

25 YEARS PROVIDING CLEAN COMBUSTION SOLUTIONS

GLOBAL RECOGNITION

Questor

Clear Solutions Clean Skies

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President and CEO



WHO WE ARE



PUBLIC COMPANY

- Founded in 1995
- Public in 1998 on the TSX-V QST
- Patented clean air technology
- Grown from cash flow – cash in the bank, zero debt
- Revenue generated from sales, rentals and service

SUPERIOR TECHNOLOGY

- ISO certified 14034 > 99.99% combustion efficiency
- Safe and quiet = community acceptance
- Reliable equipment requiring minimal maintenance

PROVEN TRACK RECORD

- 25-years of providing global clean combustion solutions
- Performance recognized by regulators
- Global leader considered best in class - BACT
- Strong technical team
- Deep understanding of our clients' world

WHY QUESTOR

Leaders in clean combustion and waste heat to power technology

- Motivated by improving the health of our environment, we have spent over 25 years developing cutting-edge solutions to reduce pollution emissions, improve energy efficiency and utilize data to demonstrate performance.
- Our equipment is carefully designed and manufactured to ensure over 30 years of operable life. We have placed thousands of units worldwide!
- We are the first company globally to be ISO14034 certified for 99.99% combustion efficiency performance. This is an environmental green technology performance verification.
 - ✓ *Right place at the right time with reliable, proven, cost effective technology, solving a global problem*

25+ YEARS OF EXPERIENCE

1000+ Q – SERIES PLACED WORLDWIDE

>99.99% Q – SERIES COMBUSTION EFFICIENCY



**Jambi Merang -
Indonesia**



**Loading -
Canada**



**Well drilling,
completions &
production Europe**

EUROPE



**Zohr H₂S-
Egypt**



**13 Oil Battery -
Mexico**



**Zero flaring and
venting compressor
site - US**

Questor's Global History

STRANDED ASSOCIATED GAS



- Air Quality Impact
- Harmful emissions
- Greenhouse gas emissions
- Significant waste of energy
- Community impacts
- Quality of life



GREEN CLEAN POWER FROM WASTE GAS



Oil Battery - Mexico

HARNESS HEAT

- Harness the heat from our combustion unit
- Heat from boilers and engine flue gas
- Other process streams
- Large quantity of low-grade heat currently wasted

SUPERIOR TECHNOLOGY

- Zero emissions green power
- Consistent operation (Available 24/7)
- Small footprint
- Simple battery (hot water tank)
- No rare earth minerals needed



STRANDED GAS – E&P FACILITIES



Rental Unit



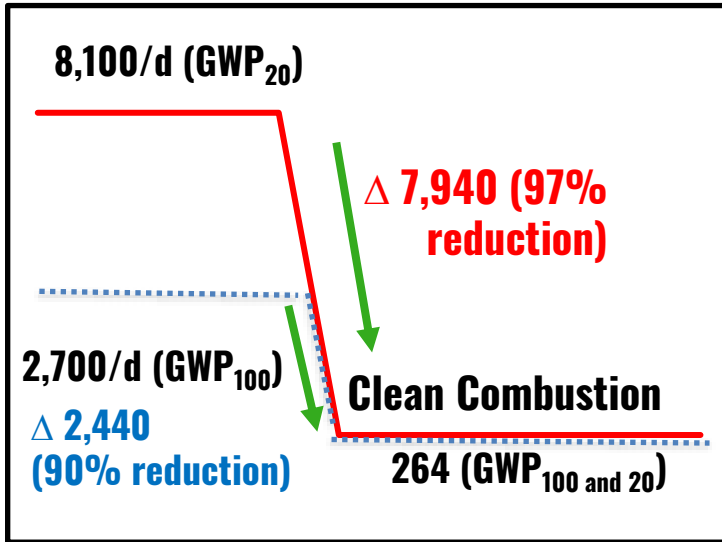
Production Unit

44 WELL PAD SITE IN COLORADO

- 30% reduction in lease size
- 25% reduction in pad cost
- Regulator recognition of 99.99% efficiency
- Incremental 400 bbls/d production
- \$20,000 revenue/d production

NON-ROUTINE AND MAINTENANCE OPERATIONS

Questor unit eliminating the venting of 5MMSCF/day of Methane



tonne CO₂e/day

Methane:
GWP₂₀ = 84 tonne CO₂e
GWP₁₀₀ = 28 tonne CO₂e

Ref: (IPCC-AR5)



PIPELINE BLOWDOWN – COLLEGE STATION, TX.
5MMSCF/D

SITES DESIGNED FOR NO FLARING AND VENTING

ZERO METHANE AND ZERO POLLUTION



COMPRESSOR STATION - NEW YORK STATE

Non-Routine and Maintenance

- Maintenance – pipeline, engines,
- Pipeline blowdowns and pigging
- Soft starts
- Equipment failure




Routine Process

- Dehy Still Column, Tank, Amine, Process Units, PSV's, ESD's, etc.

ATTAINABLE PATH TO NET ZERO

CO₂ + H₂O + N₂ + Heat

GHG 264 tCO₂e
 GHG Reduced 7,736 tCO₂e (97%)
 Cost: \$0.10/tCO₂e

 **ELECTRICITY (ORC) 7.5MW**
 **WATER TREATMENT**
 **PROCESS HEAT**

Carbon credits: \$143M
Value of generated power: \$8M

VENTED CH₄

METHANE
 5 MMSCFD
 GHG 8100 tCO₂e

HEAT

CO₂ + N₂

GHG 187 tCO₂e
 GHG Reduced 77 tCO₂e (98%)
 Cost: \$0.45/tCO₂e

CLEAN H₂O

N₂

CO₂

Cost of CO₂ capture \$15-30/tCO₂e

ZERO EMISSIONS

Avg. Wt. Cost: \$1.00/tCO₂e

CAPEX: \$12.5M
Payout <1 year

Questor

1 - Clean Combustion

2 - Heat Utilization

**3 - Capture/
Separation**

**4 - Utilization/
Storage**

5 - Result

\$3.6 BILLION WILL REDUCE 1GtCO₂e/YR

Methane global warming potential is 84x higher than CO₂ over 20 years.

Forms toxic compounds, VOC's and Ozone and ultimately CO₂

14.5 billion cubic feet of gas is flared and vented daily ¹

4,833 Questor Q5000 units could handle this volume

Cleanly combusting these streams instead of flaring and venting

Cost \$3.63B ➡ 2.6MMt CO₂e/d or 1Gt CO₂e /yr.

Over a 10-year project life < \$0.50 / tCO₂e

Assumptions

- 65% flared and 35% vented - 80% methane in the stream
- Flare combustion efficiency is 80%
- 3MMscf/d can be cleanly combusted in a Questor Q5000 at 99.99%
- GWP of 25 over a 100 year period

1. Global Gas Flaring Tracker Report, GGFR, The World Bank, July 2020



STOPPING THE TEMPERATURE RISE

IT'S ELIMINATING METHANE AND ENERGY EFFICIENCY

EN-ROADS

English

Simulation

Graphs

View

Help

Home

Navigation

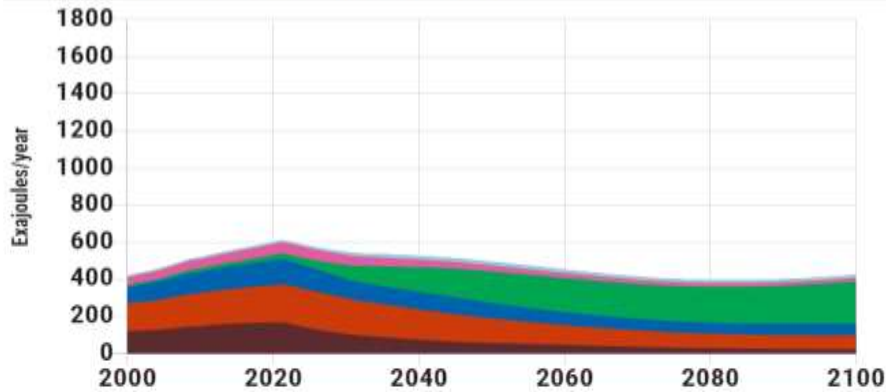
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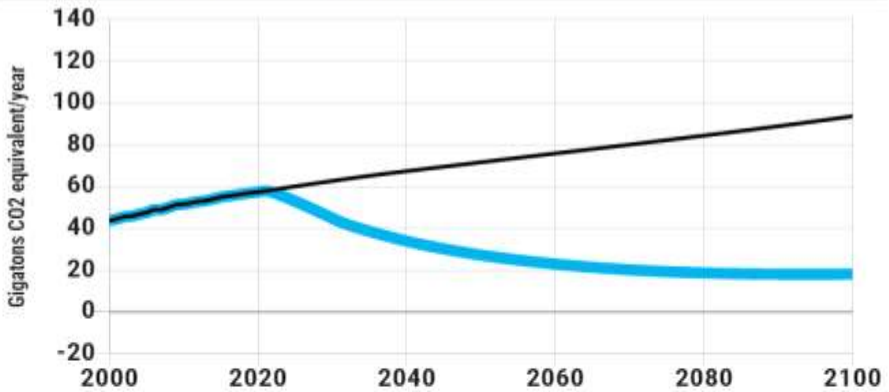
BETA

Share Your Scenario

Global Sources of Primary Energy



Greenhouse Gas Net Emissions



+2.1°C

+3.7°F

Temperature Increase by 2100

COAL OIL GAS RENEWABLES BIOENERGY NUCLEAR NEW ZERO

BASELINE CURRENT SCENARIO

Energy Supply

Coal: status quo

Oil: status quo

Natural Gas: status quo

Bioenergy: status quo

Renewables: status quo

Nuclear: status quo

New Zero-Carbon: status quo

Carbon Price: very high

Transport

Energy Efficiency: highly increased

Electrification: status quo

Buildings and Industry

Energy Efficiency: highly increased

Electrification: status quo

Growth

Population: status quo

Economic Growth: status quo

Land and Industry Emissions

Deforestation: status quo

Methane & Other: highly reduced

Carbon Removal

Afforestation: status quo

Technological: status quo

CLIMATE INTERACTIVE

MIT MANAGEMENT Sustainability Initiative

En-ROADS Climate Ambassador Training



Clear Solutions. Clean Skies

PRESENTER

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