

Emissions Analytics to discover the truth of low-carbon commercial vehicles

As part of a two-year project to help understand the benefits of low-carbon commercial vehicles, Emissions Analytics has begun the real-world assessment of dual-fuel commercial vehicle emissions.

Funded by the Department for Transport and the Technology Strategy Board, the aim of the 'Evaluation of Natural Gas Trucks and Refuelling in Swindon' project is to measure the real world running costs of low carbon commercial vehicles which have been converted to dual fuel (diesel and CNG).

Part of a drive to encourage road haulage operators in the UK to use low carbon vehicles, the project will see Emissions Analytics provide its unique laboratory-grade testing, carried out on the road, to capture extensive data and provide a more complete analysis for the project. Containing a total of 41 Euro V vehicles, the project covers multiple vehicle manufacturers and operators.

With a quarterly test cycle, the two year project will test one of each model variant involved in the trial. Each test will be conducted on an identical test route, with the vehicles running once on diesel and then on dual fuel the following day. The route will be driven at the same time each day by the same driver, allowing for an accurate comparison between the different vehicles.

Nick Molden, Founder and CEO of Emission Analytics, outlined the importance of the programme: "Although dual-fuel commercial vehicles work well on paper, it's important that we understand the real world benefits, across the variety of operating conditions they will encounter. Measuring emissions on the road is the only way to quantify those benefits." Working in conjunction with CMS Suptrak, Emissions Analytics is able to align the data generated during the tests with key information gathered from the vehicle itself. This will show in real time when gas is being substituted for diesel and shows the direct effect of the introduction of the gas on emissions.

Assessing the total hydrocarbons, the trials will also assess emissions during urban stop/start driving, steady-speed motorway driving as well as cold start idling and warm start idling. Using data obtained from the PEMs, Emissions Analytics applies a unique analytical model to establish a vehicle's on-road fuel economy.

Emissions Analytics is a recognised global leader in the use of PEMs (portable emissions measurement system), and the data collected from operational testing is typically far more relevant in the real world than the figures obtained from lab-based testing.

Notes to Editors

The Technology Strategy Board is the UK's innovation agency. Its goal is to accelerate economic growth by stimulating and supporting business led innovation. Sponsored by the

Department for Business, Innovation and Skills (BIS), the Technology Strategy Board brings together business, research and the public sector, supporting and accelerating the development of innovative products and services to meet market needs, tackle major societal challenges and help build the future economy. For more information please visit www.innovateuk.org

Emissions Analytics provides on-road vehicle emissions measurement and analysis. Their bespoke services include benchmark tests, product evaluation and real-world running costs. They measure with precision all regulated pollutants, including CO, CO₂, NO, NO₂, total hydrocarbons and particulate matter.

Emissions Analytics' pioneering role as supplier to What Car's break-through True MPG scheme has seen it test over 400 models and makes of passenger cars, providing consumers with an easy and reliable way to assess real-world fuel economy.

As experts in vehicle emissions and fuel consumption, Emissions Analytics supports a range of commercial and publicly-funded organisations. It is currently in partnership with Imperial College, London, studying urban emissions for transport planning and policy.

