PROCESS ECOLOGY

processecology.com

MEAdvisor™

methaneadvisor.com

Manage flaring, venting and methane emissions from upstream oil & gas operations.

Company-wide, consistent and accurate quantification and management of methane emissions.

MeAdvisor builds on rigorous engineering methods and facility-specific information to reveal actual methane emissions profiles for each source and enable the identification of optimization opportunities.

A powerful web-based system for accurate estimation and reporting

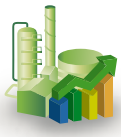
Carbon Risk Management

Demonstrate accurate GHG emissions tracking and company wide best practices. Improve Sustainability Reporting and investor confidence.

Ensure Compliance

Simplify data gathering from the field. Facilitate accurate tracking of emissions. Meet the most stringent regulatory requirements for air emissions estimation.

Profitable Operations



Identify the best opportunities for plant optimization and operating cost reductions. Maximize the value from simulation efforts.

Engineering Support

Benefit from Process Ecology's highly qualified process engineers to interpret data to detect design and operational optimization for sustainabililty.

MeAdvisor™ CASE STUDY – OIL & GAS PRODUCER REDUCES EMISSIONS

In this example, 5 typical oil & gas facilities recorded flared and vented emissions for a year using MeAdvisor™

The data showed where significant changes could be made to reduce flared, vented and GHG emissions.
The second year of data shows significant improvement.

1 Compressor Station 1 & 2

Venting	Flaring	GHG Emissions
673 → 101 E^3m^3/year	1.4 → 306.9 E^3m^3/year	11,262 → 2,813 tonne/year CO_2e

Achieved by:
- Decreasing Compressor Starts
- Reducing TEG Dehy Circulation
- Installing a Flare for Facility
- Sending TEG vent and Blowdowns to Flare

2 Oil Batteries 1 & 2

Venting	Flaring	GHG Emissions
1549 → 182 E^3m^3/year	1273 → 2101 E^3m^3/year	29,305 → 10,019 tonne/year CO_2e

Achieved by:
- Reducing PVRV Releases (ops, maintenance, design)
- Sending all tank vents and PVRVs to flare

3 50 MMSCFD Gas Plant

Venting	Flaring	GHG Emissions
149 → 74 E^3m^3/year	433 → 276 E^3m^3/year	3076 → 2,019 tonne/year CO_2e

Achieved by:
- Decreasing Blowdowns
- Reducing EG Refrig Circulation Rate
- Reducing tank emissions by installing a new tank and sending all tank vents and PVRV's to flare.

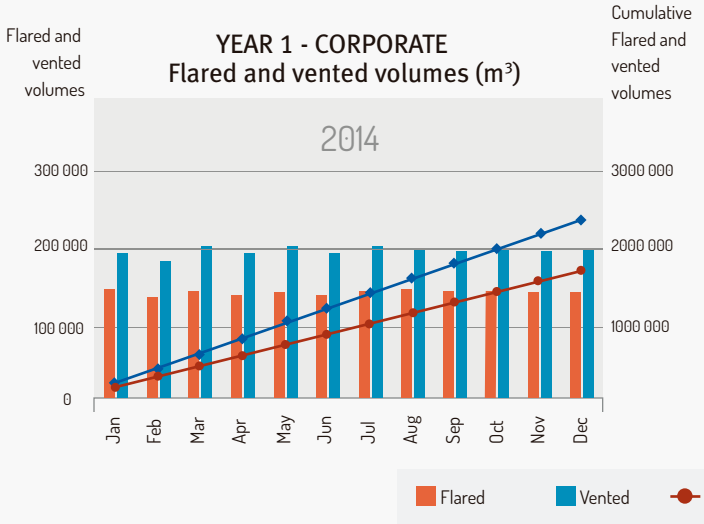
4 Company Wide Emissions

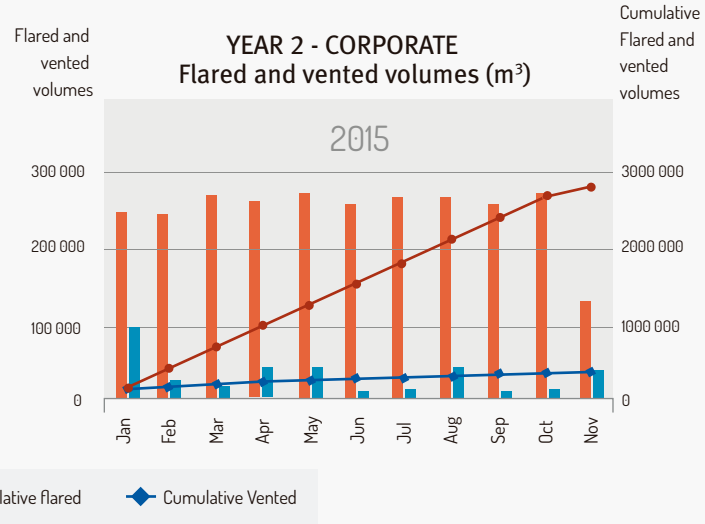
Venting	Flaring	GHG Emissions
2367 → 357 E^3m^3/year	1707 → 2684 E^3m^3/year	43,646 → 14,852 tonne/year CO_2e

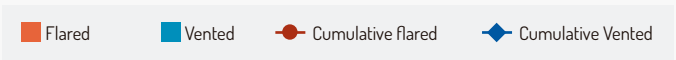
$873k to $297k at $20/tonne

SAVINGS: $576k in one year

Achieved by:
- Recording all Non-Routine Events
- Accurately calculating Continuous Sources of emissions
- Focused capital and operating spending to reduce emissions where it makes the most sense.







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