

Case study



Methane Monitoring with DATA.AIR

Wide Area Coverage - Less Time

CASE STUDY

APA GROUP

“ Enhancing methane loss measurement from our gas transmission infrastructure was an FY23 focus area in APA’s Climate Transition Plan. APA engaged GHGSat to conduct a methane leak survey to identify any methane emission sources and to test new technologies, supporting enhanced methane measurement — to better understand sources and scale of our methane emissions ”

Adapted from
APA Climate Report 2023



SOLUTION
GHGSat [DATA.AIR](#)



INDUSTRY
Oil and Gas



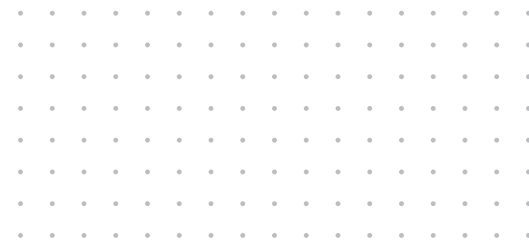
LOCATION
Australia



APA Group, a leading Australian energy infrastructure company, owns and operates a diverse \$22B portfolio of energy assets. APA contributes to Australia's supply of renewable energy and grid-firming gas.

They are proactive in addressing methane emissions as part of their Climate Transition Plan **APA committed to reduce operational methane emissions by at least 30% by FY30** compared with FY21 base year in their Climate Transition plan.

In line with this commitment, APA sought to comprehensively understand and reduce methane emissions from their gas transmission infrastructure.



GOAL

GHGSat was contracted by APA to conduct an aerial survey over APA's three key gas transmission pipelines, including compressor stations and associated infrastructure, using patented imaging interferometer technology.

The primary objectives were twofold:

1. To confirm the absence of significant "super emission" methane sources.
2. To support APA to understand the real-time fugitive emissions and validate the data obtained through correlation with ground-based measurements.

AIRBORNE HIGH-RESOLUTION METHANE MONITORING FOR LOCALIZED EMISSIONS INTELLIGENCE

GHGSat's DATA.AIR uses the company's proprietary satellite technology adapted to aircraft to detect and measure emissions to individual sources enabling prompt and effective mitigation actions.

- Better coverage cost effectiveness than ground and drone measurements.
- Able to detect methane source at 10 kg/hr with a 1m resolution.
- Monitor thousands of sites within the same flight.
- Fully tailored mission.
- Accurate emission-site attribution with very high precision.

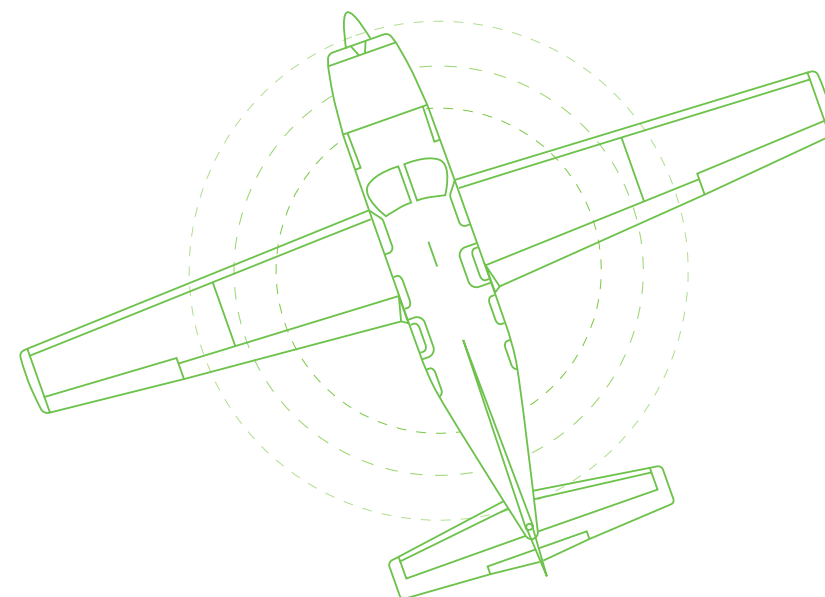


RESULTS

- Detected **zero 'SUPER' methane emissions.**
- Confirmed **absence** of significant emission sources along **3,963 km** of pipelines.

3,963 KM
of pipelines covered

- Conducted aerial survey of approx. **60 flight hours** over APA pipelines, **covering a wide area within a short duration of time.**
- Detected **one incidental emission source** during commissioning activities at an above-ground facility.



Monitor your assets with **DATA.AIR**
Connect with our experts today! →

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