a dedicated and experienced team, we focus on safety, efficiency, and environmental stewardship to drive the circular economy forward.

OUR CORE VALUES:

Dependability

- We strive every day to be worthy of trust from others

Excellence

- We pursue high standards and continuous improvement both in our work and our people

Integrity

- We encompass honesty, transparency, and ethical behavior in all aspects of our business

Sagepoint History

Sagepoint Energy has accelerated its pipeline by building upon its long history of project design, implementation and operational experience, along with carefully cultivated strategic partnerships with feedstock suppliers, offtakers, and partners across the supply chain

2011

Founded as a full-service company providing leading waste recovery solutions to the Agricultural and Food Processing industries

2017

Provided design and operational services to more than 60 projects nationwide

2020

Entered financial and offtake partnership with bp and Clean Energy

2021

Achieved financial close on BC Organics, the nation's largest AD project of its kind with leading financial partners

2022

Construction and operation of six existing projects with a combined build cost of $290MM

2023

Dynamic Renewables received strategic investment from Ares Management

Executive hire of CEO, Aaron Johnson

2024

Executive hires including CFO, VP Business Development, VP Administration, and VP of Landfill Operations

Established internal logistics company in WI to transport organic waste

Acquired Plumb Thicket RNG landfill-to-gas asset

2025

Dynamic Renewables, BC Organics, and National Organics combine to form Sagepoint Energy

Sagepoint acquires landfill-to-gas assets, Lawrence RNG and Peoples RNG

Sagepoint at a Glance

Sagepoint Energy

- Proven executive team track record
- ~80-person team
- Strong development and offtake partners
- Significant growth pipeline
- Dependable, experienced operations teams

4 Plants/Projects
In Operation

Transportation
Integrated Logistics Operations

8,400,000 MT
CO2e Emission Reductions per Year for 4 Current Projects

20+ Projects
In Development Pipeline

Operational Excellence
Dairy & Landfill RNG Operations

250+ Years
Collective Project Development & Operational Experience

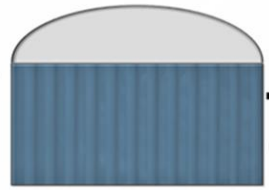
Why/How RNG?

THE PROCESS

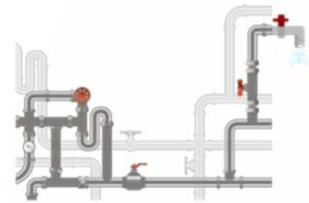
Farm's manure is trucked or piped to facility

Biogas

Renewable Natural Gas (RNG)



Manure is pumped into the digesters



Effluent De-watering

Solids

Potting soil

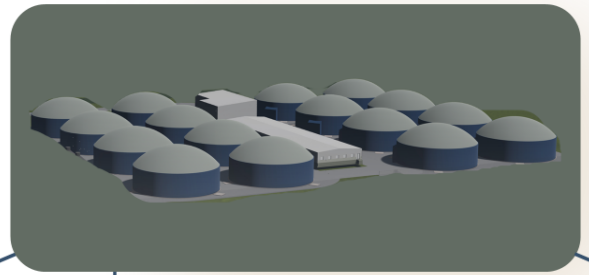
Bedding

Organic fertilizer

Water

Liquids

Project Benefits



Odor reduction

Displacing diesel fuel with renewable natural gas

Reduced methane emissions to the atmosphere

Reduce manure volumes back to farms by about 50%

Rural Job Creation

- Less manure to store and spread
- Less truck traffic on local roads
- Less compaction to fields
- Can apply smaller volumes during the growing season
- Can use the water produced by the plant for irrigation water reducing groundwater usage
- Less phosphorus into the lower Fox River Watershed and Lake Michigan
  - Reduce algae growth in late summer

BC Organics – Summary Overview

16 digestion tanks processing manure from over 30,000 cows

BC Organics Site

Project Overview

Project Type

Dairy RNG

COD Year

2022

Location

Greenleaf, WI

Gas Production

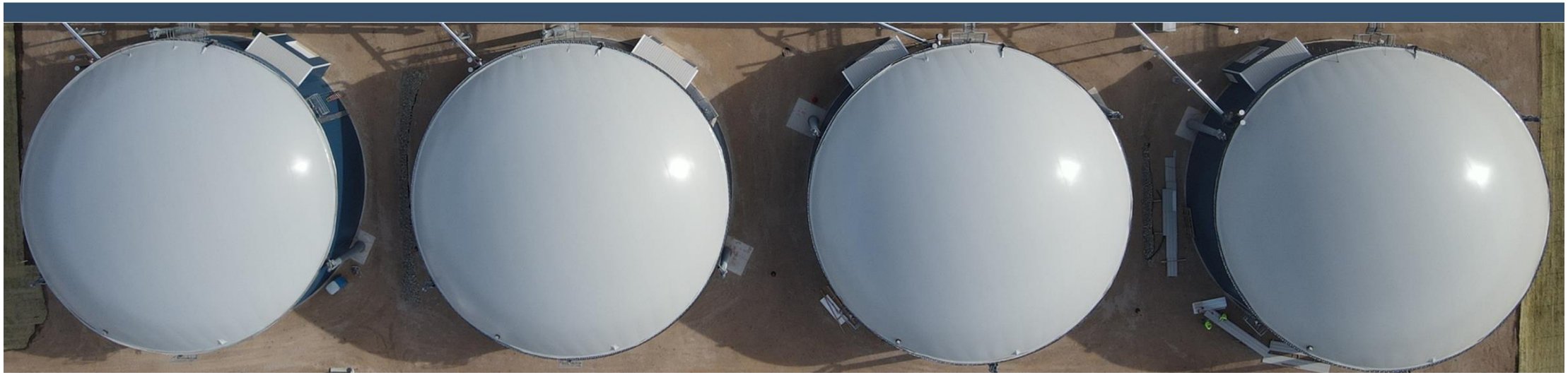
657k MMBtu/year

CI Score

-150

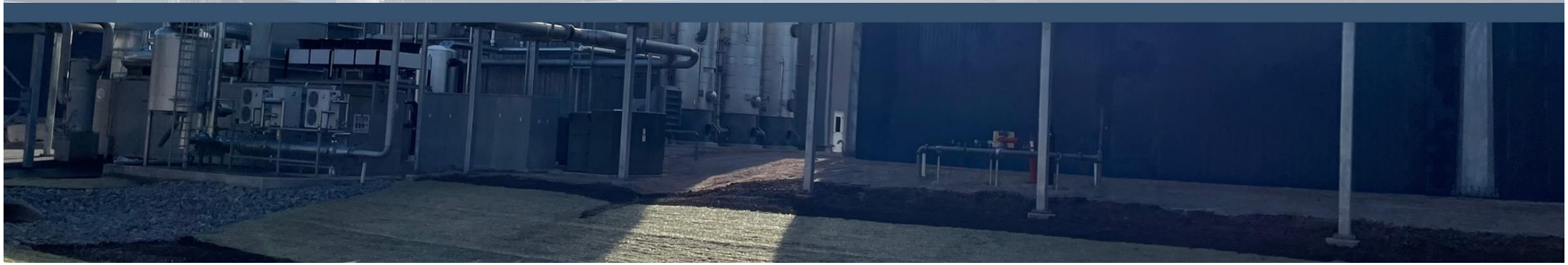
Digesters

- (16) Complete mix digesters operated in parallel
- 1.3 million gallons each
- Bolted stainless steel tank
- Dual membrane roof
- Tanks are insulated and clad
- 20-25 day hydraulic retention time
- (5) heat tubes to provide heat transfer to maintain digester temperature

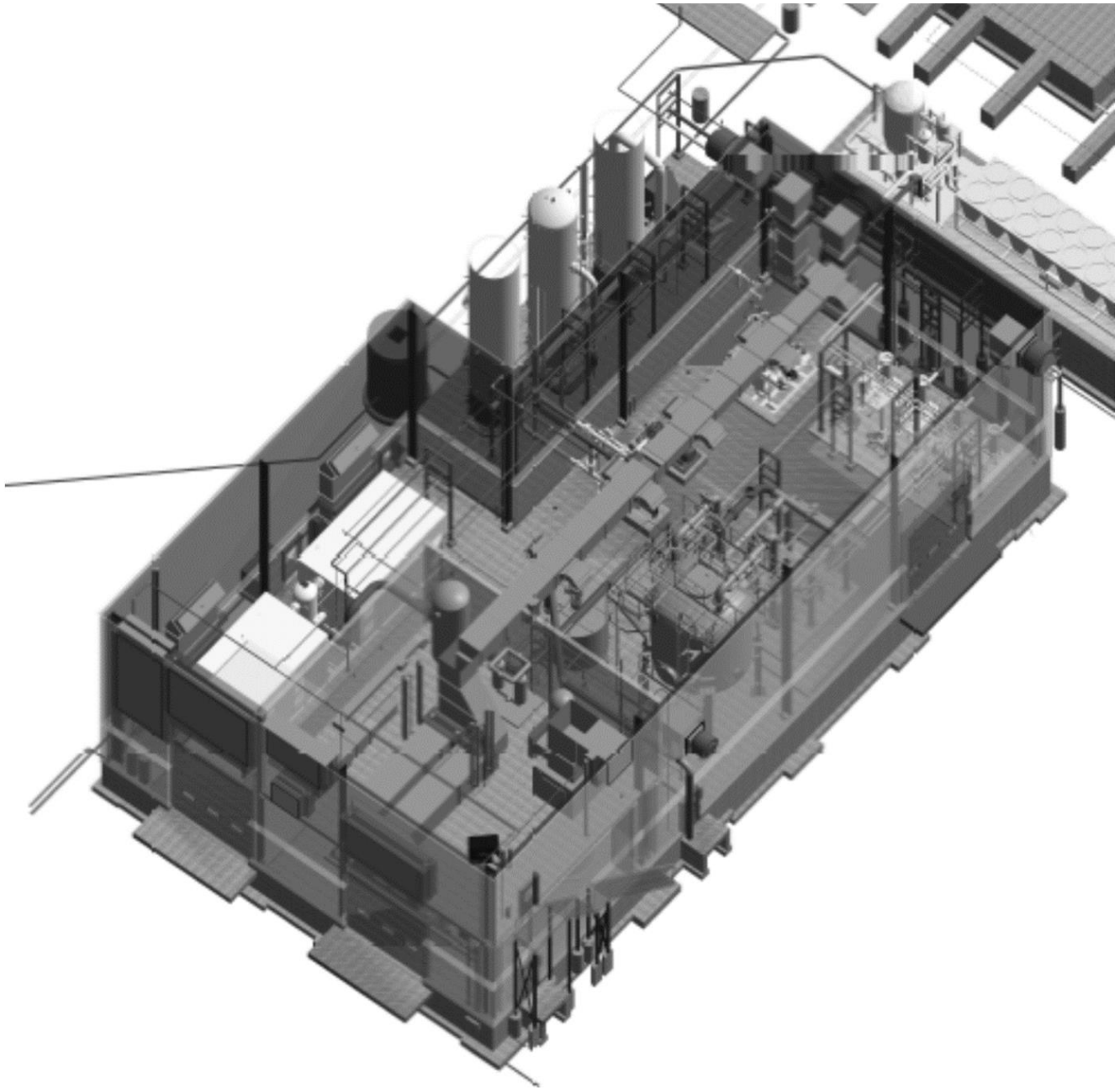


Biogas Upgrading

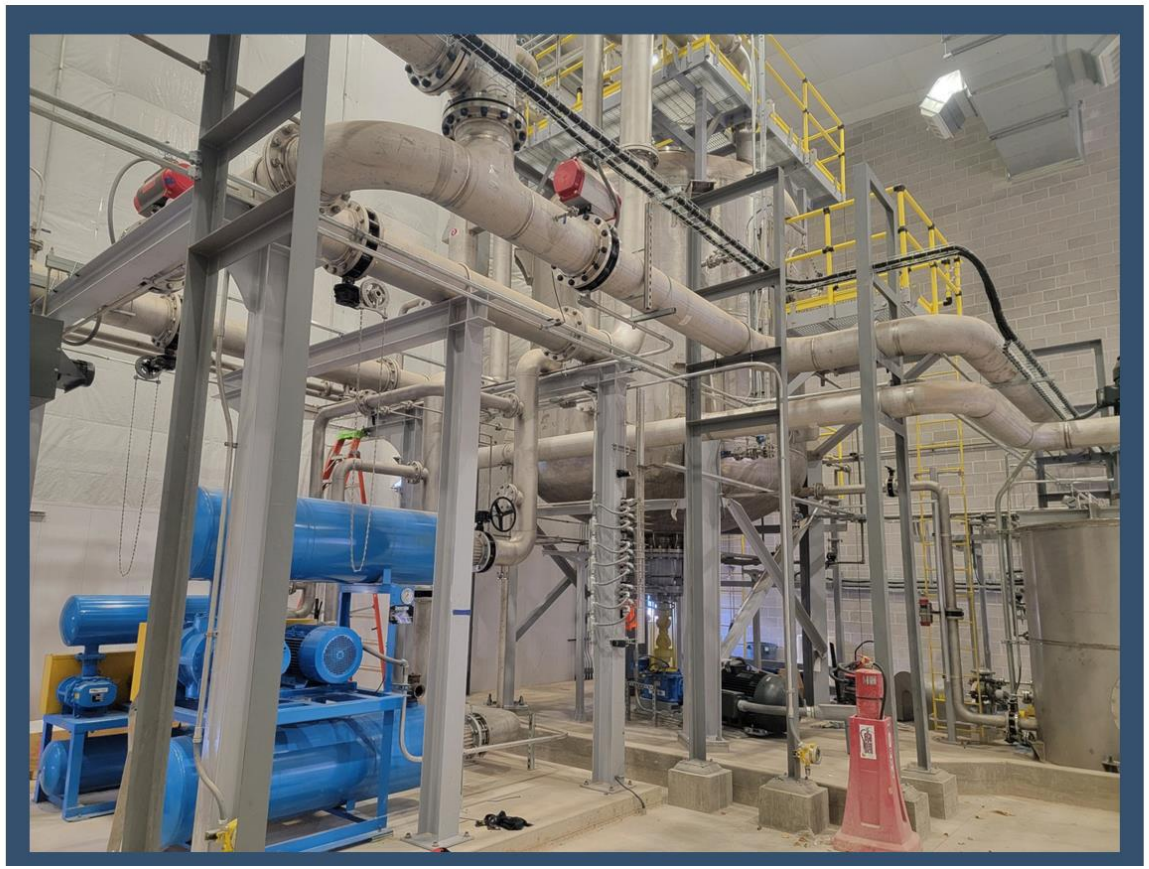
- Biogas is primarily methane with carbon dioxide, hydrogen sulfide, and water vapor
  - Need to remove carbon dioxide, hydrogen sulfide, and water vapor to be pipeline quality natural gas
  - 99% methane
- Regenerative chemical separation system for hydrogen sulfide removal
- Water scrubbing system using absorption principle for separation of methane and carbon dioxide
- Desiccant dryer to removal water vapor
- Flare to combust biogas when system is down
  - Flare can also combust off spec gas
- Renewable Natural Gas (RNG) sent about 1 mile down the road and injected into the natural gas pipeline



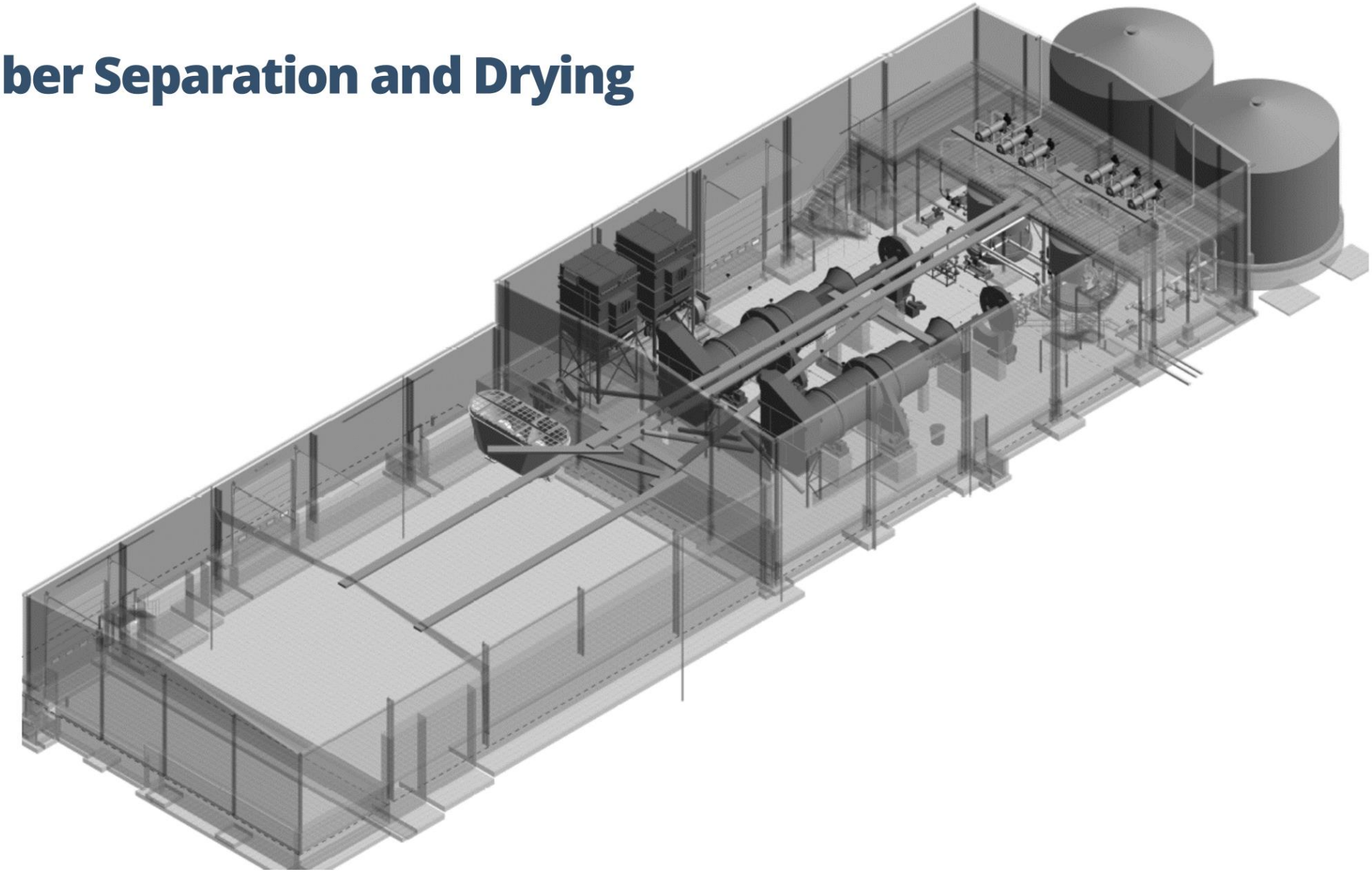
Biogas Upgrading



Biogas Upgrading



Fiber Separation and Drying



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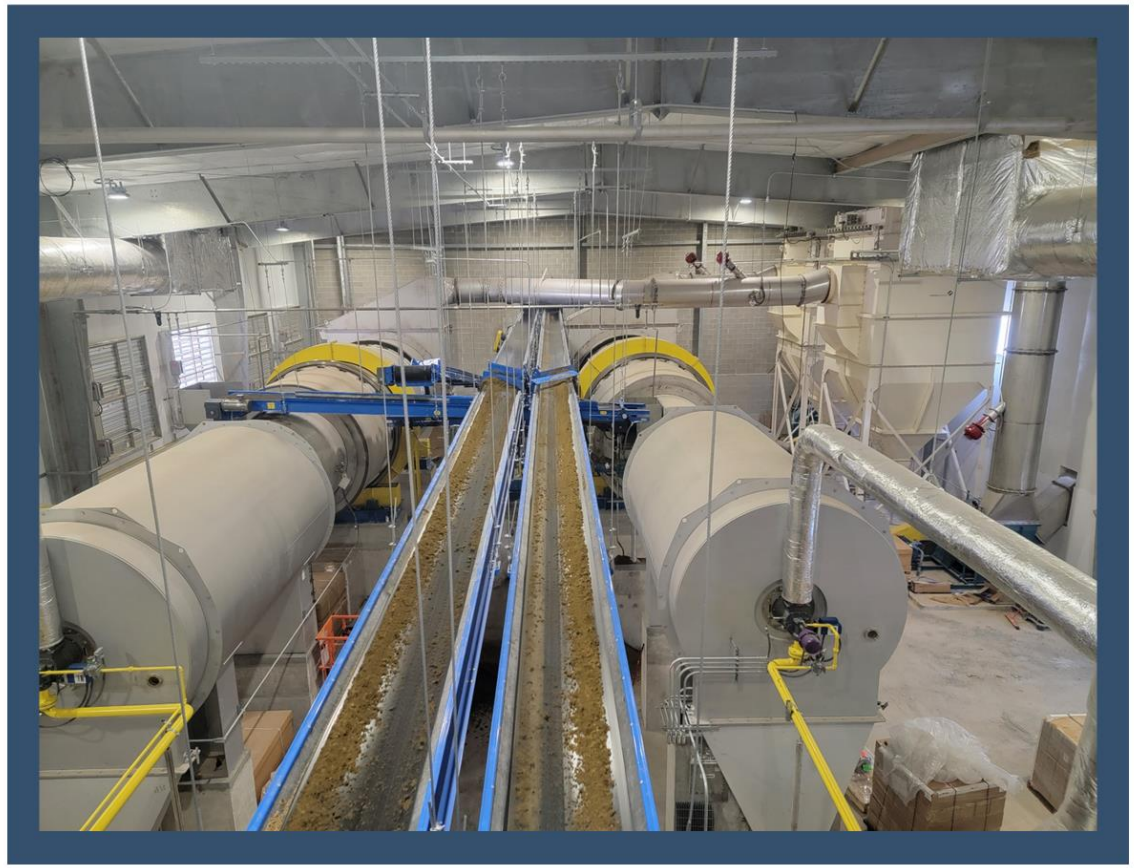
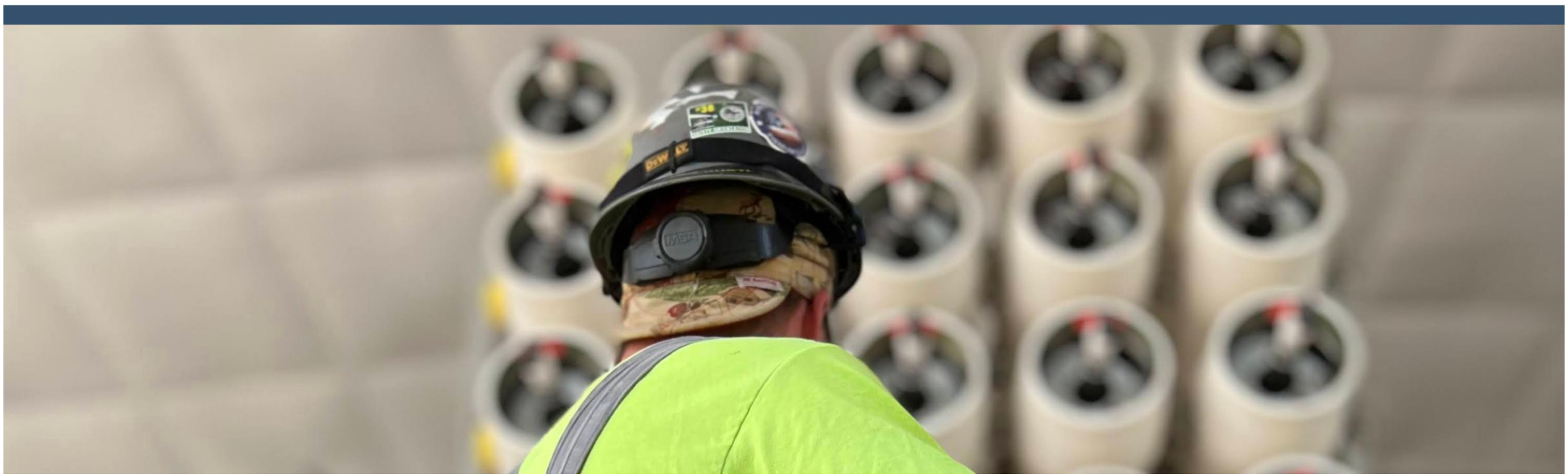
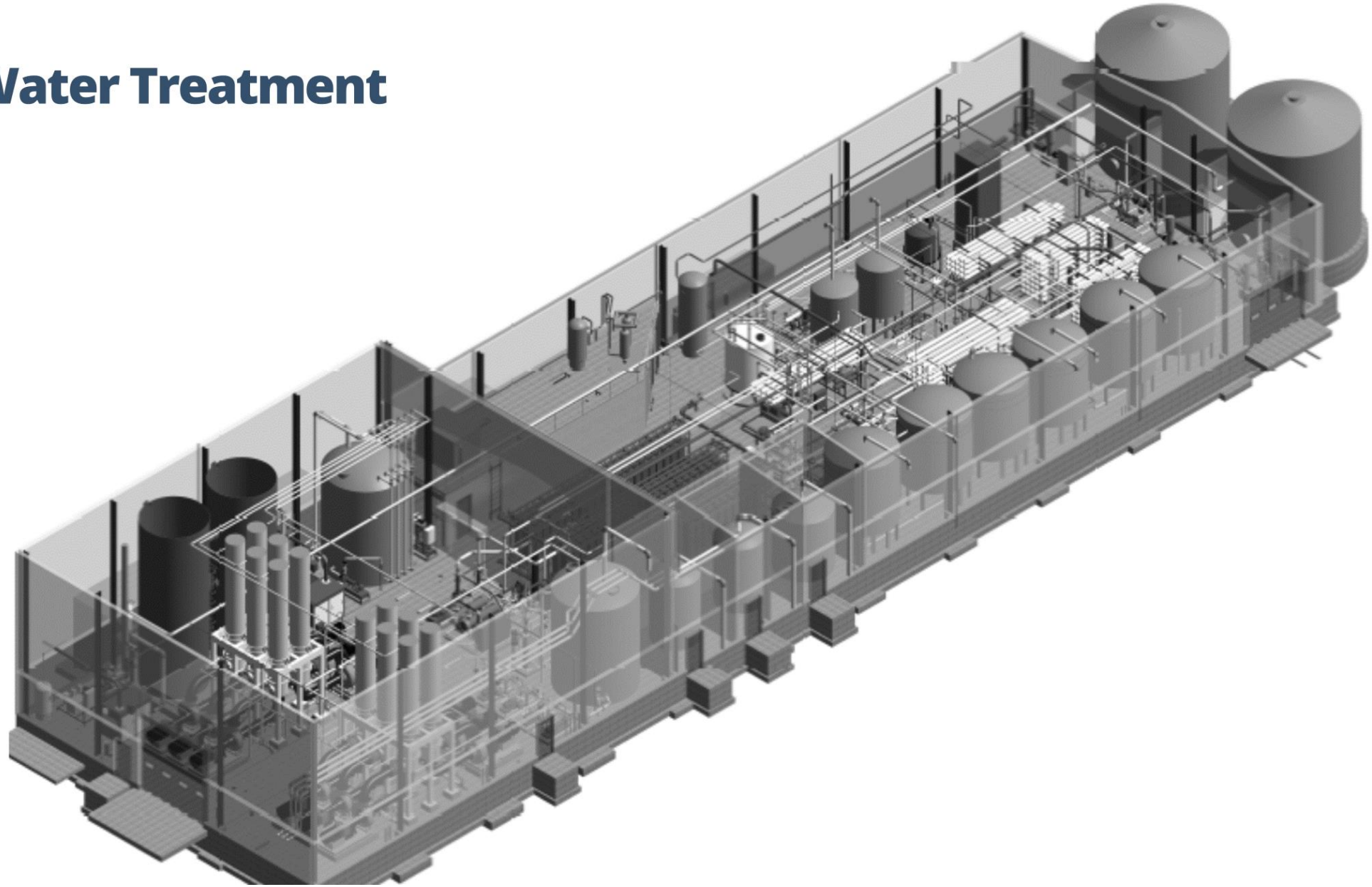


Water Treatment

- Ultra-filtration (UF) removes suspended solids
- Nano-filtration (NF) and Reverse Osmosis (RO) separate dissolved solids from the water
- Bio-filtration, Ion Exchange, and UV disinfection steps for clean water prior to discharge

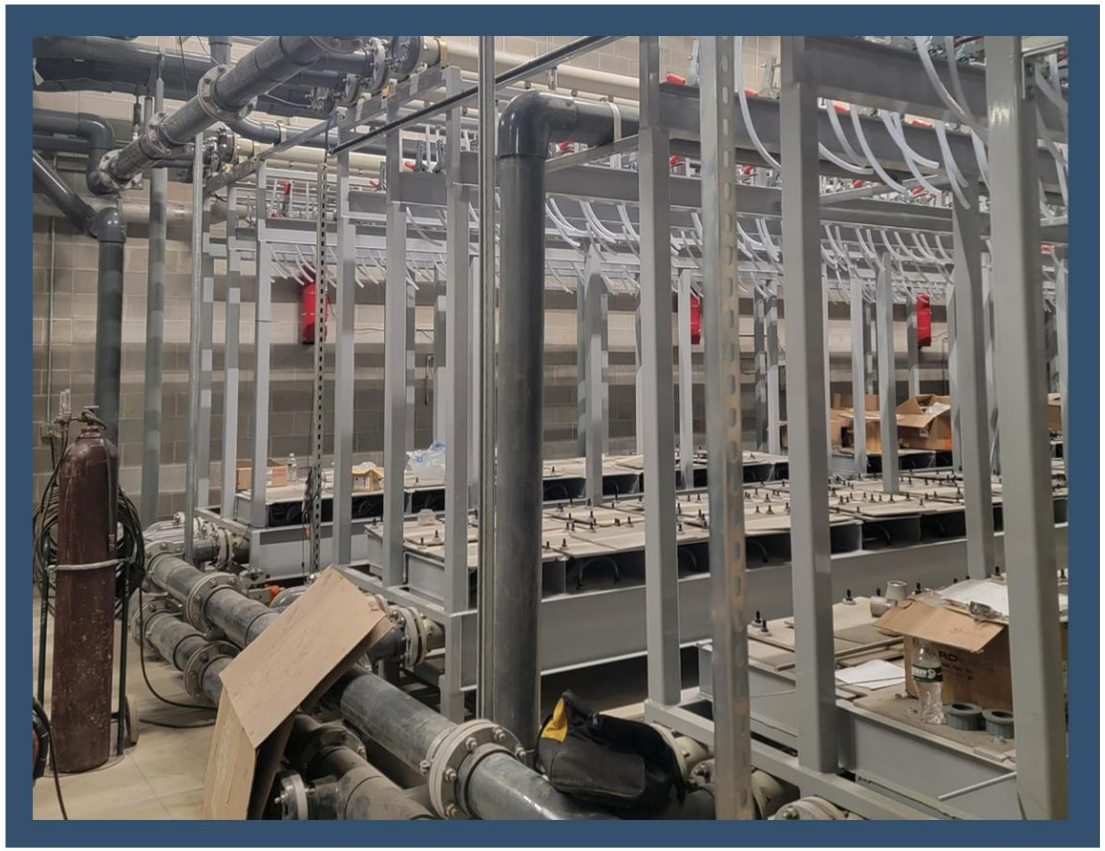


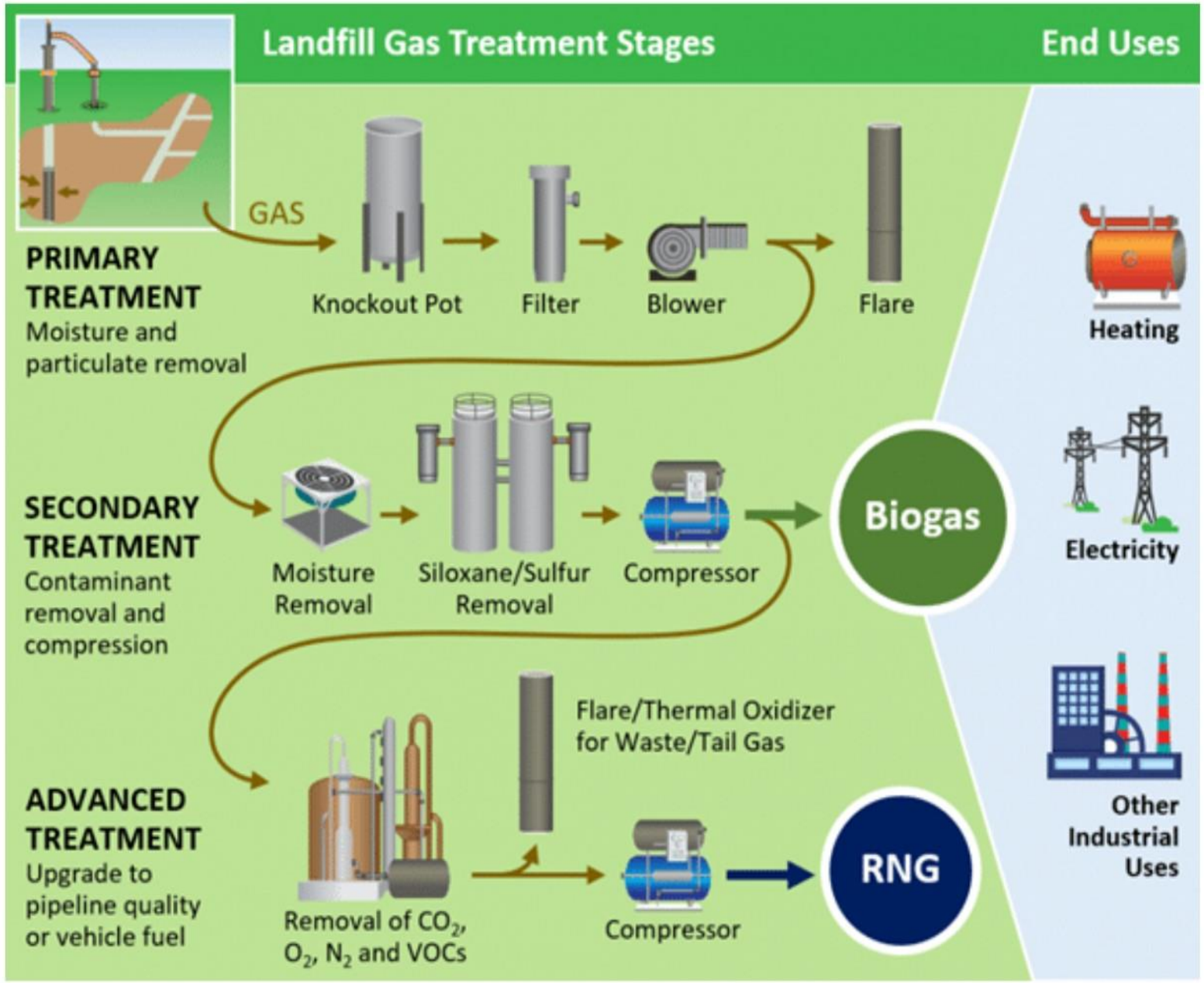
Water Treatment



Water Treatment
- UF Process

Water Treatment - NF and RO Processes




Landfill Gas Treatment Stages
End Uses
GAS
PRIMARY TREATMENT
Moisture and particulate removal
Knockout Pot
Filter
Blower
Flare
SECONDARY TREATMENT
Contaminant removal and compression
Moisture Removal
Siloxane/Sulfur Removal
Compressor
Biogas
ADVANCED TREATMENT
Upgrade to pipeline quality or vehicle fuel
Flare/Thermal Oxidizer for Waste/Tail Gas
Removal of CO_2, O_2, N_2 and VOCs
Compressor
RNG
Heating
Electricity
Other Industrial Uses

Plumb Thicket RNG – Summary Overview

Scaled operational landfill RNG project located in Kansas

Lawrence RNG Site

Project Overview

Project Type

Landfill RNG

COD Year

2022

Location

Wichita, Kansas

Gas Production

320k MMBtu/year[1]

CI Score

40[2]

Interconnect

Superior Pipeline

Lawrence RNG – Overview Summary

Scaled operational landfill RNG project located in Kansas

Lawrence RNG Site

Project Overview

Project Type

Landfill RNG

COD Year

2017

Location

Lawrence, Kansas

Gas Production

570k MMBtu/year[1]

CI Score

40[2]

Interconnect

Southern Star

Peoples– Overview Summary

Operational landfill power project which will be converted to RNG

Peoples RNG Site

Project Overview

Project Type

Landfill RNG

COD Year

2026

Location

Birch Run, Michigan

Gas Production

350k MMBtu/year

CI Score

40

Interconnect

Consumers Energy

How Can You Use RNG?

RNG Market

- RNG sales are made up of three components
  - Natural Gas Sales
  - RIN (Renewable Identification Number) Credits
    - EPA Program based on fuel blending
  - California Low Carbon Fuel Standard (LCFS) Credits
    - CO2 reduction program in CA encouraging the use of natural gas instead of diesel in transportation fuel
- There is also a voluntary market for companies to meet their carbon reduction or renewable energy goals

How Can We Use RNG?

- Good for the Environment – using existing materials/gas
- Sustainability Metrics – necessary for all corporations today
- Some of the financial programs:
  - IRS 45Z program
  - EPA fuel blending – RIN program
  - IRS 45Q could be combined
  - State programs - CA – Low Carbon Fuel Standard Standard - LCFS
- Balanced Industrial fuel loading/sources

How Can Use RNG?

- Options include:
  - On-site plant development
  - Interstate Pipeline supply
  - Supply from nearby plants
  - Joint Venture
  - Carbon credit access

- Reach out for more information
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  - Karl Crave, Karl.Crave@Sagepointenergy.com

Sagepoint Energy

Thank You!

Questions?