

SPEED FOR SME'S

SYSTEMATIC DEVELOPMENT OF PROPULSION SYSTEMS FOR ENHANCED ELECTRO MOBILITY DRIVE TRAINS

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The projects target of "Speed for SME's" is to create a tool for the suppliers of the automotive industry in the field of e-mobility to develop and test components in a shorter and more cost effective way that it was done before. The main focus is on the small and medium-sized companies in the automotive supply industry.

In e-mobility there are two sides to discover: on the one hand the vehicle itself, on the other hand the infrastructure for getting energy from the power grid. So the prototype car in Speed for SME's is divided in a sample of interfaces to put power trains with different drive types (front or rear driven, all wheel drive), lightweighted gearboxes, innovative control units for the e-motors, different battery-modules, communications, future light systems, audio systems for the car sound, etc. together. The prototype car is VW Golf-sized and can be powered up to 300 kW. So the car is ready to be tested under all weather conditions (winter, summer, muddy, dusty, snow, ice) and all terrains. The testing will be done by a team of engineers and drivers, testing the car all day of a year in Central Europe and not on South Africa or at the North Cape like the car manufacturers do.

This is the cheap and effective way developed in this project to test e-mobility modules. To complete this test-programmes a special trailer for the prototype car will be developed, that is able to recharge empty battery packs and to change the whole battery packs of the car up to 500 kg in a very short period of time (< 5 Minutes). All the concepts for these activities are prepared to be transferred in hardware. In the middle of 2014 the car prototype and the trailer are built and ready for testing components in an effective way to come directly to the market, to the consumers.

PROJECT DATA

Funding/€	Total cost/€	Duration
918.204	1.571.747	36 months

Partners	
	J-sigma-b GmbH, AT
	TIC Steyr GmbH, AT
	LKR Leichtmetallkompetenzzentrum Ranshofen GmbH, AT
	Lightweight Energy GmbH, AT
	Smart e-Mobility GmbH, AT
	Lagermax Autotransport GmbH, AT
	Stohl Racing GmbH, AT
	Clusterland Oberösterreich GmbH, AT
	Goodville Consulting GmbH, AT
	EDER GmbH
	Technical Concepts, DE

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