

Autumn 2024

IN FOCUS

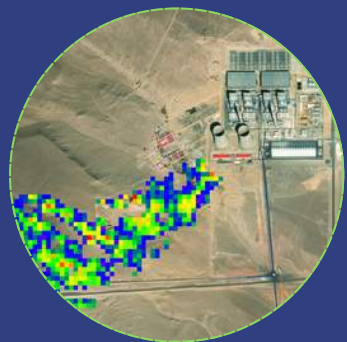
A look into GHGSat's latest emissions data



#1 Tied with SpaceX and Rocket Lab in Fortune's **2024 Change the World** ranking

Unveiled **CO₂ plume images from Vanguard**, the world's first commercial satellite

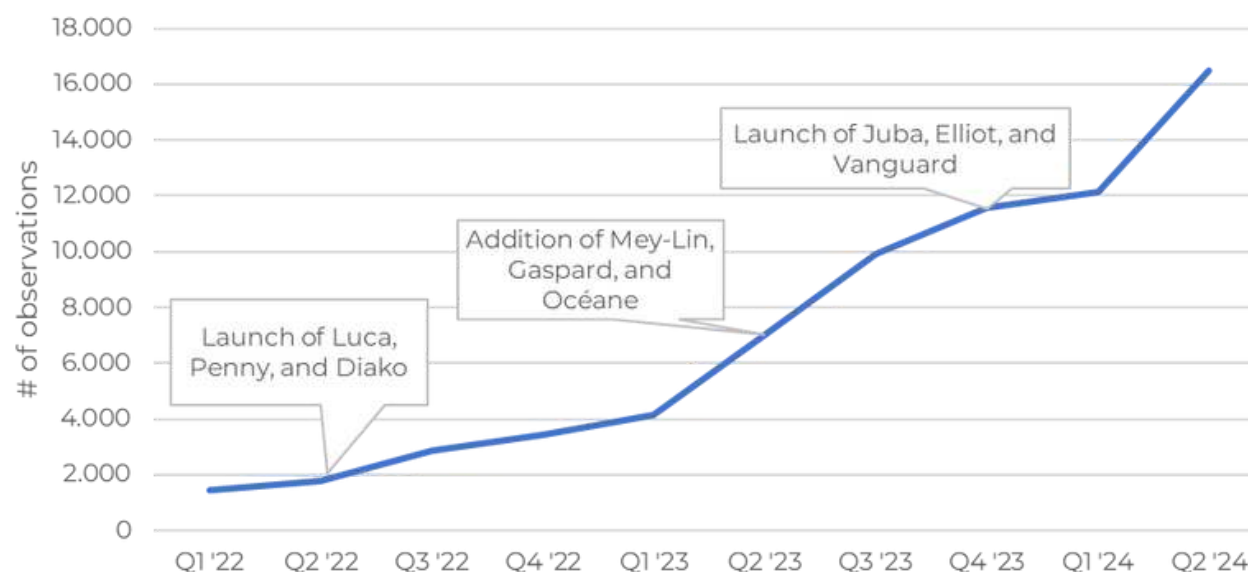
TIME Magazine named Vanguard as **2024 Best Inventions**



Validated by independent experts at **NASA** and **ESA** and in **academia**

More Eyes in the Sky. More Data for Action.

Growth in Quarterly Observations



2.4x

Number of observations in Q2 2024 (vs. Q2 2023), making progress towards our goal of **measuring greenhouse emissions at every industrial site worldwide, every day.**

Satellites' Role in Landfill Emission Monitoring

Compared to facilities in other industries, landfills tend to emit more persistently, with GHGSat detecting **at least one emission per landfill site monitored in approximately 7 out of 10 visits**. Many countries and/or regions, such as South Korea and Europe, have passed regulations to address this issue, while others, such as the U.S. and Canada, have regulations in varying stages of development.

Satellite data can play a critical role in both **cost-effectively and credibly bringing transparency** to these efforts, particularly as governments and operators move beyond modelled emissions to incorporate actual emission measurements. Moreover, by better understanding their emissions profile, operators can right-size emissions solutions, such as for landfill gas capture and commercialization.

Spotlight on Super-Emitters

Super-emitters have increasingly come into the spotlight in recent years, and especially with the EPA's new super-emitter regulation for Oil & Gas, which came into effect in May 2024. Unlike emissions from sectors like waste management and coal mining, super-emitters in the Oil & Gas industry are often fugitive, meaning that they are unexpected, resulting from some failures or malfunction. **In 2023, for those U.S. oil and gas sites where we observed an emission, more than 1 in 7 of them emitted at least 33% of the time upon revisit.** With wide area coverage and frequent revisits, satellites are uniquely positioned to pinpoint where and when persistent emissions occur, catching leaks swiftly to enable faster action.

Breaking News:

GHGSat Announces Rapid Expansion, Nearly Doubling its Fleet of Methane Emissions-Monitoring Satellites by 2026
[Read More](#)

Data today for driving future emissions reductions.

- NASA Awards Task Order to GHGSat Under the Commercial Small Satellite Data Acquisition Program [Read more](#)
- GHGSat Announces Expanded Agreement with ESA's Earthnet Third-Party Mission Program [Read More](#)
- GHGSat Tops Fortune's 2024 Change the World List [Read more](#)
- Mitsubishi Electric Corporation, MUFG Bank Ltd., Satellite Data Service Planning Corp., and GHGSat Sign Partnership to Visualize Greenhouse Gas Emissions Using Satellite Data [Read More](#)
- GHGSat Named One of Fastest-Growing Technology Companies in North America [Read More](#)

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Our Winter 2024 emissions report is coming soon. [Get it first](#) with the GHGSAT newsletter.