

## Controlled Release Facility



## Supporting development and validation of emissions monitoring technologies

Verify performance, reduce uncertainty, and accelerate your products and services to market

## Controlled Gas Release Facilities

The National Physical Laboratory, the UK's National Measurement Institute, operates unique controlled gas release testing facilities to independently validate emissions monitoring instrumentation, add national measurement traceability, assess measurement uncertainty, and improve performance – helping you to increase customer confidence and grow your business.

**Our expertise and experience in emissions regulations, measurement standard development and instrumental optimisation means NPL is ideally placed to advise and guide you through emissions monitoring system and sensor development.**

### Save money and add value

Demonstrate the versatility and integrity of your product through a fully scalable, transportable and cost effective system that replicates gas emission rates and characteristics as found in industrial and agricultural scenarios.

More cost effective than in-house methods, the facility can be transported to your sites making independent validation of your monitoring easy and more convenient.

### Features of this service include:

- Management of complete instrument validation projects, from choosing a suitable test site to validation test protocol design.
- Globally transportable and deployable, modular facilities for testing products over a variety of emission landscapes by accurately replicating specific source characteristics.
- A wide range of emissions monitoring methods can be validated – Differential Absorption LiDAR (DIAL), Solar Occultation Flux (SOF), Mono/Bistatic open path systems, (Quantitative) Optical Gas Imaging (Q)OGI, Hyperspectral Imaging, (Mobile) Tracer Correlation, Aircraft and Satellite Measurements.
- A wide range of gas species can be emitted (others upon request) – methane, propane (VOCs), carbon dioxide, nitrous oxide, ammonia.
- Large range of release rates g/h to 100 kg/h (gas dependent).



Contact details	Further information
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