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Real-world vehicle fuel consumption gap continues to widen in Europe

Discrepancy between passenger vehicle type-approval test results and in-use fuel consumption and carbon dioxide (CO₂) emissions now at 42 per cent

The average gap between official fuel consumption figures and actual fuel use for new cars in the EU has reached 42 per cent, according to the latest update by the International Council on Clean Transportation (ICCT) to its on-going research into vehicle fuel consumption and CO₂ emissions.

Since 2001, the discrepancy between official measurements of vehicle efficiency and actual performance of new cars in everyday driving has more than quadrupled—a discrepancy that translates into €450 per year in extra fuel costs for the average vehicle. As a result, less than half of the on-paper reductions in CO₂ emissions since 2001 have been realized in practice.

The new study, jointly prepared by the ICCT and the Netherlands' Organisation for Applied Scientific Research (TNO), describes the increasing real-world efficiency gap using systematic statistical analysis. "We analyzed data for approximately one million vehicles from seven European countries, and all data sources confirm that the gap between sales-brochure figures and the real world has reached another all time high," said Uwe Tietge, a researcher at ICCT Europe and lead author of the study. "When we published our first study in 2013, the gap had widened over ten years from roughly 10 per cent to around 25 per cent. Now it has increased to 40 per cent for private cars, and 45 per cent for company cars."

The analysis draws on data from 13 different sources: the user websites spritmonitor.de (Germany), honestjohn.co.uk (United Kingdom) and Fiches-Auto.fr (France), the leasing car service providers Travelcard (Netherlands), LeasePlan (Germany), Allstar (United Kingdom) and Cleaner Car Contracts (Netherlands), the car and consumer magazines AUTO BILD (Germany), auto motor sport (Germany and Sweden), WhatCar? (United Kingdom), km77.com (Spain) and the car club TCS (Switzerland).

“About three quarters of the gap between laboratory test results and real-world driving is explained by vehicle manufacturers exploiting loopholes in the current regulation,” summarizes Dr. Peter Mock, Managing Director of ICCT Europe. For example, manufacturers can decide to specially prepare the vehicle’s tires for testing or to fully recharge the vehicle’s battery before testing—measures that are not forbidden by regulation, but at the same time are not representative of real-world driving. Another quarter of the gap is explained by the deployment of technologies that have a greater effect on fuel consumption during laboratory testing than under real-world driving conditions, such as stop-start technology, and by ensuring that options that tend to increase fuel consumption—such as running the vehicle’s air conditioning— are turned off during laboratory testing.

Manufacturers measure vehicle fuel consumption in a controlled laboratory environment, using a test procedure called the New European Driving Cycle (NEDC). This procedure was developed in the 1980s and was not originally intended to be used for fuel consumption testing. A new and more appropriate test procedure, the Worldwide Harmonized Light Vehicles Test Procedure (WLTP), has been developed through the United Nations and will be implemented in the EU from 2017 onwards.

“The WLTP will cut the gap approximately in half but it contains new loopholes that could lead to the performance gap to increase again in the future,” concludes Dr. Mock. “Further actions are therefore required, in particular on-road testing of fuel consumption and CO₂ emissions under real driving conditions as well as independent surveillance testing of actual vehicles on the road.”

From laboratory to road – A 2016 update of official and "real-world" fuel consumption and CO₂ values for passenger cars in Europe

PDF download:

http://www.theicct.org/sites/default/files/publications/ICCT_LaboratoryToRoad_2016.pdf

The International Council on Clean Transportation (ICCT) is an independent nonprofit organisation founded to provide first-rate, unbiased research and technical and scientific analysis to environmental regulators. The ICCT participants' council comprises high-level civil servants, academic researchers, and independent transportation and environmental policy experts, who come together at regular intervals to collaborate as individuals on setting a global agenda for clean transportation. ICCT was founded in 2005, and has offices in Berlin and Brussels, as well as in the US and China. It is funded principally by private foundations, such as the ClimateWorks Foundation in the US and Stiftung Mercator in Europe.

Contact:

Dr. Peter Mock

Managing Director ICCT Europe

Neue Promenade 6, 10178 Berlin, Germany

Phone: +49 (30) 847129-102

Email: peter@theicct.org

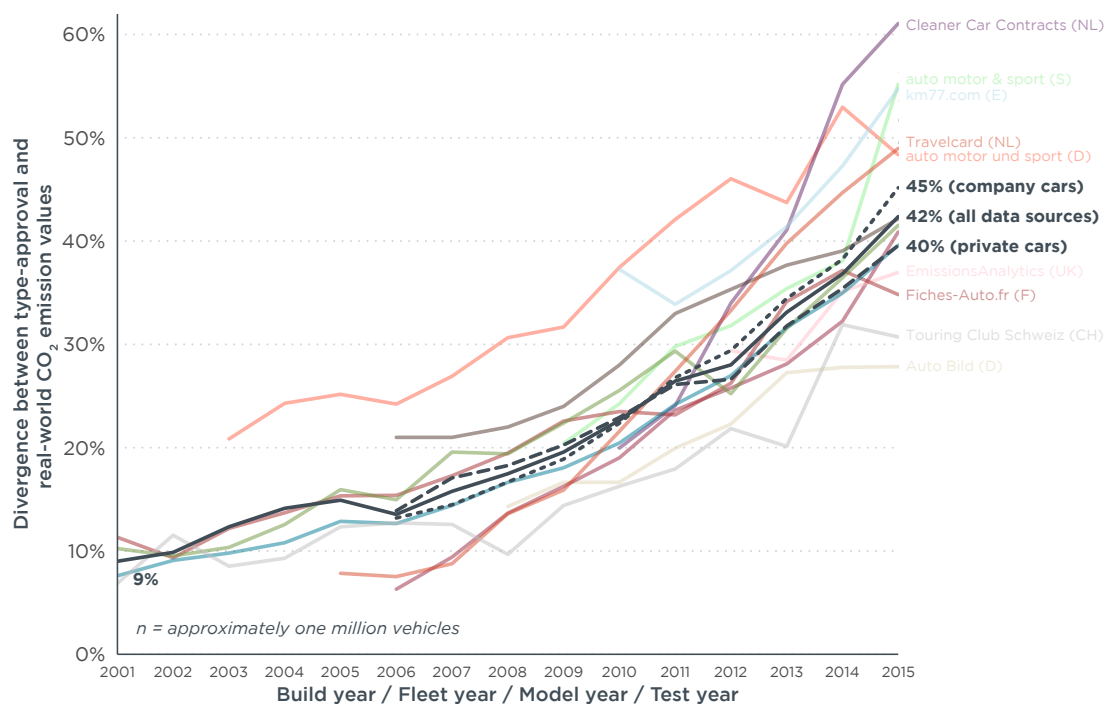


Figure 1. Divergence between real-world and manufacturers' type-approval CO₂ emissions for various real-world data sources, including average estimates for private cars, company cars, and all data sources.

Other contacts on the subject

Netherlands' Organisation for Applied Scientific Research (TNO)

Dr. Norbert Ligterink

+31 (0) 888 668 058

norbert.ligterink@tno.nl

The European Consumer Organisation (BEUC)

Ms. Chris Carroll

+32 (0) 2 789 2754

Chris.Carroll@beuc.eu

Federation International de l'Automobile (FIA) (car clubs' association)

Ms. Laurianne Krid

+32 (0) 2 282 0818

lkrid@fia.com

European Automobile Manufacturers Association (ACEA)

Mr. Petr Dolejsi

+32 2 738 7357

pd@acea.be

Transport Environment (T&E) (NGO umbrella organisation)

Mr. Greg Archer

+32 2 893 0849

greg.archer@transportenvironment.org