

About Us



The Hago Energetics team of engineers and scientists has created enabling technology to reduce the carbon impact on the oil and gas sectors, while enhancing profits. Our team has decades of experience in science, engineering innovation, with a focus on cost effective, profit-enhancing solutions.



We are guided by a commitment to developing new technologies and processes to make hydrogen energy more cost-effective and accessible. Our goal is to help to accelerate the transition to a more sustainable and carbon-neutral energy system.



FOR AN
ABUNDANT
FUTURE

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HAGO

energetics

*“Clean Hydrogen
from Natural Gas”*

Turn flaring into profit while
eliminating penalties



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The Problem

Natural gas well flares are wasted energy, but also a potential source of useful energy. Governments are also increasingly imposing fines for methane emissions. Using our technology, we can change this “waste” into a financially-valuable resource. A recent study published in the journal Science found that flaring is not eliminating nearly as much methane as has been assumed. As is well known, methane is a greenhouse gas many times more potent than carbon dioxide (20 to 100 times, depending on time scale considered).

“Our findings indicate that flaring is responsible for five times more methane entering the atmosphere than we previously thought,” says Genevieve Plan, the study lead author and Assistant Research Scientist at the University of Michigan.

[Methane is 28 times more powerful than carbon dioxide in its impact on global warming]



Contamination: The Petroleum Refineries Sector is the second highest ranked sector in terms of GHG emissions per facility, with an average of 1.22 million metric tons of carbon dioxide equivalent behind only the Power Plant Sector.



Climate Change: The oil refining industry is the third-largest stationary emitter of greenhouse gases in the world, contributing 6% of all industrial greenhouse gas emissions.



Civil Penalties: Clean Air Act violations at oil and gas facilities protect communities from harmful smog and reduces methane emissions that are major contributors to global climate change.



Refinery Emissions: CO2 emissions from oil refineries were 1.3 gigatonnes in 2018 and could reach 16.5 Gt in 2030, contributing 6% of all industrial greenhouse gas emissions.

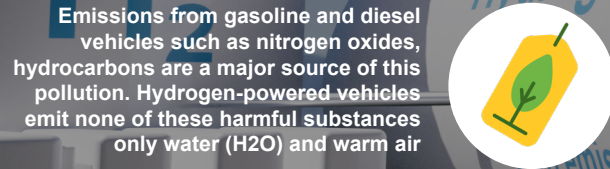
HAGO Solution

Our approach to monetizing flares involves a process called methane pyrolysis. Pyrolysis is most commonly used in the treatment of organic materials and refers to the decomposition of organic materials in the absence or limited amounts of oxygen.

Our method is a technologically simpler, one step process, compared to the traditional two-step SMR/WSR steam reforming process.



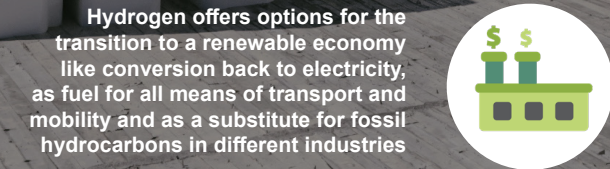
Hydrogen is an optimal energy solution, Hydrogen advantages include eliminating emissions to improve regional air quality while reducing greenhouse gas emissions



Emissions from gasoline and diesel vehicles such as nitrogen oxides, hydrocarbons are a major source of this pollution. Hydrogen-powered vehicles emit none of these harmful substances only water (H2O) and warm air



The scale up of clean hydrogen can play an important role in achieving Net Zero emissions by enabling the decarbonisation of hard-to-abate sectors and the wider integrated energy system

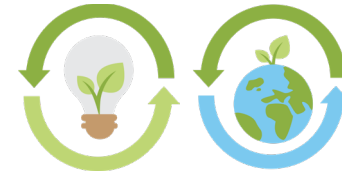


Hydrogen offers options for the transition to a renewable economy like conversion back to electricity, as fuel for all means of transport and mobility and as a substitute for fossil hydrocarbons in different industries

Business Model + Revenue Streams

Our proposed business model involves the acquisition of surplus natural gas from your operations. Following this, we undertake comprehensive management and logistical responsibilities. This mutually beneficial arrangement ensures profitability for both parties while contributing to the global initiative of reducing carbon emissions

Hydrogen can be sold back to the refinery or used for off-grid electricity



Our solution not only helps the oil & gas industry but also the agriculture industry.



Avoid Fines

In the US, methane emitters can be fined \$1500 per ton of methane released into the environment



Turn flare gas into **REVENUE**



Participate in the growing market of **Clean HYDROGEN**



Favorable Press + Public Relations



CARBON CREDITS from reducing emissions