



AIR QUALITY SYSTEMS (EA)

Integrated Air Quality Solutions for Africa

Monitoring • Purification • Implementation • Capacity Building

2026

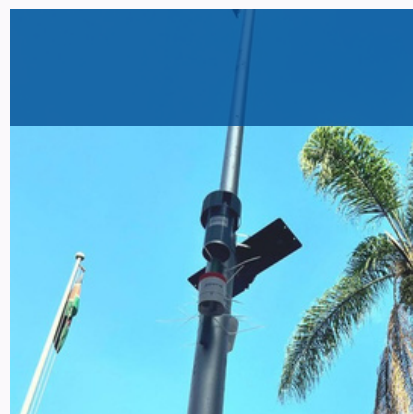
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A Brief Story About The Company



COMPANY OVERVIEW



Air Quality Systems East Africa (AQSEA) is your ultimate partner in delivering end-to-end air quality solutions. We offer a comprehensive range of services, including expert consultancy, installation of advanced air quality monitors, thorough data analysis, and effective implementation and tracking of tailored solutions. Our expertise ensures that we provide not only state-of-the-art equipment but also actionable insights to maintain the highest standards of air quality.

We proudly collaborate with accredited air quality monitoring laboratories, government institutions, and NGOs focused on environmental protection. At AQSEA, our dedication to excellence and strategic partnerships empowers our clients with reliable and precise air quality data, enabling them to make informed decisions for a healthier and more sustainable environment.

PRODUCTS & SERVICES



Procurement, Deployment & Maintenance of AQ Monitors

- We leverage the strategic partnerships with different manufacturers to source for Air Quality monitors that meet specific client needs for deployments.
- We also offer end-to-end installation services, whether for stationary/ portable/ mobile/ indoor/ outdoor devices.
- We offer periodic calibration, repairs and even data analysis services on request.



Consultancy and Assessment services

We conduct Air quality assesment and baseline studies for projects and collect and clean air quality monitoring data for cities and smart city initiatives withing the region.



Regulatory compliance consultancy and formulation

- We help our clients understand and comply with local and International air quality regulations.
- Working with Government policy makers on air quality regulations.



Health Impact Assesment Studies

We do evaluations for potential health impacts of air quality on specific populations or regions in partnerships with regulatory bodies like NEMA and KEMRI.



Industrial Emissions Monitoring

- We help our clients understand and comply with local and International air quality regulations.
- Working with Government policy makers on air quality regulations.



Urban Planning Support

We provide air quality data and expertise for urban planning support in smart city initiatives.



Maintenance and Support Services

- We do routine maintenance and calibration of equipment deployed.
- Tech support and troubleshooting



Training and capacity Building

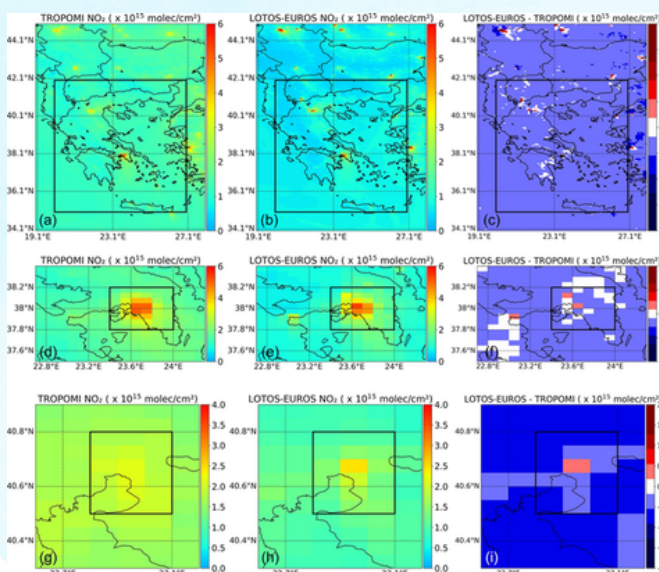
We achieve this through the following:

- Building local expertise. Ensuring our clients' local/ installed professionals are equipped with knowledge and skills enabling them to take ownership of their air quality monitoring and management.
- We offer Comprehensive training solutions. From the basics to advanced data analytics and systems maintenance



Training on quantifying the effects of pollution on health

- In partnership with USIU-Africa and TNO, AQSEA offers a certified training program that equips professionals and researchers with practical tools for evidence-based decision-making in air quality and climate-health policy.
- The course follows a three-level sequential pathway, building from core concepts to advanced application. A key component is hands-on predictive modelling using LOTOS-EUROS Lite, enabling participants to actively contribute to local and national air quality strategies and integrate scientific knowledge into policy.

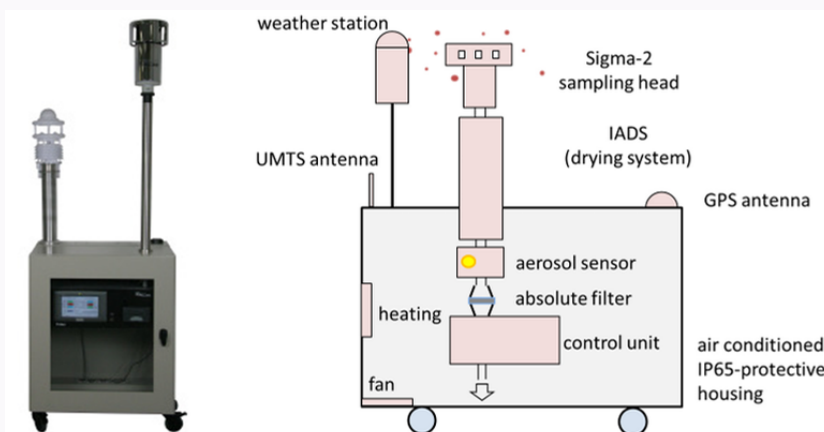
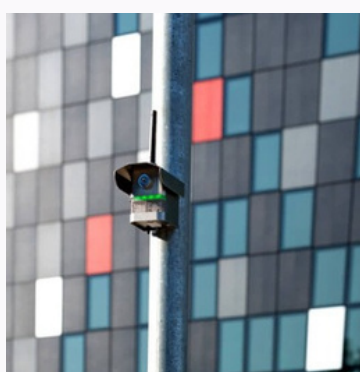


OUR PRODUCTS PORTFOLIO



Our products include

- Passive samplers
- Low cost Monitors
- Air Purifiers
- Building Data Collection Platforms
- Reference grade monitors
- E-Samplers
- Indoor Monitors
- Noise Monitors
- Mobile Monitors



Tiered Product Categorization Framework

Category	Target User	Typical Application	Instrument Grade	Output	Example Types
Level 1: Indicative	Households, schools, NGOs	Awareness, screening	Basic	Indicative data	IAQ monitors, portable purifiers
Level 2: Mid-tier	Consultants, institutions	Compliance, projects	Semi-reference	Reportable	Passive samplers, e-samplers, HVAC filtration
Level 3: Reference / Research	Regulators, research bodies	Regulatory monitoring, research	Reference-grade	Certified data	BAM, TEOM, CEMS, HEPA systems, integrated networks

Indoor Air Quality (IAQ)

Tier	Instruments	Parameters	Key Features	Typical Use Cases
L1	Portable IAQ sensors	PM _{2.5} , CO ₂ , Temp, RH	Wi-Fi, plug-and-play	Households, classrooms
L2	Handheld analyzers, portable stations, Kane UK	PM, VOC, CO ₂ , NO ₂ , NO, CO, CO ₂	Data logging, calibration	Offices, buildings, Kitchen, flueless gas, Regulatory grade
L3	Horiba, UPas V2.1+	PM, CO, NO ₂ , VOC, O ₃ , TVOCs, NO _x , CO ₂	Reference-grade, telemetry, Gravimetry	Research, compliance

Ambient Air Quality

Tier	Instruments	Parameters	Key Features	Typical Use Cases
L1	Low-cost sensors (LCS) Purple air, miri air,	PM _{2.5} , PM ₁₀	Affordable, indicative	Community networks
L2.0	Medium Grade- Sensors	PM _{2.5} , PM ₁₀ , NO ₂ , SO ₂ , VOC, NH ₃	Near reference grade readings	Research, government, community surveys
L2.2	Passive samplers, e-samplers	PM, NO ₂ , SO ₂ , VOC, NH ₃	Portable, campaign monitoring	Baseline surveys
L3	BAM, TEOM, Horiba AP series	PM, gases	Reference-grade, real-time	Regulatory networks

Stack Emissions Monitoring

Tier	Instruments	Parameters	Key Features	Typical Use Cases
L2	Portable stack testers	CO, NO _x , velocity	Manual isokinetic	Periodic compliance
L3	Horiba CEMS, Oxis systemsIn-Situ TDLAS stack analyzers	CO ₂ , CO, NO _x , SO ₂ CO ₂ , CO, NO _x , SO ₂	Continuous, regulatory	Power plants, industry

Air Purification & Filtration Solutions

Complementing our monitoring capabilities, we offer air purification systems tailored to both indoor and outdoor air quality improvement — from simple portable purifiers to advanced molecular filtration for critical environments.

Tier	System Type	Filtration Level	Features	Typical Applications	Example Solutions
L1	Portable air purifiers	Basic particle filtration (HEPA-like, carbon)	Plug-and-play, low maintenance	Homes, schools, offices	Desktop & portable purifiers
L2	HVAC filters, HEPA filters	ISO & EN classified filters	Integration into building systems	Offices, malls, hospitals	Camfil HVAC panel & bag filters
L3	Molecular filtration & industrial air cleaners	HEPA H13–H14, molecular media	High capacity, cleanroom standards	Healthcare, industry, labs	Camfil molecular filters, air cleaners, cleanroom units

Key features of Camfil-inspired offerings:

- Particle + gas-phase filtration
- Energy-efficient designs
- Retrofit compatibility with existing HVAC systems
- Supports IAQ compliance in sensitive environments

Key Brands & Technology Partners

Brand	Focus Area	Notable Technology
Horiba	Reference-grade gas analyzers & CEMS	AP series, CEMS
Met One	PM monitoring	BAM series
TEOM	PM mass measurement	Regulatory reference
Aeroqual, PurpleAirMiri AirAirqo	Low-cost community sensors	IAQ & ambient
Camfil	Filtration & air cleaning	HVAC, HEPA, molecular
Passam Ag	Passive sampling	NO ₂ , SO ₂ , VOCs
Miri Air (Climate In Africa)	Low-cost sensors	
Kane	Hand held regulatory grade equipment	Handheld

AIR QUALITY INFRASTRUCTURE & PROJECT IMPLEMENTATION

We don't just sell equipment — we deliver working systems.
Our project implementation services include:

01

Infrastructure procurement & deployment

Specification & sourcing of monitoring and purification systems

- Sensor network deployment
- Site surveys & siting plans

02

Installation & commissioning

- Physical installation of reference and indicative units
- Data network setup & telemetry integration

03

Operation & maintenance

- Routine calibration & servicing
- QA/QC procedures
- Remote monitoring support

04

Capacity building & training

- On-site training for institutions and regulators
- SOP development
- Data interpretation & reporting

05

Regulatory & compliance support

- NEMA / WHO guideline alignment
- Baseline studies & EIAs
- Emissions reporting frameworks

UPCOMING MAJOR PROJECTS

Project	Location	Scale	Technology	Year	Partners
Dar es Salaam Network	Tanzania	15 LCS nodes	Urban sensor network	2025	City Council+ C40cities+AQS
Wellcome Trust Project (WP2)	Nairobi Metropolis	48 LCS + 1 reference station	Health–climate co-benefits study	2026–2029	TNO, KEMRI, CEMA (UoN), Clean Air Africa, MoH

KEY PROJECTS

2024 JKUAT Colocation study

We undertook a comprehensive air quality evaluation focusing on NO, BTEX, SO, PM 10 and PM 2.5 to determine the correction factors and average deviation by use of diffusion tubes hand in hand with active monitors.



2024 Nairobi County Air Quality Study

In collaboration with the environment and climate county officials we mounted advanced monitoring equipment across predetermined locations in Nairobi. This initiative is an extension of our ongoing study with JKUAT, further solidifying our role in driving air quality improvements.

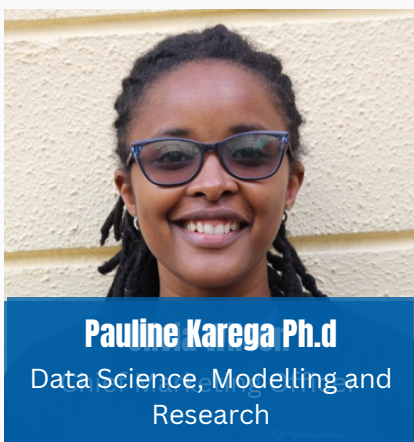
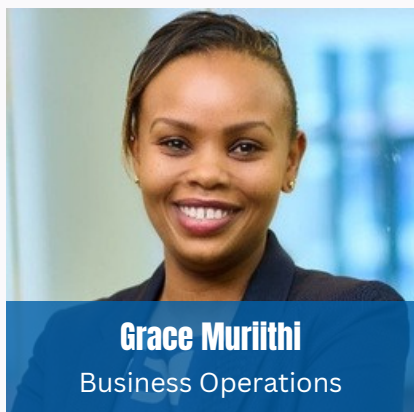


2025 Nairobi County/ Clean Air Fund Deploying a Low-Cost Sensor Network For Nairobi's Air Quality Management

we are proud to showcase our commitment to enhancing environmental health through innovative projects. In partnership with Nairobi City County and supported by the Clean Air Fund, we are deploying the city's first comprehensive air quality monitoring network. This initiative aims to provide real-time data, empower informed policy-making, and contribute to the sustainable management of Nairobi's air quality for the well-being of its residents.

OUR TEAM

Our leadership team at Air Quality Systems East Africa (AQSEA) drives our commitment to excellence in air quality monitoring. Our three directors—overseeing operations, technology, and strategic partnerships—ensure efficient management, technological advancement, and vital relationships. Supported by our proactive Business Development Manager, who explores new markets and strengthens client ties, this team collectively upholds our mission and delivers exceptional results.



CLIENTS & PARTNERS

Our extensive network includes collaborations with government institutions, esteemed research centers, independent companies, and leading universities. These strategic partnerships empower us to leverage collective expertise and resources, ensuring robust and innovative solutions.

HORIBA

**CLEAN
AIR
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University-Africa**
Education to take you places

TNO

**ACCESS SENSOR
TECHNOLOGIES**
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Research Unit



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