Approach for the development of a method for the integration of battery electric vehicles in commercial companies, including intelligent management systems

Abstract:
Current analyses of electric mobility reveal that the electrification of the powertrain of vehicles will change the entire automotive value chain. This paper presents the approach for the development of a method for the evaluation of an economically and ecologically rewarding integration of electric vehicles in commercial companies. First, this method focuses on the analysis of the driving behavior of a commercial vehicle fleet and the energy flow (consumption and production) in a company. Second, it is the goal to evaluate the potential of integrating battery electric vehicles in a commercial company using a new developed fleet-management system in combination with an energy- and charging-management system. The potential of integration will be depicted by the number of battery electric vehicles that can be integrated, the reduction of the total costs of ownership, and the reduction of the produced CO2 emissions.

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