

The Development of Electromobility in Poland and Europe as A Contribution to Improving Air Quality and The Associated Costs*

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Abstract

The article presents the impact of the transformation towards electromobility and related challenges from the point of view of future costs of development of infrastructure for electrotransport and from the point of view of costs borne by the end consumer, which is the main motive of the undertaken research. The aim of the article is also a multi-directional discussion on the justification of transformation in road transport to strive to improve the quality of atmospheric air in Poland and European Union countries. In addition, based on the research method, which is a study of literature and analysis of available source data, the impact of the transformation towards electromobility on the reduction of harmful greenhouse gases and particulate matter in the air, through the introduction of low-emission electric vehicles (BEV), is presented. The operating costs of electric and combustion cars are also compared to support the justification for implementing sustainable electrotransport in Europe in the coming decades. The summary indicates that introducing solutions based on electrotransport will improve the quality of life by reducing the incidence of civilization diseases caused by air pollution.

Keywords: Air quality, electromobility, electrotransport, electric cars, air pollution