

## WHO ARE WE?

MAZE Environmental's system costs less, reduces emissions, and yields more oil in the tank than traditional systems.

*"Flare stacks were designed for safety purposes, but they have resulted in too much waste – environmental, energy, and financial.*

*Maze Environmental gets rid of the flare, the emissions, and the waste."*

**Brooks Pearce**  
Founder & CEO



Zero Emissions with MAZE Environmental

### Where does methane come from?

Agriculture, fossil fuel production, and the management of waste are the primary sources of methane emissions:

#### • Livestock:

Ruminant animals – cattle, goats, and sheep – produce methane through a process called 'enteric fermentation'.

#### • Rice Cultivation:

Waterlogged paddy fields provide an ideal environment for microbes to produce methane in a process called 'methanogenesis'.

#### • Biomass Burning:

Methane is produced from the incomplete combustion of large-scale burning of woodlands, savanna, and agricultural waste.

#### • Waste:

The decomposition of organic waste in landfills produces methane.

#### • Fossil fuel production:

Methane can be released during oil and gas extraction – a category often termed 'fugitive emissions'.

***Methane emissions are the second largest cause of global warming***

### What is the warming potential of methane compared to CO2?

Methane is a much stronger greenhouse gas than CO<sub>2</sub> in terms of its 'warming potential'. Over a 100-year timescale, and without considering climate feedbacks, one ton of methane would generate 28 times the amount of warming as one ton of CO<sub>2</sub>. This means that, despite contributing only 3% of greenhouse gas emissions in terms of mass (tons of carbon), methane has been responsible for around 23% of radiative forcing since 1750.

## How long does methane stay in the atmosphere?



MethaneSAT and Google Earth Outreach



Methane is a very 'short-lived' greenhouse gas. This means that after it accumulates in the atmosphere, it is removed relatively quickly – on the timescale of decades in contrast to CO<sub>2</sub> which can persist in the atmosphere for centuries or even thousands of years. The average 'lifetime' of methane in the atmosphere is around **12 years**.

This means that reductions in methane emissions quickly result in reductions in the methane concentrations in the atmosphere. This would reduce its warming effects. So, tackling methane emissions could be an effective and rapid way to mitigate some of the impacts of climate change – on the timeframe of decades.

Oil and natural gas will be part of the energy system for decades to come – even under ambitious efforts to reduce greenhouse gas emissions in line with the Paris Agreement. As part of today's energy transitions, it is therefore vital to reduce the immediate environmental impacts associated with producing and consuming these fuels.

Reducing methane emissions is a powerful and cost-effective way to act, providing an essential complement to action on reducing methane and CO<sub>2</sub>.



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Maze Environmental creates solutions for the oil industry. We have a vision for our future and the future of oil production where we don't have to choose between the Earth and the economy. Our product gives operators more oil in the tank, costs less, and reduces emissions more than traditional systems. Clean energy is surging. Just not fast enough. There's a lot of counterproductive talk from politicians. I think it's fair to say, we have more pie-in-the-sky posturing than real progress.

Everyone can agree that we shouldn't wait any longer to move forward and transition to game-changing energy and environmental solutions that have the potential to transform – not just American industry and the economy – but the entire world. The smartest solutions are often right in front of you, you just have to see their potential. We've created a new product and process for upstream stabilization for the oil and gas industry.

It seems clear to me that our leaders should be investing in the infrastructure that does the most good for the country, the economy and the environment. That's where Maze Environmental comes in. Beyond what we at Maze believe are some groundbreaking solutions, we've also discovered something else that's rare and needed – climate optimism.

Maze is excited to help propel our world along the path to a clean energy future and continued prosperity. With American ingenuity, turns-out we don't have to choose between the Earth and the economy. We need real practical solutions and time is of the essence. These solutions will come from private sector innovation and Maze is ready to lead.