

SFC Energy North America

Methane Emission Reduction Strategies

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Agenda

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02	Methane Emissions in Upstream Applications
03	Managing Pneumalic Devices
04	Device Electrification
05	Instrument Air Conversions
06	Application Examples
07	Questions?







Sales

53.2€ million

(2020 Prelim)

300

Employees

Brunnthal (HQ)

Calgary Almelo

Locations

Clui

50,000

Fuel cells sold worldwide









ISO-certified for quality standards and environmental guidelines

European Innovation Award winner in 2021

100+

Global Sales and Distribution Partners



100 million

Operating hours

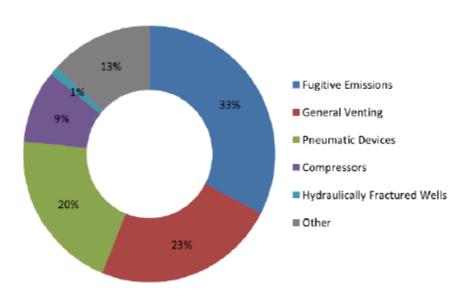
6.5 million kWh

Environmentally friendly energy





Methane Emissions in Upstream Applications



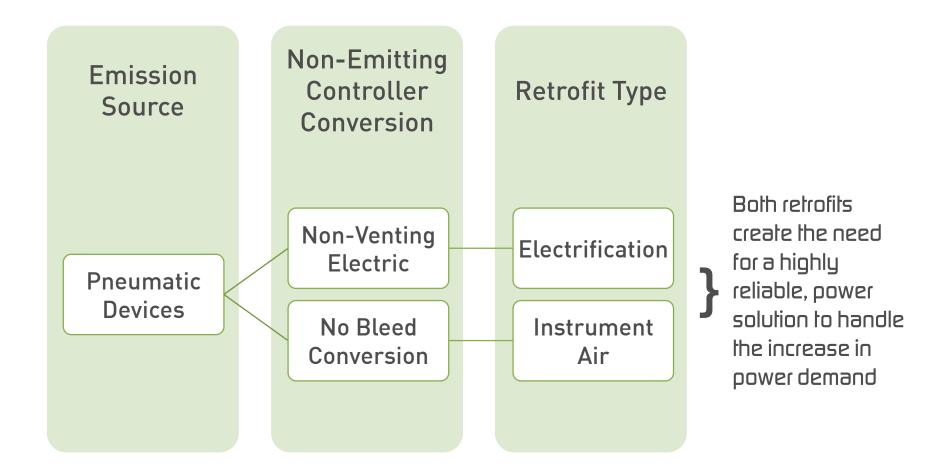
Sources of Venting At Well-Pads:

- O Pneumatic Pumps
- U Level Controllers
- Wellhead Choke Controller
- Vented Methane (FLIR Camera)

Pneumatic devices contribute 20% of methane emissions in upstream well pads



Managing Pneumatic Devices





Device Electrification



Pros:

- Highly reliability
- O Autonomous design results in reduced costs
- O Low operating & maintenance costs

Cons:

High CAPEX cost

When does this methodology make sense?

- U Ideal for greenfield applications
- Single wells and multi-well pads



Instrument Air Conversion



When does this methodology make sense?

- Brownfield applications
- Large well pad applications

Pros:

- Use existing pneumatic devices & infrastructure
- O Air compressors readily available

Cons:

- High power demand on air compressors can be challenging for remote sites
- Compared to the compared to



Example: Electric Chemical Injection Pumps



- Methane Emission free site design
- Turnkey solution: Integrated RTU & pump controller
- CEFOY Methanol Fuel Cell & Solar Hybrid Power
- U High reliability regardless of inclement weather
- U Long Autonomy & Low Maintenance
- Competitive total cost of ownership



Example: Non-venting Instrument Air Solution

- Unhalf the line of the line
- Continuous Renewable off-grid power solution as power source EFOY Fuel Cell, Batteries & Solar
- Scalable power generation & instrument air package





Example: Fully Electric Well Pad Solution



- Methane Emission free site design
- (b) EFOY Methanol Fuel Cell & Solar Hybrid Power
- Scalable, load following Power solution
- U Long Autonomy & Low Maintenance
- Competitive total cost of ownership
- Redundant design for critical, high-producing wells



Questions?







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