



Air quality and environment services

Tackling atmospheric pollution to create greener, smarter and sustainable businesses

WE PROVIDE COMPREHENSIVE UNDERSTANDING OF YOUR EMISSIONS THROUGH EVIDENCE-BASED ADVICE AND MODELLING FOR EFFECTIVE AIR QUALITY MANAGEMENT

AIR POLLUTION
FOOTPRINT
PARTNERSHIP

Air pollution and
sustainability reporting

INDUSTRIAL
EMISSIONS

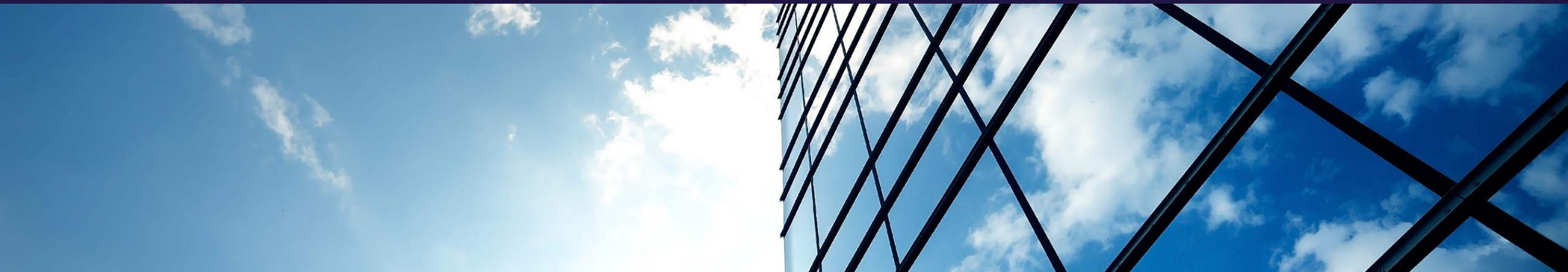
Management and
compliance

AIR QUALITY
ASSESSMENTS

Planning and
development

MONITORING

Emissions and
exposure





AIR QUALITY AND SUSTAINABILITY REPORTING

Air Pollution Footprint partnership

Free to use online platform that broadens corporate GHG reporting and improves ESG rating

The tool is built and managed by Ricardo, with support from the Clean Air Fund and Impact on Urban Health. All three organisations are working to create a future where everyone breathes clean air.

Why use it?

- Promotes a pioneering reporting framework that incorporates air pollution emissions into standard greenhouse gas reporting
- Providing information on air emissions and improvement actions can improve ESG rating and investor confidence
- Builds transparency and consumer trust

What is the process?

- Gather data: review data collected as part of GHG reporting activities and gap fill
- QA data: ensure completeness and accuracy of data
- Enter data into tool: automated built-in checks
- Results: review summary footprint certificate

Why us?

- Deep knowledge in supporting implementation and validation
- Transaction support services (due diligence, expert witness, owner's engineer)
- Regulatory compliance
- Technology implementation
- Capacity building, communications and behavioural change





BENEFITS OF USING THE TOOL

EQUANS Case study:

Equans (previously Bouygues Energies & Services) used the APFP tool to provide information on their emissions and sustainability actions to improve their rating.

They gained valuable insight and generated enlightening reports using the APFP tool.

Benefits of using APFP Tool:

- Modelling emission reduction scenarios and data visualisation
- Increase transparency of ESG reporting
- Increase understanding of air pollution emissions and impact of sources
- Important tool for emission and cost reduction evidence

Data collection and reporting:

Pollutants

NO_x
PM_{2.5}
PM₁₀

Sources

Transport
NRMM
Heat & Power

Estimated Outputs

Emissions (kg)
Damage costs to health &
Economy (£)



INDUSTRIAL EMISSIONS

Management and compliance

INDUSTRIAL EMISSIONS REPORTING

We provide businesses with a comprehensive understanding of your emissions, identifying and quantifying the key sources, and offering expert interpretation and advice.

Why do this?

- Air quality assessments for permit applications, planning applications & risk assessments
- Continuous Emissions Monitoring System (CEMS)
- Emission limit value evaluations
- Emission abatement techniques

How can Ricardo help?

- Detailed air quality modelling of existing and proposed sites and sources to ensure compliance & no adverse health or habitat impacts
- CEMS data analysis to Best Available Technique Associated Emission Levels (BAT-AEL) & provide recommendations
- Undertaking site visits allows for recommendations and improvements

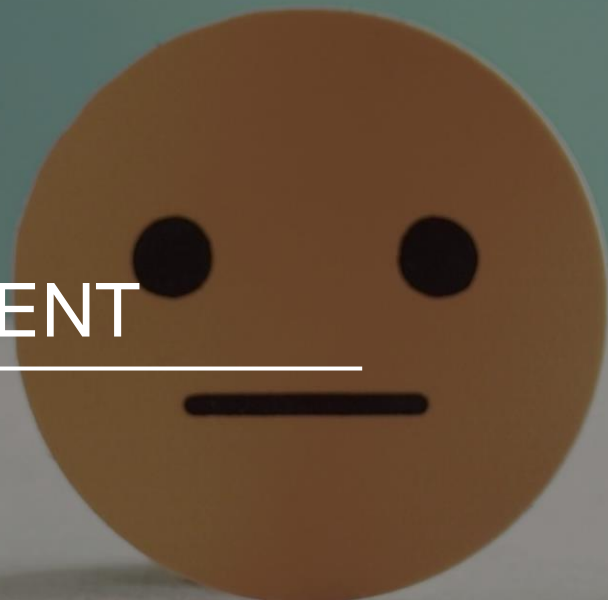
Benefits of working with us

- **Compliance assurance:** Avoid legal issues and penalties
- **Emission reduction:** Improved environmental performance and savings
- **Operational optimisation:** Enhanced emission control and management
- **Innovation:** Adoption of cleaner and innovative technologies to reduce emissions and costs



AIR QUALITY ASSESSMENT

Planning and development



AIR QUALITY ASSESSMENTS

Ricardo's comprehensive range of air quality assessment services support clients worldwide throughout the planning application and permitting processes. We also provide specialist air quality assessment services as part of Ricardo's wider Environmental Impact Assessment (EIAs) team.

Why do this?

- EIA, DCO and Impact assessment planning applications for infrastructure, residential and commercial developments
- Air quality is a crucial factor in planning decisions
- Local, regional and national planning policy compliance
- Understand if a development, or multiple developments will have an adverse effect on air quality
- Assessment of the impact of construction, development and operational phases of the development

How can Ricardo help?

- **Simple:** quantify impacts through use of published data
- **Detailed:** use of air quality modelling to quantify impacts
 - Existing baseline
 - Future baseline
 - Future with development
 - Future with development & mitigation
 - Impact of construction & demolition
 - Cumulative impact within area
 - Local assessments – for example, Air quality neutral assessment in London

Benefits of working with us

- **Compliance:** Adhere to environmental regulations and avoid legal and project delays
- **Cost savings:** Identify cost-effective strategies, preventing expensive retrofits or modifications
- **Sustainable development:** Support sustainable projects that minimise poor air quality and contribute to long-term environmental goals



AIR QUALITY MONITORING

Emissions and exposure



AIR QUALITY MONITORING

Providing bespoke air quality monitoring solutions for over six decades. Our work provides the bedrock for many national air quality monitoring networks, enabling us to be ideally placed to deliver tailored air quality monitoring solutions for clients in the public and private sector.

Why do this?

- Compliance where monitoring is required (planning or permitting)
- Occupation health and exposure
- Corporate Social Responsibility (CSR) and community engagement about your impact

How can Ricardo help?

- Implement comprehensive data correction & QA/QC process
- Air quality sensor procurement and maintenance
- Reporting of sensor data with ambient air quality and workplace exposure limits
- Understand the real-world contribution of your vehicle fleet to urban emissions
- Odour monitoring and modelling

Benefits of working with us

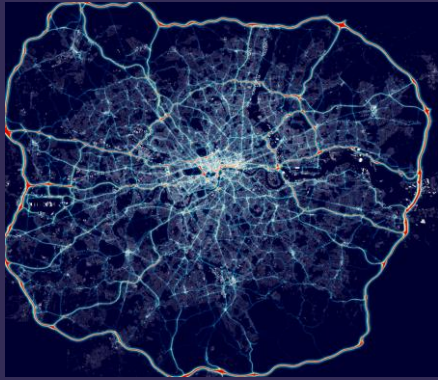
- **Early hazard detection:** Monitoring helps identify potential hazards in the workplace
- **Occupational health compliance:** Helps avoid legal issues, fines, and penalties
- **Brand image and CSR:** Proactive efforts to address vehicle emissions contribute to a positive company perception
- **Incentives and subsidies:** Reducing vehicle emissions can qualify the company for government incentives



DIGITAL SOLUTIONS

Digital innovation providing solutions to complex problems

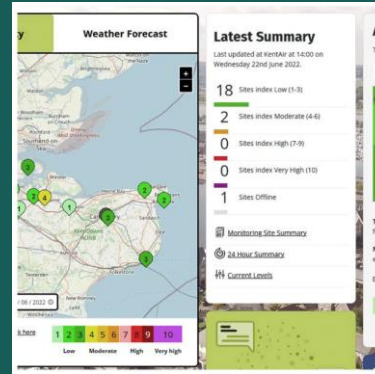




RapidAir® modelling software

Revolutionary computational speed for emissions baseline setting and road traffic scenario testing

Request a demo



Scenario modelling

A bespoke scenario-modelling tool to investigate the likely impacts of different policy scenarios on the emissions of a range of air pollutants and greenhouse gases

Free software demonstration



MODUS data management suite

Robust, reliable and effective management of air quality data, enabling automated data collection, validation, quality assurance and dissemination

Learn more



uBreathe – free app

Gives you instant access to current and forecast air pollution information complete with health advice where and when you need it most.

Download now

START A CONVERSATION ABOUT
ACCELERATING YOUR AIR QUALITY
IMPROVEMENT JOURNEY



info@ricardo.com



www.ricardo.com