

## Flaring: A global problem with a profitable solution.

Gas flaring, a process of natural gas combustion associated with oil extraction, continues to be an environmental issue. However, *it can be turned into a profitable option anywhere in the world.* 

The global issue of flaring continues to grow over the years. Flaring significantly contributes to global warming, impacting health, energy, agriculture, air quality, among others. Nevertheless, it is a practice that can be reversed and used to improve economic development, provide greater energy security and potentially contribute to the environment.

According to a report generated by the World Bank, the top 10 countries that use this flaring process represented 75% of the total gas flared and 50% of global oil production in 2021. Seven of these ten countries have consistently held this position over the past decade: Russia, Iraq, Iran, the United States, Venezuela, Algeria, and Nigeria. The other three (Mexico, Libya, and China) have shown significant increases in gas flaring in recent years.

This results in methane emissions from inefficient torch combustion contributing significantly to global warming, as methane is 80 times more powerful than carbon dioxide as an element of global warming over a 20-year period. This highlights the importance of energy efficiency and energy savings in addressing the current climate change crisis and rising energy costs, while also strengthening energy security by reducing pressures on prices and demand in global energy markets.

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According to the International Energy Agency, improvements in efficiency, accelerated deployment of renewable energy, and other clean energy solutions could release 12,000 Bcf of natural gas by 2025, surpassing the annual gas consumption of all of Africa, Central America, and South America. Additionally, they add that by implementing all available technology to reduce methane emissions, flaring from the oil and gas sector can avoid nearly 0.1°C of global warming by mid-century. This would be equivalent to the immediate removal of the GHG footprint of all cars, trucks, buses, and vehicles of two and three wheels in the world.

In 2025, the World Bank and the UN Secretary-General boosted the Zero Routine Flaring (ZRF) initiative by 2030, which commits governments and oil companies not to use gas flaring routinely in any new oil field development and to end routine flaring in existing fields as soon as possible and no later than 2030.

In this regard, Argentina has committed to submit its 2030 Climate Action National Plan at COP27 which includes specific measures that will lead to limiting methane emissions of the oil and gas industry, reinforced control of flaring and venting, and an increased share of renewable energy in its mix of power generation.

## Galileo's technology as the solution to the problem

For this reason, recognizing that non-conventional oil and gas production can also be performed responsibly, Galileo Technologies has developed a profitable and sustainable solution, turning the flaring issue into an opportunity for its clients.

With the ability to develop this treatment anywhere in the world, Galileo Technologies' modular gas upgrading and liquefaction solutions allow for clean natural gas distribution at accessible costs, and without pipelines. The company has the technology and proven experience to counteract the gas venting issue, and the quality of its equipment has made it possible to reach a mechanical availability of over 96% in flaring capture projects, providing proven profitability for customers.



"Continuing on the path towards energy transition, we believe it is crucial to leverage Argentina's second-largest reserve of shale gas to develop and strengthen our energy matrix with a vision of a sustainable future. We can affirm that non-conventional oil and gas production can also be carried out responsibly, reaching favorable results in reducing the GHG footprint. Likewise, it can generate great profits for companies by monetizing what is currently considered waste", said Osvaldo del Campo, CEO of Galileo Technologies.

## Sources:

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\*World Bank – Global Gas Flaring Data. URL: <u>https://www.worldbank.org/en/programs/gasflaringreduction/global-flaring-data</u> (Visitado 10-03-2023)

\*IEA - Global CO2 emissions rose less than initially feared in 2,022 as clean energy growth offset much of the impact of greater coal and oil use. URL: <u>https://www.iea.org/news/global-co2-emissions-rose-less-than-initially-feared-in-2022-as-clean-energy-growth-offset-much-of-the-impact-of-greater-coal-and-oil-use</u> (Visitado 10-03-2023)

\*Institute for Governance & Sutainable Develepment - The US – EU Announce Critical Implementation of the Global Methane Pledge for Oil & Gas. URL: <u>https://www.igsd.org/the-us-eu-announce-critical-implementation-of-the-global-methane-pledge-for-oil-gas/</u> (Visitado 10-03-2023)

## About Galileo Technologies

Galileo Technologies is a leading company in the engineering and manufacturing of high-value-added energy solutions. For more than 30 years, it has been dedicated to expanding access to energy sources associated with carbon footprint reduction. Characterized by its modularity and scalability, Galileo's technologies provide solutions for the production, distribution, and consumption of Compressed Natural Gas (CNG), Liquefied Natural Gas (LNG), Renewable Natural Gas (RNG), and Hydrogen (H2). With corporate offices in Buenos Aires (ARG) and New Jersey (USA), and service and training hubs in Texas (USA), Galileo Technologies provides ongoing support in 70 countries.