ABSTRACT

The transition to electric vehicles (EVs) represents a critical step towards sustainable and environmentally responsible transportation systems. To understand and promote the widespread adoption of EVs, it is essential to explore the determinants of individuals' intentions to use these vehicles.

This research underscores the complex interplay of five factors influencing the intention to use EVs: EV relative price, EV Characteristics, Psychology, Government Policy and Infrastructure, and their collective impact on individuals' intentions to use electric vehicles. It emphasizes the need for integrated strategies that address these determinants comprehensively to accelerate EV adoption.

We conducted a regression analysis using a sample of 110 individuals who expressed their intentions to use electric vehicles. The positive regression results underscore the multifaceted nature of the determinants of intention to use electric vehicles. It is clear that a comprehensive approach, addressing factors such as price, cost, psychological factors, EV characteristics, government policy, and infrastructure, is essential for accelerating the adoption of electric vehicles. These findings provide valuable insights for policymakers, manufacturers, and stakeholders seeking to promote EV adoption and shape future strategies in the electric vehicle industry.

Keywords: EV relative price, EV characteristics, psychology, government policy, infrastructure, intention to use EV.