

PRESS RELEASE

KHIMOD and Calvert Technology Group Announce Partnership to Offer an Innovative Solution for Reducing Gas Flaring in Oil Extraction

Paris, October 18th 2024— In response to the climate emergency, KHIMOD and Calvert Technology Group are announcing a partnership to develop a unique solution aimed at reducing gas flaring in oil fields, particularly in the Gulf region. This partnership aligns with global efforts to reduce greenhouse gas emissions, as encouraged by initiatives such as the World Bank's "Global Flaring and Methane Reduction (GFMR) Partnership," presented at COP28.

Gas flaring is a significant environmental and economic challenge. Each year, billions of cubic meters of natural gas, primarily methane, are burned at oil and gas production sites, releasing massive amounts of CO₂ and methane (CH₄), two major greenhouse gases. In 2021 alone, 144 billion cubic meters of gas were flared, emitting 400 million tons of CO₂ into the atmosphere. Despite numerous initiatives, there is currently no viable small- or medium-scale technical solution to significantly reduce gas flaring.

KHIMOD and Calvert Technology Group are committed to changing this reality with a radically new technology. Together, they have developed a solution to convert flared gas into usable liquid fuels, significantly reducing greenhouse gas emissions while harnessing a frequently wasted energy resource.

CALVERT - An Innovative and Integrated Technological Solution

Calvert Technology Group, a key player in engineering, designing, and manufacturing modular facilities for the oil and gas industries, will integrate two groundbreaking technologies into this project. First, a low energy Gliding Plasma Arch Reformer (GPAR) that can convert waste, flared, vented and biomass gases into syngas (synthesis gas), a mix of hydrogen (H₂) and carbon monoxide (CO). Second, KHIMOD's Fischer-Tropsch (FT) synthesis technology, which transforms this syngas into e-crude, methanol or e-wax. This partnership aims to implement these technologies to offer a scalable and economically viable solution to the flared and vented gas issue.

Upcoming Deployment in the Gulf Region

The first full-scale test of this collaboration will take place in the Gulf region, in a major oilfield. The testing campaign, set to begin in the second half of 2025, will validate this innovative technology in the field. If successful, the first industrial pilot will launch in 2026, marking a key step toward large-scale gas flaring reduction.

This initiative paves the way for fast-track large-scale industrial installations, with the ambition to significantly reduce global greenhouse gas emissions and meeting the 2030 flare out targets.

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Ambitious Goals for Reducing Greenhouse Gas Emissions

The partnership between KHIMOD and Calvert Technology Group is part of a broader initiative to address one of the most complex challenges of the energy transition: reducing gas flaring in the oil industry. This initiative is not solely about combating climate change but also about optimizing natural resources by utilizing often-neglected energy sources.

"Our partnership with Calvert Technology Group represents a decisive step toward decarbonizing the oil and gas industry. By integrating disruptive technologies, we are confident that we can make a significant contribution to reducing greenhouse gas emissions while maximizing the use of natural resources."

Nicolas Serrie

President of KHIMOD

"We are excited to collaborate with KHIMOD to bring a sustainable and innovative solution to the problem of waste, bio and vented gas issue. Our goal is to demonstrate that these technologies can be deployed on an industrial scale, offering a long-term, viable solution for the energy industry."

Tino Ceniti

President of Calvert Technology Group

About KHIMOD

KHIMOD is a French company specializing in green-tech solutions, developing technologies for the production of synthetic molecules such as e-methane, e-methanol, e-kerosene, and e-ammonia. Its technology is based on innovative reactor-exchangers that reuse and valorize carbon. KHIMOD operates across various sectors, including waste valorization, chemicals, hard-to-decarbonize industries, and air and maritime transport.

About Calvert Technology Group

Calvert Technology Group is a global leader in technological solutions for gas valorization. Key markets are the United States, Africa, South America, and Middle East. Calvert Technology Group is recognized for its expertise in modularized plants for the oil, gas, petrochemical, biomass and metallurgical industries.

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