Air Quality Innovation at Guy's Hospital and St Thomas' Hospital

Supporting Green Plan action, sustainable supplier selection and air quality goals.

NHS
Guy's and St Thomas'
NHS Foundation Trust

EMSOL

Why emissions control is important.

Air pollution is the biggest environmental threat to health in the UK:

36,000
deaths a year in the UK attributed to poor air quality

1 IN 4
homes in the UK is surrounded by poor air (exceeding the WHO limits

A THIRD
of deaths from strokes, lung cancer & chronic respiratory disease are caused by air pollution

CHALLENGES

The NHS has set ambitious sustainability targets and the Trusts and hospitals responsible for actioning Green plans need help with identifying areas for improvement, monitoring supply chain impact and ensuring their duty of care to patients and staff for a safe and healthy environment are upheld and evidenced.

SOLUTION

EMSOL deploys air quality monitors and camera technology to provide insight on air pollution issues, root cause identification (including supplier impact) mitigation recording and improvement evidencing.

- Pollution Root Cause Analysis
- Supplier Impact reporting
- Credible 3rd party data

Guy's and St Thomas' NHS Foundation Trust required insights to reduce pollution and ensure air quality breaches were identified and attributed to specific activity in real-time. These insights and proactive measures will enable the Trust and their supply chain to take immediate and daily action to improve the local environment.

KEY SUCCESSES

- Most polluting vehicles beginning to be identified
- Specific site pollution problems identified
- Root cause investigation for some pollution events
- Scientific pollution evidence and insight presented
- External environmental factors identified
- Significant product development for NHS product market fit
- Further commercial contract to deploy EMSOL's technology at the sites was agreed.

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