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The Evolution of the eRUF in Collaboration with our Technology Partner Siemens Corporate Technology

The research organization of Siemens (Corporate Technology) is working intensively on the topic of electro mobility, which could become part of its environment portfolio, with 19 billion Euros already contributing a mere 25% of total revenue. The demands made on the electric vehicle and the design of the power network infrastructure play a decisive role. Topics being investigated include, among others, energy generation and distribution, traffic and energy management, smart metering, power electronics, software and sensor technology and of course electric drive train systems, and the recovery and storage of energy. Within the scope of this research, Siemens Corporate Technology has developed an integrated system consisting of a motor/generator, power electronics and an interface with a battery connection for electrically powered cars.

The fundamental ideas that led RUF Automobile GmbH to develop an electrically driven vehicle came from Alois Ruf. The head of the automobile manufacturer from the Bavarian town of Pfaffenhausen had a vision of a simple energy transfer concept: his hydroelectric power plants, which feed 35 million kW hours of electricity per annum into the Germany electrical network, could also propel the eRUF.

The symbiosis of two leading companies – Siemens as a leader in the electric industry and RUF in the automobile industry - will leverage the best possible synergies for the future of electro mobility.

Siemens Corporate Technology has developed an adapted power train for the eRuf "Greenster". Thus, a preliminary version of the concept for the innovative eDrive from Siemens will already be on display in Geneva. While the vehicle to be presented in Geneva is still equipped with a central motor with a power output of 270 kW and 950 Nm [Wort gelöscht] torque, the following version will be produced as a small series with Ruf as a double-motor concept with the innovative integral eDrive. As such, the

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eRUF will be the world's first electric vehicle fitted with a bi-directional network connection, which – without the otherwise necessary additional recharging electronics – is capable to be recharged in less than an hour at a 400-volt power outlet – and can use the same power outlet to feed energy back into the power network if required. The small series planned on the basis of this concept by RUF Automobile is expected to hit the streets in 2010.

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