



CH4 CONNECTIONS 2026

Pure Pneumatic Performance

Simple | Reliable | Scalable | Empirical | Zero Emitting Pneumatics

John “Bunkie” Westerheide Chief Revenue Officer, Kathairos Solutions

3,000+

SITES DEPLOYED

45M+

OPERATING HOURS

99.994%

FLEETWIDE
RELIABILITY

65+

UPSTREAM &
MIDSTREAM
CUSTOMERS

1.1M+

TCO₂E ELIMINATED
TO DATE

A Better Pneumatic Infrastructure Solution

A field-proven platform — not an emerging technology.

THE PROBLEM

Pneumatic controllers and pumps are the single largest source of routine methane venting in upstream production.

THE SOLUTION

Founded by oilfield people for oilfield people. A standalone cryogenic tank on the pad stores liquid nitrogen and lets thermodynamics do the work — a 700:1 expansion delivers clean, dry, inert supply gas up to 350 psi to the pneumatic controllers and pumps already in place.

THE MODEL

Turnkey managed service — Tank sizing, refills, monitoring and R&M.

OPERATIONAL ENVELOPE

- All major NAM basins
- Proven from -50°F to $110^{\circ}\text{F}+$
- Wellsites, central facilities, midstream compression



Eliminated at source

LN₂ removes the vented methane — not a fraction of it.



Fewer failure modes, not more

No external power, no moving parts, no compressor to maintain or freeze.



Reliability by design

99.994% fleetwide reliability, engineered for extreme, remote field conditions.



Receipts from day one

Independent telemetry: audit-ready proof, plus process-control insight.



Scales and adapts

One platform, from large central facilities to single-well sites.

Proven at Colorado scale

784

SITES IN OPERATION

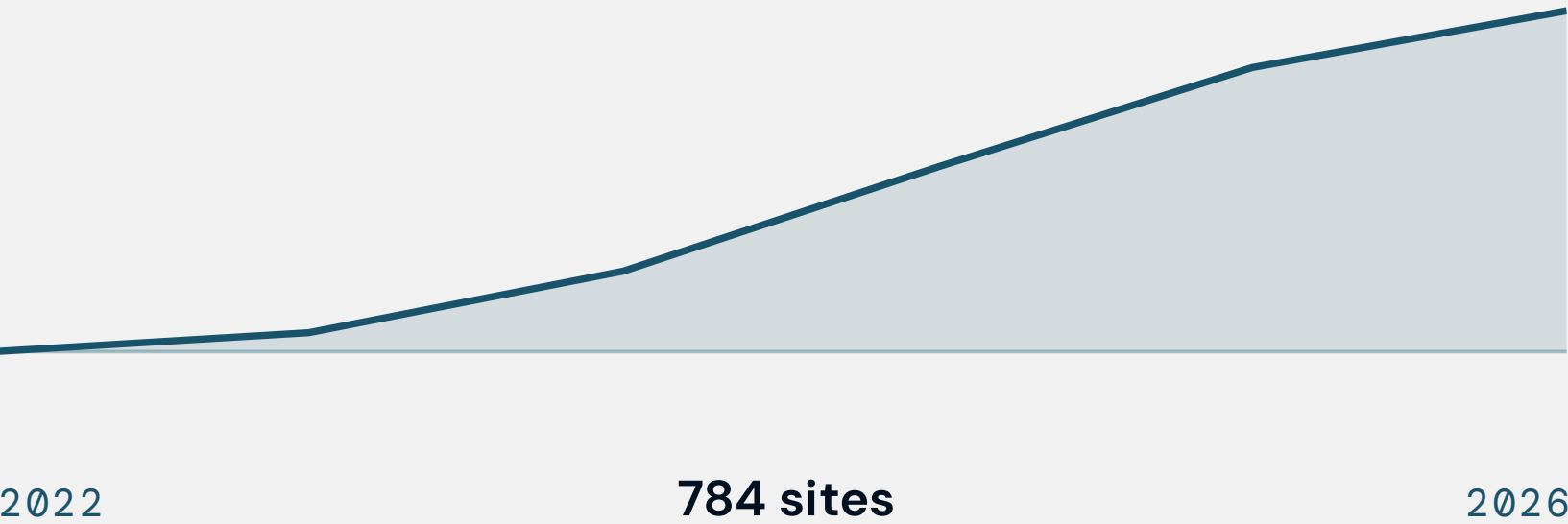
186,005

TONNES CO₂E ELIMINATED

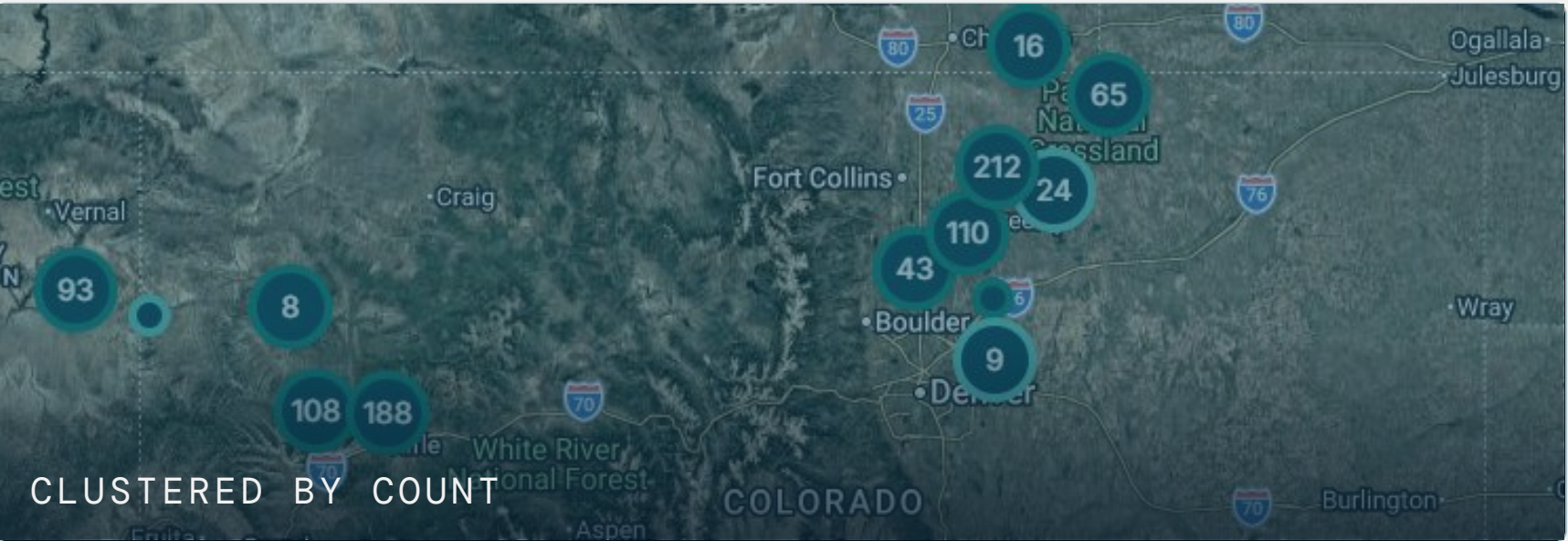
12

ACTIVE CO OPERATORS

CUMULATIVE COLORADO SITES · 2022 - 2026



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“We see value in technologies that can reduce emissions in Colorado like the liquid nitrogen system developed by Chart Industries and Kathairos Solutions. ... The projects power-free technology and lack of upfront costs are particularly beneficial for small operators, helping them meet regulatory requirements, while mitigating methane emissions.”

COLORADO ECMC & CDPHE · JOINT LETTER OF SUPPORT, AUG. 2024

The 135L Nano Tank

The proven Kathairos platform, scaled down for low pneumatic venting sites.

One zero-emission platform, every site size: large central facilities → multi-well pads → single-well marginal wells.

THE OPPORTUNITY

Reg 7 hits the Denver Metro / North Front Range area first, then statewide by 2029. Roughly **30,000 Colorado wells** are marginal — where zero emitting pneumatics are cost prohibitive. The 135L brings regulatory, cost, and performance certainty while delivering operational flexibility.

135L NANO TANK — SPECIFICATIONS

MODEL	Permacyl 135MHP
MAWP	300 PSI
USAGE	~15 SCFD
WEIGHT	265 LBS
FOOTPRINT	24×24×68.5 IN
EST. COST	~\$150 / month



LEGACY WELL PILOT PROGRAM (UNDERWAY)

A low-risk path to Reg 7 compliance

- 90-day field trial at no cost — operator covers only minor site tie-in (~up to \$3,000/site).
- Audit-ready Atlas data from day one — independent proof of venting eliminated, plus process-control insight.
- Redeployable units that scale and shrink with your asset base as wells shut in.
- Priority access to regional pilot results and preferential commercial terms.

Site fit: single-well, 1–2 devices, <15 BOE/d, no high-bleed.

Simple Reliable Methane Elimination

Deployed in < 2 weeks, how can Kathairos deliver for you?

CHIEF REVENUE OFFICER

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PRESENTATION