METHANE ALERT AND RESPONSE SYSTEM (MARS)
CONFIRMED MITIGATION ACTION

USA (USA_S_202)

Through MARS, UNEP's International Methane Emissions Observatory (IMEO) turns satellite data into methane action. MARS is the only public global satellite-based system alerting governments and companies of extreme methane emissions. Using 30+ satellite instruments, combined with expert analysis and AI models, MARS detects major emission events and enables rapid response.

LAST UPDATED
15 April 2026

SOURCE ID
USA_S_202

COUNTRY
US

COORDINATES
32.23819°, -103.51247°

SECTOR
Oil & Gas

SOURCE TYPE
Gas Processing Unit

TOTAL NUMBER OF PLUMES DETECTED
3

DATE OF FIRST DETECTION
27 June 2024

DATE OF REPORTED MITIGATION
19 July 2024*

ESTIMATED TOTAL VOLUME OF EMISSIONS

700 tonnes

SAME CLIMATE IMPACT AS

13,500 cars

DRIVEN FOR A YEAR

*AS OF 3 OCTOBER 2025, IMEO OBSERVED SUBSEQUENT METHANE EMISSIONS AT THIS LOCATION. THROUGH MARS, IMEO CONTINUES TO ENGAGE STAKEHOLDERS TO SUPPORT SUSTAINED MITIGATION.

DETECTION & ACTION

THE CAUSE AND THE SOLUTION

The emissions were caused by a leaking pressure safety valve. After the leaking valve was identified, the operator shut down the unit and repaired the valve, stopping the emissions.

The image shows a plume detected by NASA's EMIT in US on 27 June 2024. No further emissions have been detected at the location since 19 July 2024.

In implementing MARS, UNEP collaborates with various institutional partners, including the World Bank, International Energy Agency, the Climate and Clean Air Coalition, Universitat Politècnica de València, the Netherlands Institute for Space Research, the Committee on Earth Observation Satellites and the Copernicus Atmosphere Monitoring Service.

Based on satellite data used by MARS, it is not possible to confirm the presence of minimal methane emissions at a given location. Rather, this data can confirm the absence of emissions at levels higher than a given satellite's detection limit, which varies based on the technology, ground conditions and the weather.

UN environment programme | International Methane Emissions Observatory

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