

PORTS & TERMINALS

D-fenceline™ Sea

A tailored perimeter-monitoring solution for port and terminal boundaries — including sea gate entry points — for a safer environment across the port, its workforce, and the surrounding community.

THE SETTING

Where Industry Meets the Waterfront

Approximately 80% of global goods — including chemicals — move through seaports and chemical terminals, where any disruption or shutdown carries significant operational and financial impact. The same high volume and diversity of cargo also creates real environmental risk: emissions from vessels, including the use of high-sulfur fuels, and potential leaks during loading, unloading, and storage can affect operations, workers, and nearby communities.

D-FENCELINE SEA

What the System Does

Continuous, real-time monitoring at the boundary — turning emission events into early, source-located alerts before they cross port lines.

Vessel Sulfur Screening

Screen incoming vessels for IMO MARPOL Annex VI sulfur compliance, flagging unauthorized high-sulfur fuel use and emissions from ships at berth or in transit.

Hazardous-Leak Detection

Detect leaks of hazardous materials from cargo, containers, and storage during loading, unloading, and handling operations.

Continuous Perimeter Monitoring

Real-time monitoring along the boundary helps ensure hazardous emissions do not cross port lines undetected.

Real-Time Source Location

Source-location algorithms combine multi-point concentration data with meteorological analysis to pinpoint emission sources as they occur.

One unified platform. D-fenceline Sea integrates open-path FTIR, visual cameras, and meteorological sensors into a single, user-friendly interface — configured to each terminal rather than a one-size-fits-all install.

One Port, Three Platforms

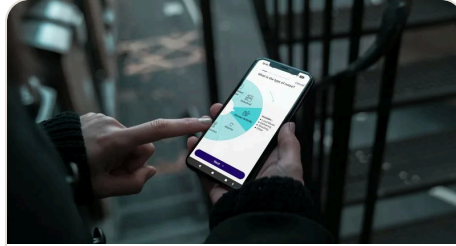
Port operations sit at the intersection of industry and community. Each Atmosfir service addresses a distinct part of that footprint — the terminal boundary, wide-area methane visibility, and structured hazard reporting from the people who work there and live nearby.



PORT & TERMINAL MONITORING

D-fenceline™ Sea

Tailored boundary monitoring — vessel sulfur screening, hazardous-leak detection, and real-time source location across the perimeter and sea gate entry points.



HAZARD REPORTING

HaZapp™

A mobile platform for structured environmental hazard reporting from employees or the community — GPS-tagged complaints with photos and timestamps, in a format EHS teams can act on.



SATELLITE MONITORING

SatLeak™

Satellite-based methane super-emitter detection across LNG terminals, gas-handling infrastructure, and connected pipelines — supporting NSPS and OGMP 2.0 reporting.

WHERE ATMOSFIR DELIVERS VALUE

What Operators Get

- Faster detection and response to hazardous-material emission events — improving safety and security.
- Cleaner air for port surroundings and adjacent communities.
- A healthier work environment for port personnel.
- A stronger public-relations posture through transparent, data-backed reporting.

Visibility From the Boundary to the Basin

D-fenceline Sea at the terminal boundary. HaZapp for workers and harbor neighbors. SatLeak across LNG and gas-handling infrastructure. Each service stands on its own; together they give a port operator visibility from the boundary to the basin.

Port Authorities

Terminal Operators

LNG & Gas Handling

Chemical Terminals