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Evaluation of possibility of a family car conversion into electric basing on traction characteristics

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Converting the cars being in use into electric cars without a major change in their construction seems to be very promising way of rapid adaptation of the automotive market to ongoing legislative restrictions. In this work, traction characteristics of Syrena 105 family car were elaborated for original S-31 engine and for asynchronous HPEVS AC-35 electric motor in order to compare the performance of the car with ICE and electric motor. It was concluded that there is a possibility of running the family car Syrena 105 with the electric motor through the original gearbox and original final drive, with satisfactory results. It was however noticed, that changing only the final drive ratio can enhance its performance outperforming the original vehicle specification.

Biography

Pawel Adamski has completed his graduation from Arts et Métiers Paristech and Technical University of Lodz in the field of Mechanical Engineering. He is the Commercial Director of PEVT s.c., an innovative company dedicated to e-mobility. He is now working on electric drives for vehicles along with his PhD studies at Technical University of Lodz.

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