



2025 Energy Innovation Summit
Springfield, MA
September 25th – 26th, 2025

Session 2

Emissions Reduction & Mitigation Panel

Panel: *Vincent Gaeto, President, Liberty*
Jerry Ryan, Managing Director, New Jersey Resources
Brian McDonald, Owner & Principal, PTNGS
Rick Trieste, Manager RD&D, Con Edison
Sharon Paterson, Business Development, MIQ

Moderator: *Charlotte Ancel, President and COO, Berkshire Gas Company*

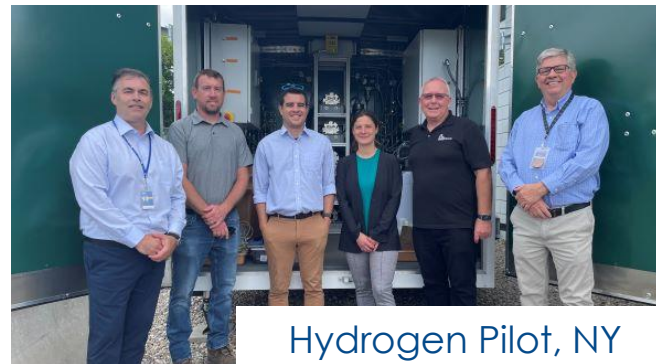
Reducing Emissions



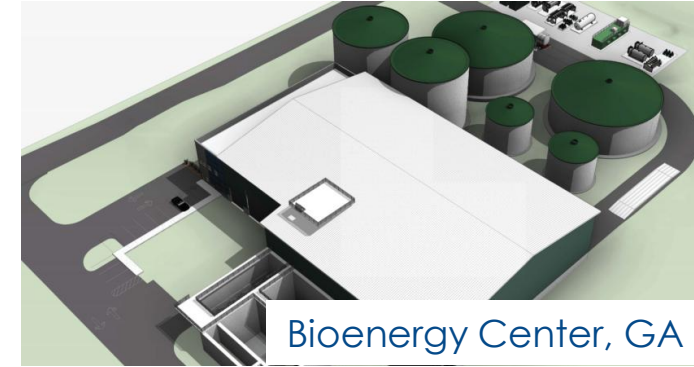
Greenwood Dairy Farm, NY



Stauffer Farms, NY



Hydrogen Pilot, NY



Bioenergy Center, GA



GA Landfill

NJNG's Decarbonization Strategy



Behind the Meter Solutions

- Continue to support significant investment in energy-efficiency programs
- Support the development of the market for gas heat pumps, hybrid heat and similar products
- Explore the utilization of carbon-capture technologies in end-use/customer applications



Innovation in Operations

- Implement advanced leak detection strategy through programs, such as direct measurement and satellite monitoring of methane emissions
- Develop a comprehensive strategy to mitigate stationary combustion sources
- Advance strategies to decarbonize NJNG operations and related services

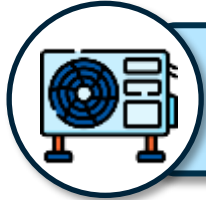


Clean Fuels

- Expand the deployment of green hydrogen facilities owned and operated by NJNG
- Drive continued progress of other hydrogen initiatives including the hydrogen hub, potential partnerships with wastewater plants, etc.
- Advance NJNG's efforts on RNG through landfill and waste-water treatment plant projects

Our objective is to enable a renewable energy transformation that is affordable and reliable through the reduction of emissions and the storage, transport and delivery of diverse renewable energy sources.

NJNG's Innovation and Clean Fuels Projects



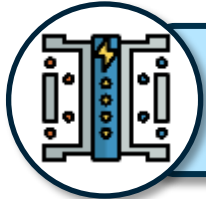
Gas Heat Pump Pilot Program - for commercial and residential applications



Geothermal Feasibility Study - determine if district geothermal is suitable for NJNG's service territory



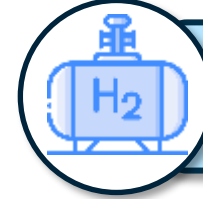
Carbon Capture - deployment of CarbinX units in service territory and pilot of Carbon Reform carbon capture technology



Fuel Cell - demonstration project for product validation and potential value



Hybrid Heat - deployment of hybrid heat units to demonstrate effectiveness



Hydrogen Power to Gas projects - preliminary engineering on to be determined hydrogen project



Renewable Natural Gas - Landfill and various RNG projects at waste water treatment plants



CNG - construction of new CNG fueling stations



Emission Reductions – 0000b/c Legislation

- Natural Gas Control Valves Commonly Utilize Pneumatic or Electro-Pneumatic Power Sources for Operation
- Many Manufacturers Control Instrumentation Solutions Exhibit High Emissions Rates Detrimental to the Atmosphere
- **LEGISLATION:** For process controllers, there are effectively 3 methods of achieving the “no identifiable emissions” standard for 0000b/c compliance:
 - Carbon Capture Technology
 - Eliminate Pneumatic Supply
 - Alternate Solutions

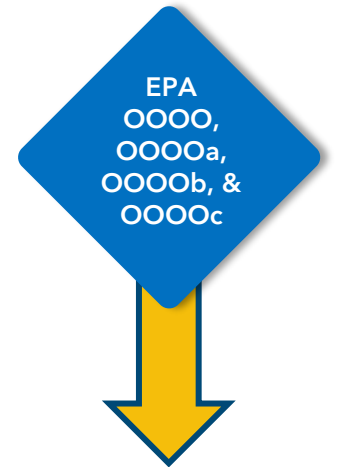
ZERO Emissions: delivering the most dependable solutions and continuity of service



Platinum Natural Gas Solutions
www.ptngs.com

All Existing Facilities

Deadline Estimated 12/31/2028





Equivalent to
Greenhouse Gas
Emissions From



HOMES ANNUAL
ENERGY USE



33
CARS DRIVEN
FOR 1 YEAR

*US EPA Greenhouse Gas Equivalencies Calculator



Platinum Natural Gas Solutions
www.ptngs.com



PSEG

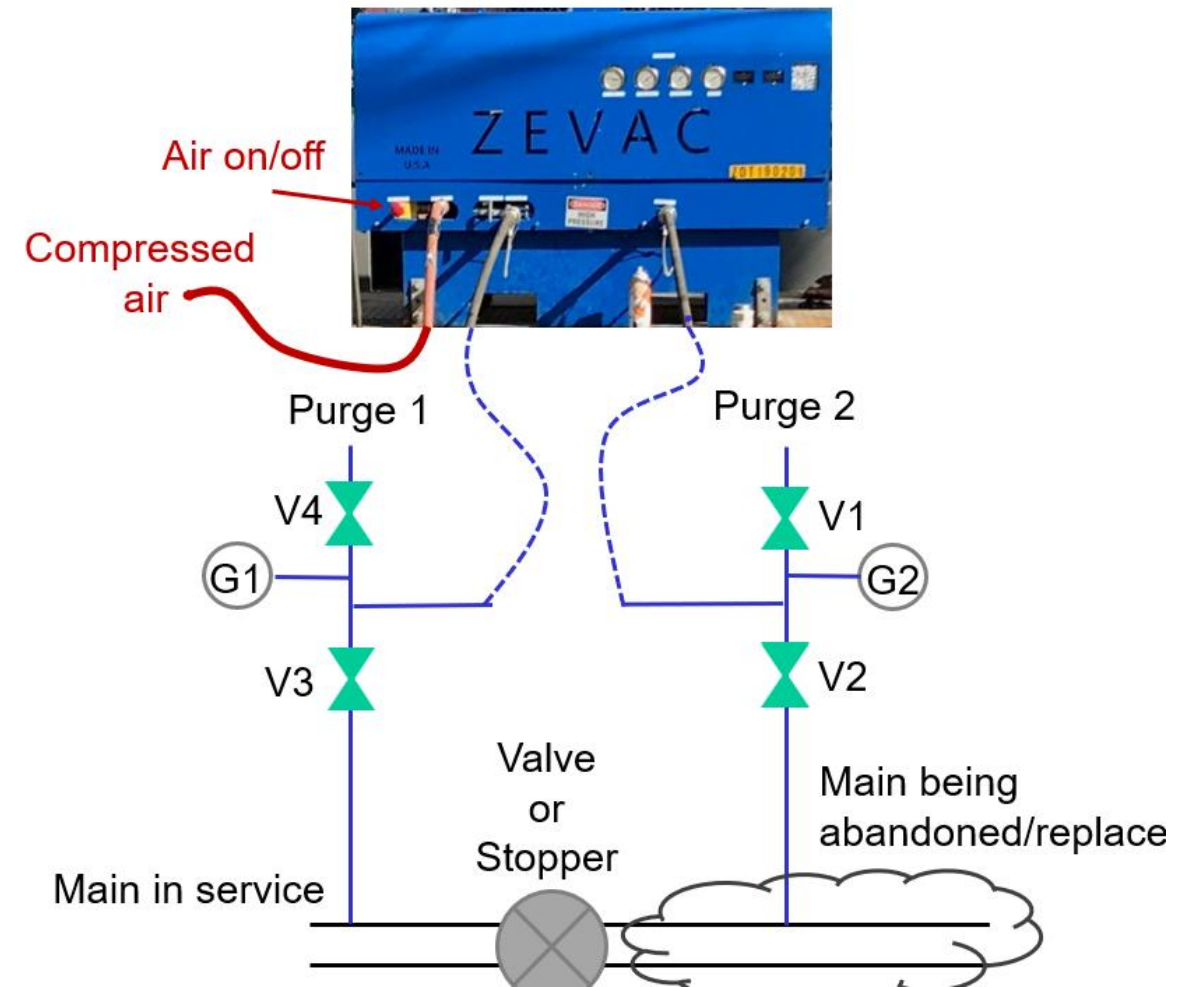
Con Edison Emissions Avoidance - Cross Compression

- Cross compression moves gas across an isolation point
 - Reduction of Green House Gas emissions
 - 49,200 scf representing 30% reduction in GHGs (*based on 2017 MRP*)
 - Avoid gas odor calls from public
 - Reduces risk of accidental ignition from venting
- Formalized use: MRP layouts, procedures
- Track emissions avoidance
- Reporting to Senior Leadership:



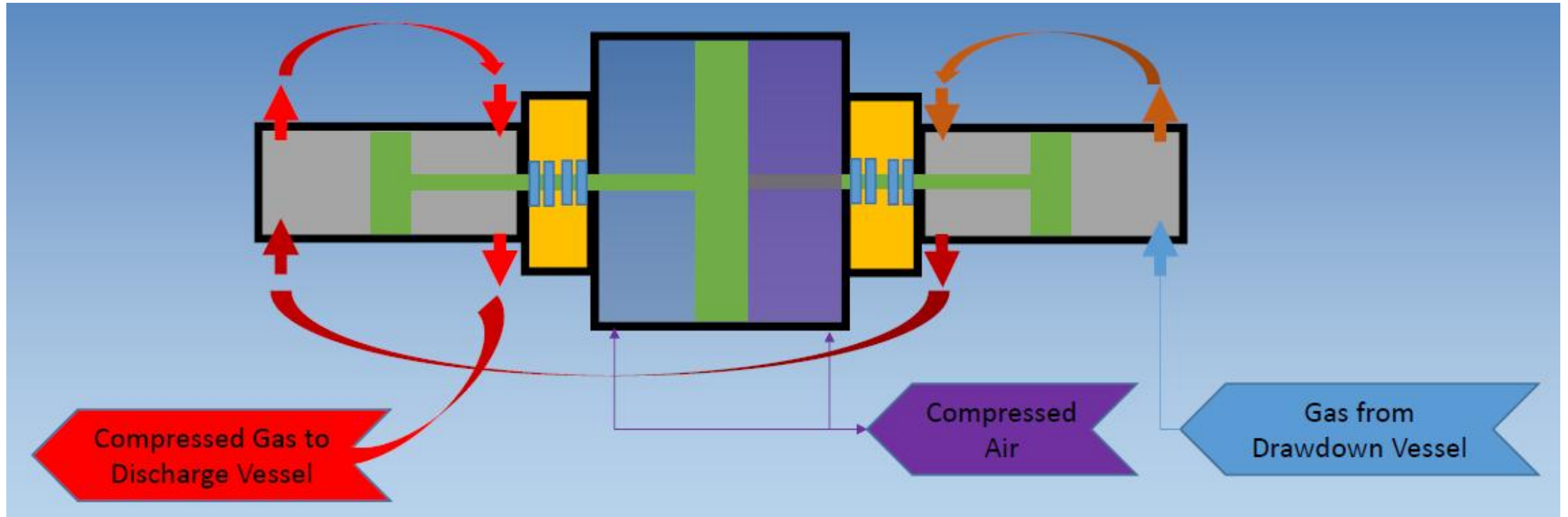
Con Edison Emissions Avoidance - Cross Compression

- Readily adaptable to current field procedures



Con Edison Emissions Avoidance - Cross Compression

- Its not a compressor, it's a pump!





Emissions Reduction and Mitigation

Northeast Gas Association
Energy Innovation Summit
September 26, 2025
Sharon Paterson



MiQ – Methane IQ

We are a global not-for-profit, founded in 2020 by RMI (Rocky Mountain Institute) and SYSTEMIQ.

We are the certified gas market leader, with a mission to address oil and gas GHG emissions through low friction markets-based certification.

MiQ certification relies on an open standard, independent 3rd party auditors, and advanced methane monitoring technology.



US producers have already certified 24 bcf/day or 20%+ of US gas production with Exxon, BP, Repsol, EQT, Expand...

Certified Gas Lifecycle



COMPANY CERTIFIES FACILITY

- Gas facility contracts with accredited auditor to conduct audit of facility
- Auditor submits report to MiQ

≤ 0.05%	Quarterly	Stringent	A
≤ 0.10%	Semi-annually	High	B
≤ 0.20%	Semi-annually	Medium	C
≤ 0.50%	Annually*	Mandatory Minimum	D
≤ 1.00%	Annually*	Mandatory Minimum	E
≤ 2.00%	Annually*	Mandatory Minimum	F

GRADES CORRESPOND TO CH4 INTENSITY

- MiQ awards certification to operator – good for one year
- Certificates expire after 3 years

Balance: 116 010									
Segment	Country of Operation	Operator Name	MiQ Grade	EO100™ Grade	Grade Status	Issue Month	Certification Region	Transactions	
Show 2	Show all	Show all	Sh	Sh	Sh	Sh	Show		
Production share	United States of America	Long Loop Main Operator Co LLC	A		Initial audit	January 2022	North America		
Production share	Norway	TEST OPERATOR	C		Initial audit	March 2021	Europe		

BUNDLED OR UNBUNDLED

- Certificates issued on MiQ Registry
- Buyers and sellers transact certificates



RETIREMENT STATEMENT IS YOUR RECEIPT

- Attributes used; certificates are retired
- Buyer claims CH4 reduction in environmental reports



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