

California Satellite Methane Project Fact Sheet

The California Air Resources Board's California Satellite Methane Project (CalSMP) uses the latest science and satellite-based technology to identify highly concentrated methane plumes across the state. Satellites capture images of methane leaks, which appear as plumes trailing away from the source of emissions.

GOALS



Detect methane sources



Support timely action to reduce emissions



Protect California communities

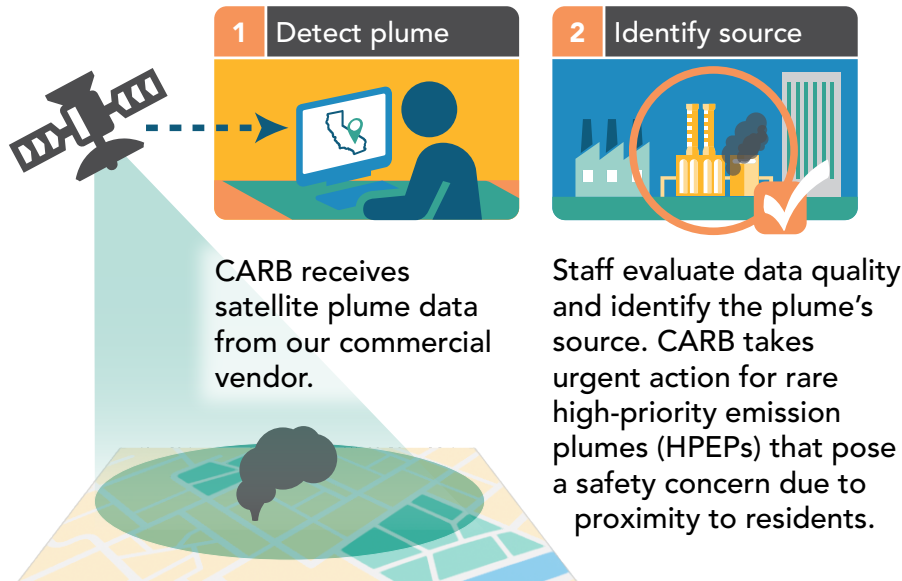


Share data publicly



Raise global awareness of CARB's efforts through data transparency

HOW IT WORKS



KEY STATISTICS, MAY-DEC 2025

83

successful scans

~110,000

square kilometers scanned

Prevented emissions from the oil and gas sector alone are equal to taking **~19,000** cars off the road for one year

>\$800,000

natural gas losses avoided

>\$3 million

societal benefits delivered from CH₄ climate impact

HOW SATELLITE DATA CAN HELP



Reduce emissions and slow climate change by fixing leaks



Find and fix rare safety hazards quickly



Support existing regulations targeting methane emissions



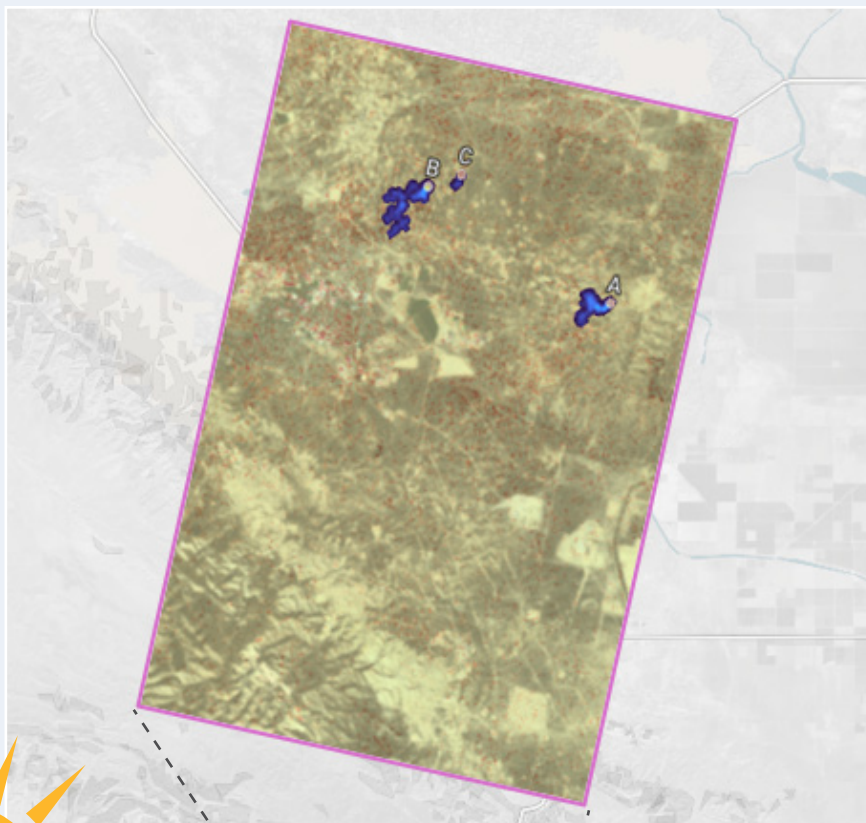
Set a global example showing the effectiveness of using satellite data to reduce methane emissions

LEARN MORE



California Satellite Methane Project:
arb.ca.gov/calsmp

SATELLITE METHANE PLUME IMAGE



Example of a satellite methane plume imaging scan over an oil and gas field in central California.

Other types of satellites exist and have their own important roles in methane detection, but plume imaging technology is most useful for pinpointing large, single sources of methane.