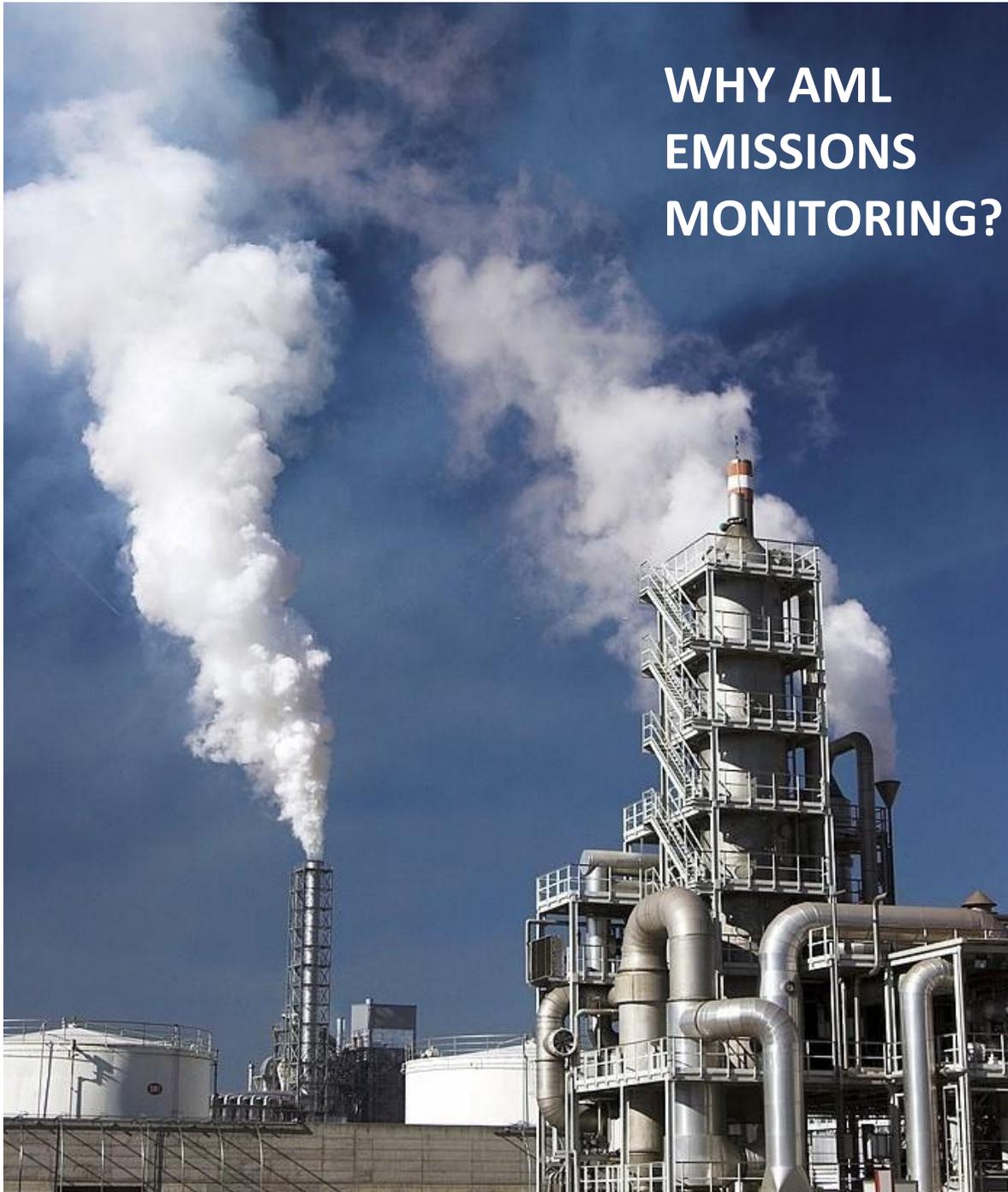




From data to reliable information



**WHY AML  
EMISSIONS  
MONITORING?**

*An Integrated Software Solution*

# The Race to Net Zero Emissions

Companies are adopting a “net zero” emissions strategy, as the world races to decrease the impact of greenhouse gases on the climate and the planet, itself. This has brought about numerous regulatory controls, including environmental audits to measure emissions and consequential penalties/fines for noncompliance. The strategy starts with monitoring potentially harmful gases and assorted chemicals emitted as byproducts from many industrial activities.

That is where HINT adds the most value via our advanced measurement capabilities, alongside predictive and analytic data processing, to help with decision-making to ultimately eliminate the noxious emissions that produce air pollution.



*Real-time  
environmental  
monitoring to  
avoid fines and  
penalties*

## A Suite of Emissions Monitoring Tools

HINT offers three software tools specifically designed to support your Emissions Monitoring program: AML-CEMS, AML-PEMS, and AML-AQMS. These tools contribute to environmental accountability and compliance objectives, helping you meet strict regulatory requirements. They have proved successful in installations spanning power generation, petrochemical, cement, waste incineration, mining, metallurgy, pulp and paper, and general manufacturing applications.

The software can be used standalone or as a part of an AML-CEMS, AML-PEMS, and AML-AQMS packaged solution to improve your environmental performance by:

- Monitoring emissions in real time
- Estimating and analyzing air pollution data
- Automating regulatory report preparation
- Managing environmental audit risks
- Ensuring environmental regulatory compliance
- Aligning with corporate sustainability policies and procedures

# How it Works

Our robust data analysis, handling, and reporting software features are designed to meet all types of industrial process monitoring requirements.



## AML-Continuous Emissions Monitoring System (CEMS)

The AML-CEMS application stores, analyzes, visualizes, and reports environmental data from a variety of sources. The emissions are monitored on a continuous basis (or can be set to run intermittently) and measured against local governmental regulations. It assists with meeting complex air quality requirements worldwide, including Swiss OAPC, US EPA part 60/75, EN 17255, KSA RCER and PME, Alberta CEMS code, and Canadian 1/EP/PG7.

## AML-Predictive Emission Monitoring System (PEMS)

The AML-PEMS application delivers reliable, real-time emission estimates based on historical and process data from several types of stationary sources (e.g. natural gas turbines, gas compressors, boiler stacks, and more). It leverages advanced mathematical or statistical models, using process parameters (such as pressure, temperatures, and flow) to predict the most common air pollutant emissions—NOx, SO2, CO, CO2, etc. It complies with the same environmental agency mandates as AML-CEMS to meet air quality requirements.

## AML-Air Quality and Management System (AQMS)

The AML-AQMS application collects and processes air quality data and meteorological parameters, which are stored in a central server location for use in a range of analytical and reporting tools for managers and authorities. These parameters include wind speed and direction, rainfall, temperature, and pressure, as well as air pollutants around a given city, region, or industrial facility. The information helps with the control of air quality and the development of measures to reduce pollution.

# System Benefits

HINT's integrated data management platform enables each of the Emissions Monitoring software apps to leverage the power of AML 4, so you can seamlessly visualize and report on emissions-related KPIs, while also analyzing trends over time. Furthermore, these flexible products can be fully integrated with various instruments, data loggers, and other information management systems.

Additional benefits include:

## Remote Access & Monitoring

A consistent interface provides a standardized way to connect people, processes, and technology from anywhere, anytime.

## Reliability

A distributed architecture built upon the proven, reliable AML 4 platform eliminates single points of failure, reducing maintenance costs.

## Scalability

The scalable architecture allows the software to monitor multiple data sources with ease. Process data from each source will be collected separately in a different database, and the central server will allow you to view the data individually or compare it side by side.

## Ease of Use

An intuitive, touchscreen user interface allows easy navigation to efficiently find the right data and quickly generate reports. Full customization and multilingual options are available as well to maximize end-user productivity.

## Certification and Security

These applications are certified under MCERTS Standard for Continuous Emissions Monitoring Systems. They also follow the latest Cybersecurity practices for network communication; data acquisition, storage, and analysis; and can function as an integral part or independent of your network.

# Business Value

AML Emissions Monitoring software applications deliver immense value to your business sustainability efforts, in particular air quality control. Advanced functionality can cover multiple locations and sensors, while allowing users to add or modify new equipment from an easy-to-use web interface. The flexible, modular architecture, designed by industry Subject Matter Experts, can be configured for unique environmental, engineering, and manufacturing needs.

## Results

After implementing the solutions, we see that companies have better understanding about emission data in one easy and user-friendly application. With better insights in the data, it becomes easier to qualify to the rules and regulations and therefore avoid fines.

### AML-CEMS

- 50% reduction of capital costs
- 20% reduction of operation and maintenance costs
- 15% increase in data availability
- 3% reduction of environmental footprint

### AML-PEMS

- 99% increased emission data availability
- 20% reduction of operation and maintenance costs
- 50% reduction of lifecycle costs
- 3% reduction of environmental footprint

### AML-AQMS

- 99% increased emission data availability
- 20% reduction of operation and maintenance costs
- 50% reduction in lifecycle costs
- 3% reduction of environmental footprint

Contact a HINT representative or visit our website to learn more about AML Emissions Monitoring capabilities.

<https://www.hint-global.com/products/aml-emission-monitoring>



*Product Brochure*

Improve Efficiency through **H**uman **I**nterest in **N**ew **T**echnology