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Research on Key Technologies of Multi-domain Sharing Modes of Electric Vehicles

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Abstract

In recent years, the number of electric vehicles in China has been rising, and the supporting charging infrastructure has been increasingly sophisticated. With the promotion and development of the sharing economy, the operation practice of time-sharing leasing proves the potential utility of electric vehicles, which can promote the development of electric vehicles and enhance the acceptance of electric vehicles. However, sharing electric vehicles have issues such as low investment efficiency and high operating costs. According to the above-mentioned status quo and practical problems, this paper explores the key points and influencing factors of the sharing modes, including rural logistics electric vehicles, state-financed electric vehicles, short-time renting electric vehicles and so on. To strengthen the additional social and economic benefits, we study the multi-domain sharing commercial operation modes. Finally, we sort out the relevant technologies that need to be researched, to complete the planning of the development of sharing electric vehicles.