

AZERBAIJAN (AZE_S_007)

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 October 2024

 **SOURCE ID**
AZE_S_007

 **COUNTRY**
Azerbaijan

 **COORDINATES**
40.23141°, 50.92397°

 **SECTOR**
Oil & Gas

 **SOURCE TYPE**
Offshore Production

 **TOTAL NUMBER OF PLUMES DETECTED**
3

 **DATE OF FIRST DETECTION**
5 July 2024

 **DATE OF REPORTED MITIGATION**
30 September 2024

 **ESTIMATED TOTAL VOLUME OF EMISSIONS**

6,000 tonnes

 **SAME CLIMATE IMPACT AS**

~115,000 cars

DRIVEN FOR A YEAR

DETECTION & ACTION

THE CAUSE AND THE SOLUTION

The emissions resulted from venting of associated gas due to pressure constraints in the offshore gas routing system. The operator installed a new low-pressure gas line, allowing compression of the associated gas instead of venting.

The image shows a plume detected by ASI's PRISMA in Azerbaijan on 5 July 2024. No further emissions have been detected at the location since 30 September 2024.

EMISSIONS DETECTED

0 600
 ΔXCH_4 (ppb)

MITIGATION VERIFIED

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.