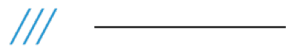




AI Pathways to Energy Sustainability

Tech industry perspective



New York Energy Forum
3 December, 2024



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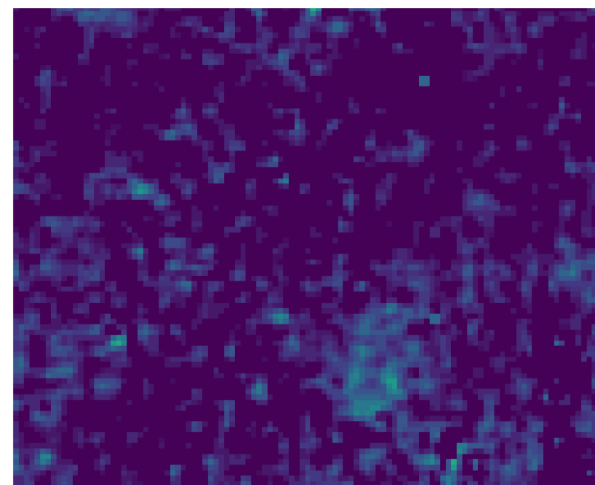
Source-agnostic approach ensures maximum reliability and high-quality data



- Public and private satellites capture terabytes of raw data every day
- Kayrros collects and analyses this data and provides precise, near-real time insights



Kayrros global map of super-emitters

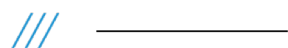


Methane detection in Mexico using GOES-R

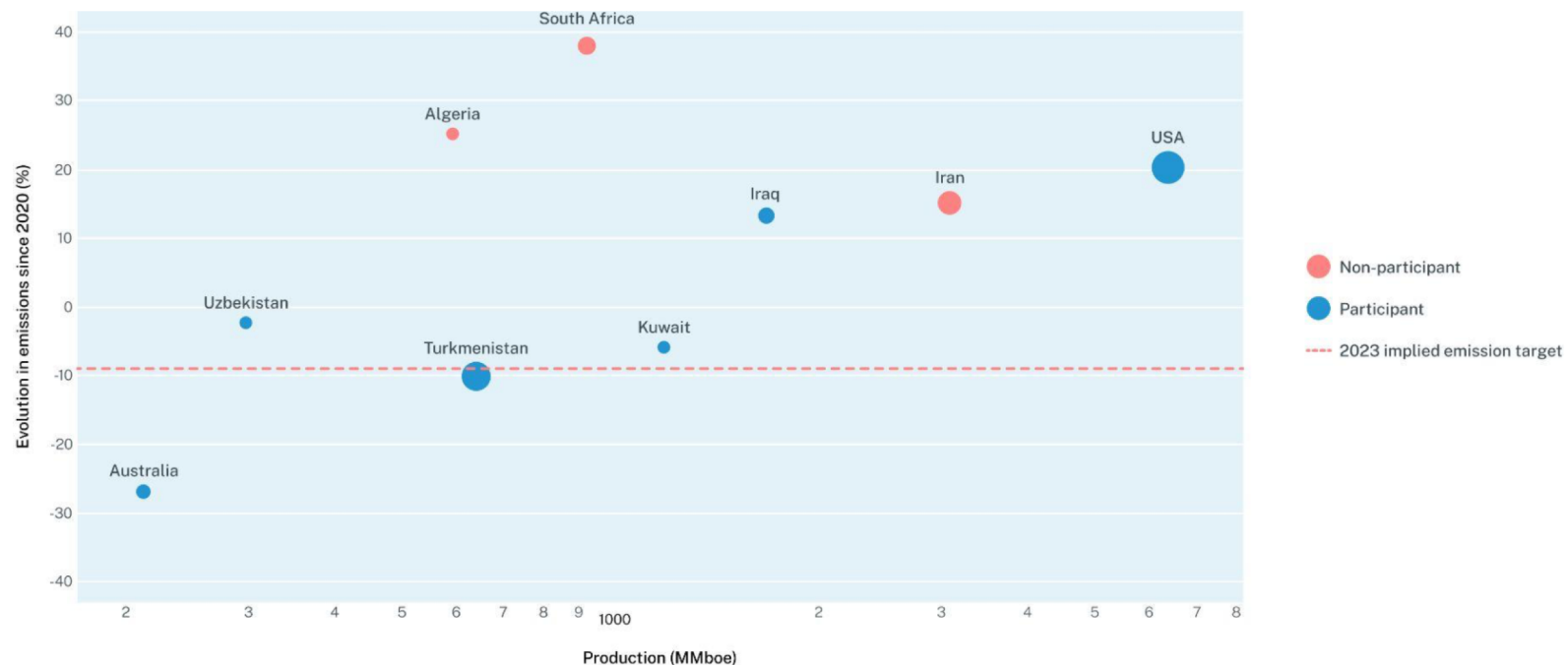
Kayrros' detections in numbers:

- 3000+ super-emitters detected in 2023
- 3 days delay between capturing and making the detection available
- 10+ satellite constellations integrated in Methane Watch

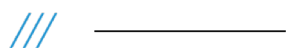
Global Methane Pledge: Progress report



Methane emissions from surveyed countries are continuing to rise overall, not decline

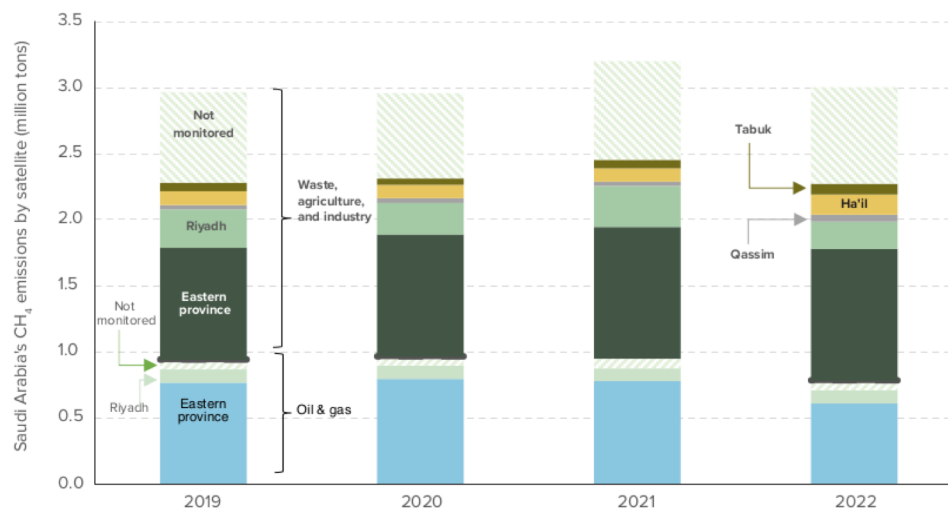


Tech solutions to support GHG reduction national initiatives



Kayros inventories support different various business lines:

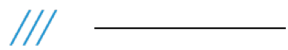
- International frameworks (UNFCCC, GMP, ...)
- Policy Development
- Resource Management
- Research & Education



Comparison of total CH₄ emissions in Saudi Arabia between sources, Kayros data in Kapsarc Discussion Paper 29

Methodology based on Sentinel-5P wind rotation approach: <https://www.science.org/doi/10.1126/sciadv.abn9683>
and on basin-wide methane inversion (paper featuring Kayros members): <https://www.sciencedirect.com/science/article/pii/S2589004223024525>

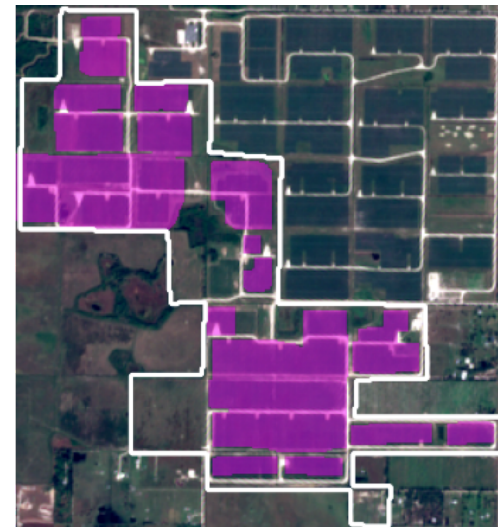
... or to track the energy transition



Make better investment decisions to accelerate the transition to a new energy system.

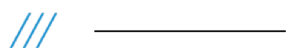


Crude oil onshore storage in a refinery in China



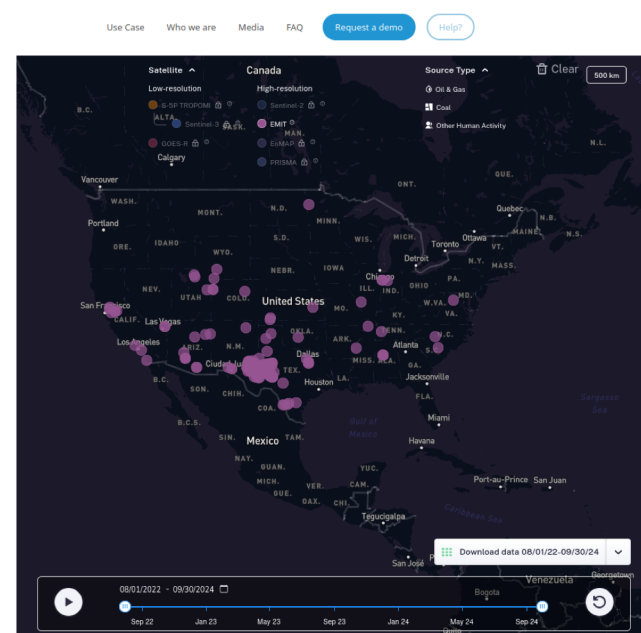
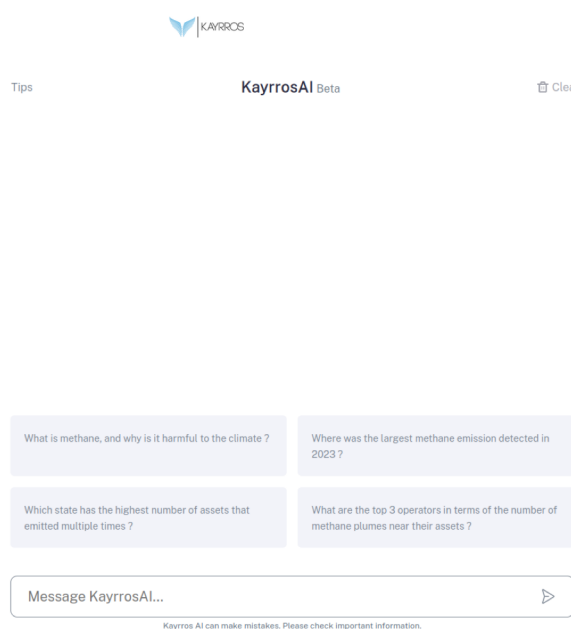
Panel installation monitoring in Arkansas

LLMs to play an important role in Energy Sustainability



Transform complex methane data into actionable intelligence with a specialized chatbot powered by state-of-the-art language AI.

Get help attributing emissions to operators and analyzing trends.





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