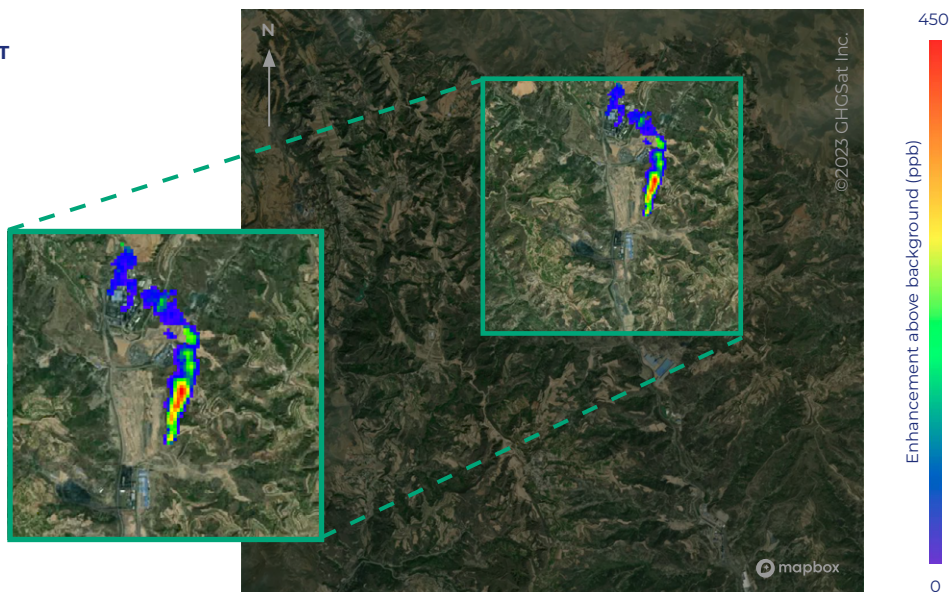


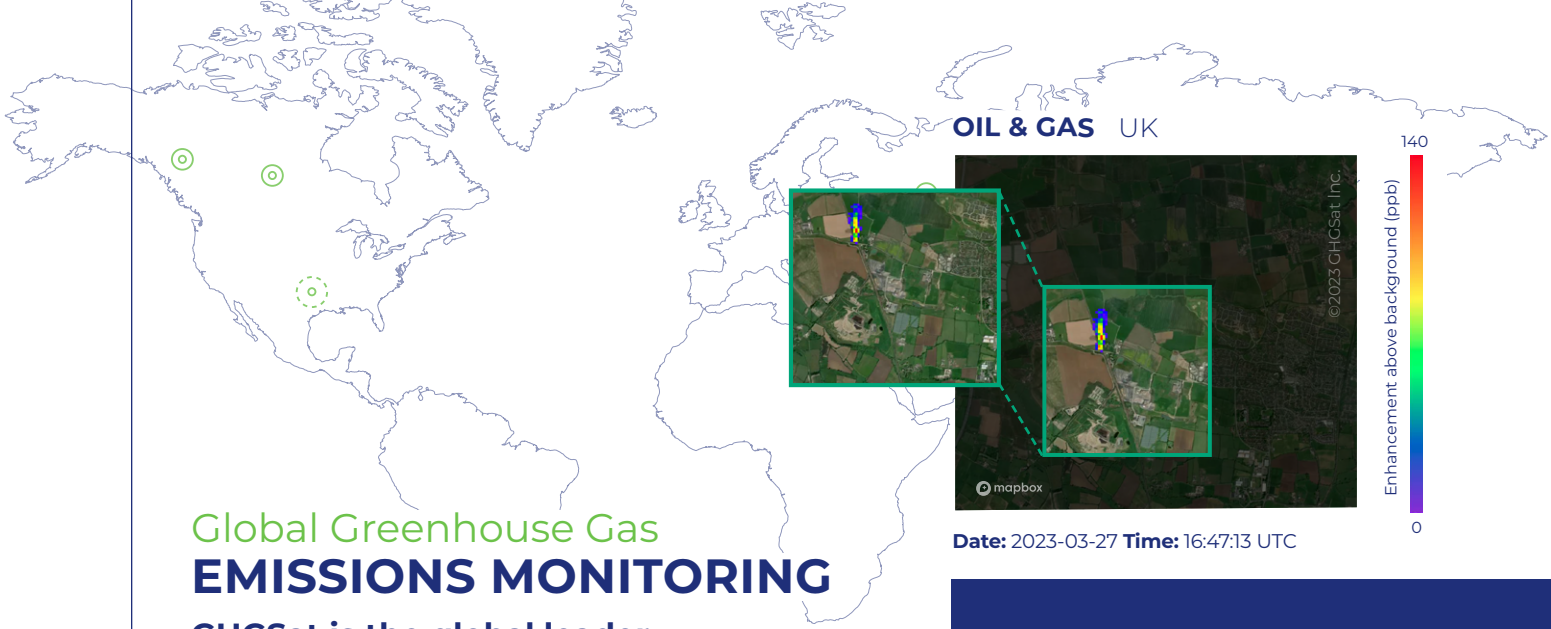
CH₄ MEASUREMENT
Coal Mining

Date:
2023-05-16



GHGSAT: GLOBAL EMISSIONS MONITORING AT A GLANCE

Founded	2011
Founder & CEO	Stephane Germain
Team	120+ employees
Status	Private
Investment	US \$126M in raised capital to date
Headquarters	Montreal, Canada
Global Locations	Ottawa, Calgary, Houston and London
Website	ghgsat.com
Satellite Constellation	GHGSat operates the only commercial constellation of greenhouse gas monitoring satellites. With 12 satellites in orbit including our first dedicated CO ₂ sensor.
Aircraft	3 AV sensors in operation
Sectors	<ul style="list-style-type: none"> ✚ Oil & Gas ✚ Mining ✚ Waste Management ✚ Agriculture ✚ Power Generation ✚ Governments ✚ ESG for Financial Markets



Global Greenhouse Gas EMISSIONS MONITORING

GHGSat is the global leader in high-resolution greenhouse gas monitoring from space.

GHGSat believes space provides the ideal vantage point to examine the impact of human activity on our planet and to collect unique data to drive action today.

The company's tiered system-of-systems combines proprietary satellite and aircraft data with world-class analytics to provide the best coverage of methane emissions, helping operators and governments take effective measures to reduce emissions.

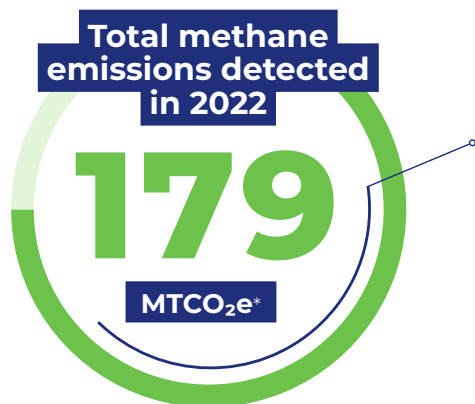
YEARS AHEAD

GHGSat is **the only organization that operates a constellation of high-resolution satellites** capable of pinpointing industrial sources of methane emissions.

We are the first to launch a commercial satellite for monitoring industrial sources of carbon dioxide - which is also the first high-resolution CO₂ sensor in space.

[Discover our constellation](#)

CHANGING THE WAY we see greenhouse gas emissions



38.6 M

Emissions measured equate to 38.6 million cars driving on the road for a year.

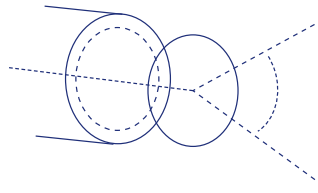
+2M

Our satellite constellation will take over 2 million facility measurements in 2023.

With proven and trusted technology, **GHGSat** makes a difference today for **a better future.**

PATENTED SENSOR TECHNOLOGY:

How it works



GHGSat developed its unique [patented sensor technology](#) based on a Wide-Angle Fabry Perot (WAF-P) interferometer, originally invented in 1899. When light passes through the atmosphere, some of it gets absorbed at particular wavelengths by gases.

Every gas has its own wavelength or signature. GHGSat's interferometer measures the absorption at frequencies unique to methane and carbon dioxide in high resolution from space and translates it to a concentration.

Detecting **emissions sources 100x smaller** than some satellites.

Attributing emissions sources with **100x higher precision** than other satellites.

Combining both in **satellites 100x smaller** than those in orbit.

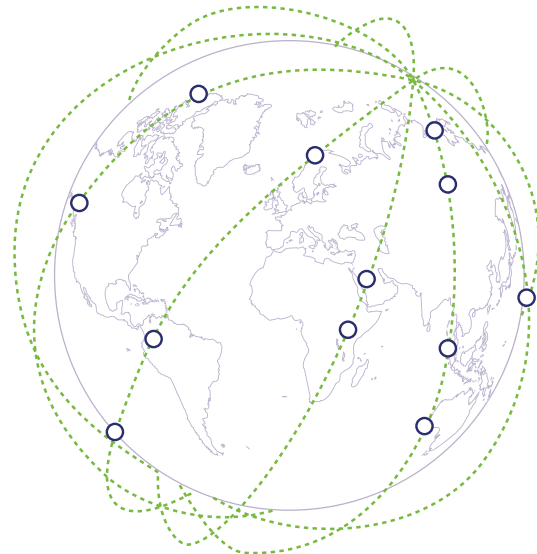
By detecting and identifying sources of emissions, GHGSat provides the data and intelligence that companies need to take action for a cleaner planet.

CLIMATE ACTION CONSTELLATION

Scaling fast for daily site revisit

GHGSat has the only high-resolution greenhouse gas monitoring satellite [constellation](#) operational today. This system is the only one able to detect and measure methane emissions at the facility level.

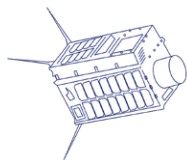
- **Spatial resolution:** ~25 m class (~82 ft)
- **Field of view:** 12 km x 12 km (7.5 miles x 7.5 miles)
- **Size:** Comparable to a microwave oven
- **Weight:** 15 kg (33 lbs)
- **Orbit:** Sun-Synchronous Polar
- **Altitude:** ~500 km (~310 mi)



2016

CLAIRE

GHGSat technology demonstrator satellite.



2020

IRIS

2021

HUGO

GHGSat's commercial methane detecting satellite fleet is growing rapidly increasing measurement capacity and revisit frequency worldwide.

2022

LUCA PENNNY DIAKO

2023

MEY-LIN GASPARD OCÉANE JUBA ELLIOT

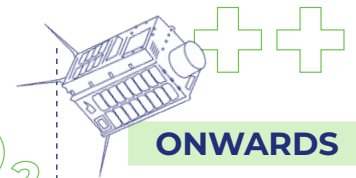


2023

VANGUARD



First high-resolution instrument dedicated to industrial carbon dioxide emissions.



ONWARDS

Successful investment rounds and growing revenue streams has put us on track to rapidly scale the constellation to 40+ satellites across methane and carbon dioxide.

IN
2022

500,000 + sites

Our constellation of high-resolution satellites observed over 500k industrial sites worldwide.

2M km²

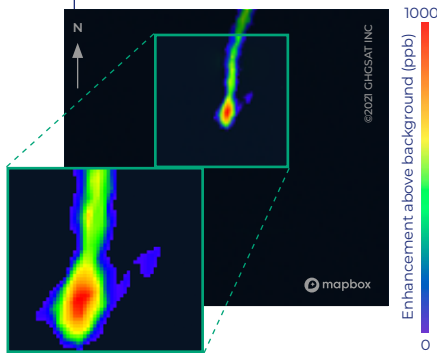
Our satellites surveyed close to 2M km² 83% more than in 2021.

69 countries

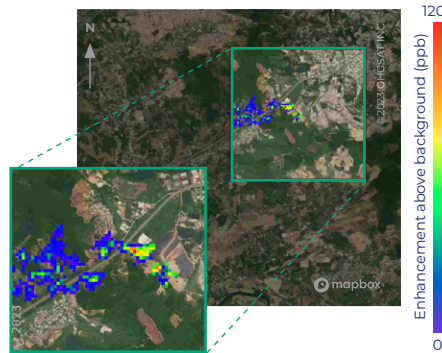
GHGSat satellites measured emissions in 6 continents.

HIGH-RESOLUTION EMISSION DATA

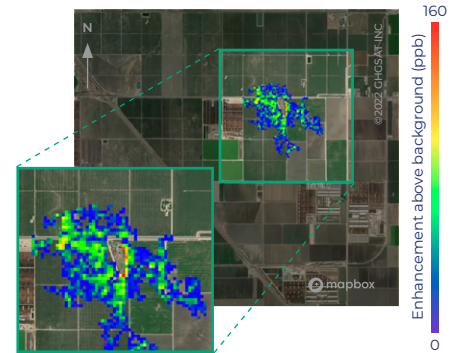
GHGSat's growing constellation delivers accurate, frequent and reliable data and year-round greenhouse gas emissions intelligence to customers worldwide.



Oil & Gas
Nord Stream
Date: 2022-09-30
Time: 12:56:32 UTC



Waste Management
Vietnam
Date: 2023-05-27
Time: 06:07:37 UTC



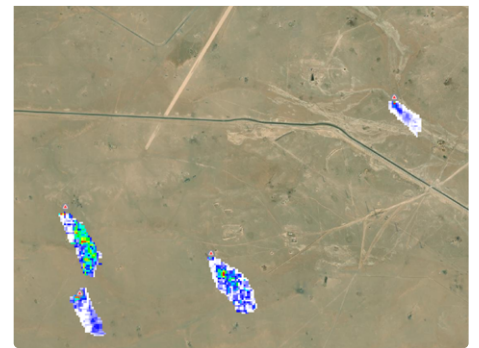
Agriculture
USA
Date: 2022-03-02
Time: 17:44:38 UTC

BEST IN CLASS

GHGSAT Leads Field in Independent Study

Five independent teams analyzed data of blind controlled releases of methane emissions from a range of satellite systems. GHGSat's satellite, the only satellite focused solely on methane tested in the research, showed the best accuracy and the lowest detection threshold of the satellite systems.

[Read more](#)



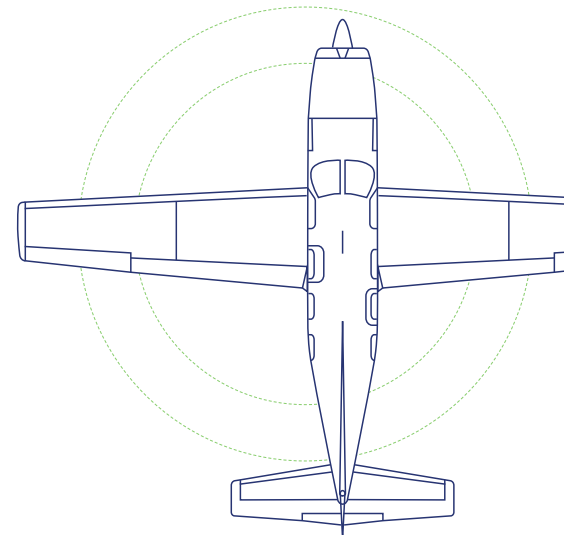
AERIAL EMISSIONS MONITORING

GHGSat is the only emissions monitoring firm to deploy airborne instruments, with matching satellite sensors in orbit, working together in a tiered system.

Aerial data and orbital data provide comprehensive coverage of emissions for industrial operators.

Airborne instruments are currently in operation and have completed surveys in major shale plays in North America and monitoring campaigns in Europe and Australia.

[Discover DATA.AIR](#)



SPECTRA

GHGSAT

The first emissions intelligence platform to support both high-resolution data and third-party datasets, SPECTRA brings together all of GHGSat's products and services to allow for easy emissions management and data sharing across organizations.

Commercial SPECTRA subscriptions offer features and functionalities for customers to access and analyze both GHGSat and third-party data to take action on mitigation strategies and emissions risk.

- A unique global methane map based on updated weekly methane concentration averages.
- 2 km x 2 km grid scale - highest-resolution data publicly available.
- Track back function to April 2018.
- Gallery of methane measurements taken from across the world.

[Explore SPECTRA with your free account](#)

FUNDING

To date, GHGSat has raised in capital over

US \$126M

Investors include Investissement Quebec, Fonds de Solidarite FTQ, Climate Investment, BDC Capital, Japan Energy Fund and more.

[Learn more](#)

SCIENTIFIC COLLABORATION

GHGSat works closely with global organizations to improve transparency and accuracy in measuring methane emissions from space. The company is the first to provide high-resolution data to the International Methane Emissions Observatory (IMEO), a UN programme. GHGSat has been awarded [Third Party Mission](#) status from the European Space Agency and has been contracted by [NASA's](#) Commercial SmallSat Data Acquisition Programme.

[Learn more](#)

AWARDS



**Deloitte Canada's Technology
Fast 50 & 500 Winner 2023**
Deloitte [press release](#)



Global Cleantech 100 - 2022
[2022 Report](#)



**Fast Company World
Changing Ideas Award
for Climate 2023**
GHGSat SPECTRA [press release](#)



**Geospatial World
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**Fast Company Most
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**Cleantech Global 100
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Future 50 2022
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PRESS RELEASES

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IMAGE LIBRARY

Download concentration maps
and images of our satellites [here](#).

VIDEO LIBRARY

Find out more about our [constellation](#),
our technology, and our methane
detection capabilities.



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