

Real Driving Emissions Testing

Millbrook provides accurate and repeatable emissions data on the test track and on the road. Millbrook has Real Driving Emissions 4 compliant hardware, software and processes, as approved by the VCA.

As well as testing against vehicle emissions regulations, Millbrook's Portable Emissions Measurement System equipment is used for emissions development, investigations, vehicle air quality evaluations, research and product benchmarking. Millbrook is approved for testing to procedures such as CVRAS and LowCVP HGV accreditation scheme.

Applications

- Light and heavy duty vehicle, bus, coach and Non-Road Mobile Machinery applications
- Development, certification and in-use compliance testing
- Vehicle and product benchmarking
- Vehicle warm-up characterisation
- Ability to process chassis dyno derived data to output into RDE results
- Characterised driving event impacts, such as speed bumps or accelerations onto motorways
- Multiple approved public road routes and calibration development track-based routes for maximum repeatability and reliability
- Development of compliant RDE routes and routes to meet customer specifications
- Replay RDE routes on Millbrook's tracks with high replication accuracy
- Replay test routes on chassis dynamometer, including gradient simulation



Millbrook Proving Ground Ltd
Millbrook, Bedford, MK45 2JQ, UK
+44 1525 404 242 • info@millbrook.co.uk

www.millbrook.co.uk



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Millbrook can also conduct track based fuel economy trials, which can be performed with or without PEMS units.

Facility Specifications

- Capable of continuously measuring CO₂, CO, NO, NO₂, NO_x, HC, CH₄, NMHC and PN
- EFM range - 10.9-2080kg/h
- 3x Sensors Ecostar and 2x Sensors LDV systems
- GPS logging
- INCA logging capability
- Cold soak start simulation using climatically controlled soak boxes (-20°C to +50°C)
- Dedicated workshop and external parking bays with power connections and hybrid charging
- Dedicated PEMS calibration area
- Equipment internally calibrated and maintained using staff trained by Sensors
- Drivers highly trained in safe driving approaches
- HGV and PSV trained drivers
- Bespoke RDE4 compliant data evaluation software to aid simulation, development and analyse impacts of discrete driving events
- All testing visually recorded to analyse for key events and safety

