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Connected Electric Vehicle Optimized for Life, Value, Efficiency and Range

GRANT AGREEMENT No. 824295



CEVOLVER – Deliverable Report

D6.2 – Assessment of the vehicle range improvements
for demonstrators developed in WP4 and WP5

Publishable summary

This document reports on the work carried out in “Task 6.2 Assessment of the performance of the demonstrator vehicles in a controlled environment” during the CEVOLVER project. It shall give an overview on the specific details for the testing in a controlled environment as well as the respective results of the technical targets. With this deliverable together with “Deliverable 6.1 Assessment of the performance of the novel functionalities and report of long-range drive”, the developments from prior work packages will be benchmarked in an environment as realistic as possible. In this context Deliverable 6.2 and Deliverable 6.1 supplement each other, where Deliverable 6.1 focusses on the open road-testing activities. Regarding controlled environments, only test benches were used, as the ambient conditions are important to the required tests and this can’t be controlled on a test track. The document reports on the activities regarding the Technical Target 5 - TT_ThermalMngtSaving, Technical Target 6 - TT_RelChargeTimeGain and Technical Target 7 - TT7_Range_Improvement_Low_Temperature. Technical Target 5 focusses on energy savings using advanced control strategies which are software based. Moreover, Technical Target 6 assesses the charge time gains by preconditioning the battery prior to a charging event. Finally, Technical Target 7 evaluates the energy savings due to novel thermal system components including adapted software. While Technical Target 6 directly addresses a reduction of trip time on a 700 km trip, Technical Target 5 and Technical Target 7 focus on energy savings. On the one hand, this enables a higher average velocity or on the other hand a range extension until the next charging stop. The Deliverables 6.1 and 6.2 conclude the project from a development point of view, while Deliverable 6.3 will continue assessing

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Project partners:

#	Partner	Partner Full Name
1	FEV	FEV Europe GmbH
2	BOSCH	Robert Bosch GmbH
3	FORD	Ford-Werke GmbH
5	IFPEN	IFP Energies Nouvelles
6	RWTH	Rheinish-Westfaelische Technische Hochschule Aachen
7	VUB	Vrije Universiteit Brussel
8	UNR	Uniresearch BV
9	I2M	I2M Unternehmensentwicklung GmbH
10	RBOS	Robert Bosch AG
11	CRF	Centre Recherche Fiat

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