AMS
Asset Management System

Scheduling | Tracking | Quality Assurance

Ecotech

ACOEM Group

TOGETHER WE CREATE SOLUTIONS THAT SHAPE THE FUTURE

A Quality Approach to Asset Management

Increasingly, industry is required to perform real-time monitoring of pollutants (either CEMS and/or ambient pollution monitoring) in order to support their licence to operate. The availability and reliability of data is of utmost importance for owners and operators of air quality monitoring stations managing air quality concerns.

Increasing importance is being placed on quality assurance and quality control with regards to the data received from air quality monitoring stations.

It is a proven fact that a systematic, pro-active, quality based approach to operation, maintenance and calibration of a monitoring system directly enhances the quality of the data collected.

Due to compliance and public pressure, data is required to be gathered in a systematic, transparent and scientific defensible manner. This is in line with acceptable standards, methods and procedures within a quality approved system.

In Australia, it is a minimum that the operation, maintenance and reporting activities should be performed in accordance with an approved quality management system and Australian Standards. In some cases NATA accreditation may be required.

The key criteria, as stated by Clean Air Asia, for robust air quality management systems and data collection include:

- Ability to properly plan and implement an AQ monitoring network to a compatible international standard
- Ability to plan and implement a QA / QC process
- Ability to disseminate AQ monitoring data and analytical results to stakeholders
- Ability to utilise the AQ monitoring results to improve AQ control policy
- Ability to provide manpower and financial resources to sustain the AQ monitoring system.

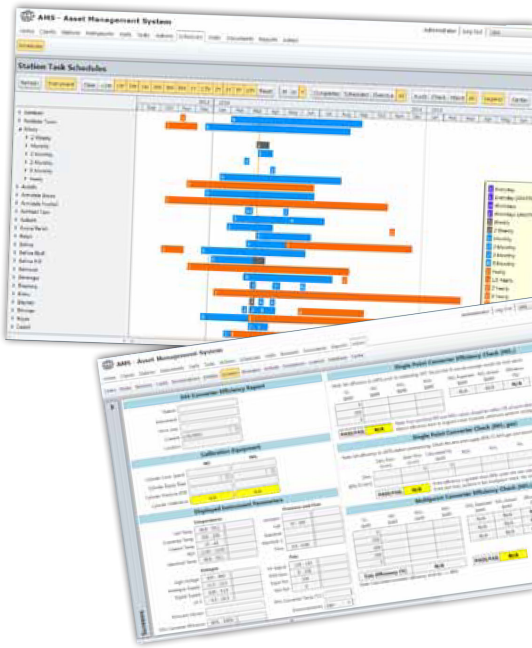
ECOTECH's AMS provides a bespoke solution to these challenges and criteria for success.

AMS provides a critical tool to manage maintenance scheduling down to task level as well as a central solution where all relevant calibration and maintenance records can be stored.

This greatly facilitates any internal or external audit process and improves access to records for data validation. The system can be set up to comply to manufacturers recommendations, AS / NZ standards and NATA requirements. The network operator is therefore assured that all relevant maintenance and calibration activities are covered and performed in a timely manner, ensuring optimal data capture rates. This ability is particularly relevant in today's time poor world allowing for the facilitation of efficient management of any environmental monitoring network to free up valuable time but more importantly avoiding non-compliance penalties.

AMS also assists with the following applications:

- Project Management
- Contract / delivery accountability
- Expenditure control
- Quality Assurance
- Health & Safety compliance, and
- Inventory management.



How can AMS help?

1. DOING IT RIGHT

AMS framework is used to define a systematic approach to address the preventative maintenance and calibration requirements of monitoring equipment in accordance with supplier recommendations, applicable standards and quality systems.

2. STAYING ON TRACK

AMS enables real time tracking of maintenance and calibration activities versus scheduled maintenance requirements in a visual format. This allows the user instantaneous vision of maintenance team performance.

3. DATA CAPTURE

AMS allows for asset management through a pro-active maintenance and calibration approach. AMS also facilitates reactive faults resolution, thereby ensuring maximised valid data capture.

4. DATA RELIABILITY

All preventative maintenance records, calibration records and faults resolution records are stored in AMS. This allows for trouble free data validation of collected data. Records are fully auditable.

5. QUALITY ASSURANCE

AMS acts as a fully auditable, centralised repository for all maintenance & calibration records, test equipment calibration records, inventory management etc. This ensures all Quality System requirements are met.

Who should use AMS?

CLIENTS

The maintenance plan provides a clear outline of the work that is agreed on, and the schedules provide an overview of progress as well as justification for invoices / expenditure (routine maintenance, as well as non-routine parts and servicing costs).

CONSULTANTS / PROJECT MANAGERS

Help to design the work requirement and manage progress on the monitoring project, as well as provides records to investigate any data issues.

SUB-CONTRACTORS / TECHNICAL STAFF

Help to understand the scope, timing and extent of maintenance required, and provide a repository for recording activities using QA system.

QA STAFF

Provide auditable records in line with QA system.

REGULATORS / PUBLIC

Provide assurance that the stations are being properly maintained to produce the best possible outcomes in terms of data availability and reliability.

CUSTOMER SUCCESS

ECOTECH is in the process of implementing an AMS solution at a large smelting operation. This is a joint effort to manage preventative and unscheduled maintenance tasks and resources in accordance with Australian Standards and ECOTECH's NATA accreditation. Early feedback is that it has been very well received with potential expansion forecast.

AMS is also being installed as part of a large tunnel construction project in Australia. The system will manage the maintenance and calibration tasks of all air quality and meteorological instrumentation deployed on this project, ensuring that all maintenance and calibration tasks are documented in line with ECOTECH's NATA quality assurance processes.

ABOUT ECOTECH: Together we create solutions that shape the future
For over 40 years ECOTECH has pioneered innovative solutions in environmental monitoring for air, water, gas, noise, vibration, blast, fine particulate and dust. Headquartered in Australia, and certified to internationally recognised quality standards, ECOTECH operates in more than 80 countries, managing and maintaining over 500 real-time environmental monitoring sites consisting of thousands of individual pieces of precision equipment. ECOTECH is part of the ACOEM Group.

ABOUT ACOEM: Reduce your environmental impact
The ACOEM Group is a global leader in providing sustainable solutions for the development of smart cities of the future. It is committed to helping companies and public authorities meet challenges by offering products and services that:

- Prevent and control air, noise and vibration pollution
- Increase the productivity and reliability of industrial machinery
- Contribute to the development of effective, robust & noiseless solutions
- Protect soldiers, sites and vehicles in military theatres of operation.

Across the world, ACOEM's 700+ employees innovate in the measurement, analysis and control of environmental parameters through its 01dB, ECOTECH, ONEPROD, FIXTURLASER, MEAX, VIBRALIGN and METRAVIB brands.

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