

Commission Implementing Decision (EU) 2018/2079 of 19 December 2018 on the approval of the engine idle coasting function as an innovative technology for reducing CO₂ emissions from passenger cars pursuant to Regulation (EC) No 443/2009 of the European Parliament and of the Council (Text with EEA relevance)

Article 1	Approval
Article 2	Application for certification of CO ₂ savings
Article 3	Certification of CO ₂ savings
Article 4	Eco-innovation code
Article 5	Applicability
Article 6	Entry into force
	Signature

ANNEX

METHODOLOGY TO DETERMINE THE CO₂ SAVINGS OF
THE USE OF THE ENGINE IDLE COASTING FUNCTION

1. INTRODUCTION
2. SYMBOLS, PARAMETERS AND UNITS
 - Latin symbols
 - Subscripts
3. TEST VEHICLES
4. VEHICLES PRECONDITIONING
5. ROAD LOAD DETERMINATION
6. DEFINITION OF THE MODIFIED TESTING CONDITIONS
 - 6.1. Definition of the Coast Down Curve
 - 6.2. Generation of the modified NEDC Speed Profile (mNEDC)
 - Figure Illustration of parameters used to generate mNEDC
 - Shift profile generation for vehicles with manual gearbox
 - 1 PM = gearbox in neutral, clutch engaged. K1, K2 =...
7. DETERMINATION OF THE CO₂ EMISSIONS OF THE ECO-INNOVATIVE VEHICLE UNDER...
 - Preconditioning of the vehicle
 - Speed profile
 - Number of tests
8. DETERMINATION OF THE CO₂ EMISSIONS OF THE BASELINE VEHICLE UNDER...
 - Preconditioning of the vehicle
 - Number of tests

9. CALCULATION OF THE CO₂ SAVINGS

Formula 1:

Formula 2:

Figure 2 Sailing curve for baseline vehicle

Formula 3:

Formula 4:

Determination of the Usage Factor

Formula 5:

10. CALCULATION OF THE UNCERTAINTY

Formula 6:

Formula 7:

11. ROUNDING

12. DEMONSTRATION THAT THE MINIMUM THRESHOLD IS EXCEEDED IN A STATISTICALLY...

Changes to legislation: There are currently no known outstanding effects for the
Commission Implementing Decision (EU) 2018/2079. (See end of Document for details)

- (1) [OJ L 140, 5.6.2009, p. 1.](#)
- (2) Commission Implementing Regulation (EU) No 725/2011 of 25 July 2011 establishing a procedure for the approval and certification of innovative technologies for reducing CO₂ emissions from passenger cars pursuant to Regulation (EC) No 443/2009 of the European Parliament and of the Council ([OJ L 194, 26.7.2011, p. 19.](#))
- (3) Commission Implementing Decision (EU) 2015/1132 of 10 July 2015 on the approval of the Porsche AG coasting function as an innovative technology for reducing CO₂ emissions from passenger cars pursuant to Regulation (EC) No 443/2009 of the European Parliament and of the Council ([OJ L 184, 11.7.2015, p. 22.](#))
- (4) Commission Implementing Decision (EU) 2017/1402 of 28 July 2017 on the approval of the BMW AG engine idle coasting function as an innovative technology for reducing CO₂ emissions from passenger cars pursuant to Regulation (EC) No 443/2009 of the European Parliament and of the Council ([OJ L 199, 29.7.2017, p. 14.](#))
- (5) 'Evaluation of the relative coasting distance, usage factors and CO₂ savings for the coasting technology', a study by Directorate-General for Climate Action of the European Commission, <https://publications.europa.eu/en/publication-detail/-/publication/9673ca61-9abc-11e8-a408-01aa75ed71a1/language-en>
The report is based on specific real driving testing conditions and vehicles without the coasting function installed. The results are only representative of the coasting technology potential under specific conditions and can only be considered as a supporting document.
- (6) Commission Regulation (EC) No 692/2008 of 18 July 2008 implementing and amending Regulation (EC) No 715/2007 of the European Parliament and of the Council on type-approval of motor vehicles with respect to emissions from light passenger and commercial vehicles (Euro 5 and Euro 6) and on access to vehicle repair and maintenance information ([OJ L 199, 28.7.2008, p. 1.](#))
- (7) Commission Regulation (EU) 2017/1151 of 1 June 2017 supplementing Regulation (EC) No 715/2007 of the European Parliament and of the Council on type-approval of motor vehicles with respect to emissions from light passenger and commercial vehicles (Euro 5 and Euro 6) and on access to vehicle repair and maintenance information, amending Directive 2007/46/EC of the European Parliament and of the Council, Commission Regulation (EC) No 692/2008 and Commission Regulation (EU) No 1230/2012 and repealing Commission Regulation (EC) No 692/2008 ([OJ L 175, 7.7.2017, p. 1.](#))
- (8) Directive 2007/46/EC of the European Parliament and of the Council of 5 September 2007 establishing a framework for the approval of motor vehicles and their trailers, and of systems, components and separate technical units intended for such vehicles (Framework Directive) ([OJ L 263, 9.10.2007, p. 1.](#))

Changes to legislation:

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