

## **A Survey on User's Perceptions of Electric Vehicles for Mobility in a Malaysian University**

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In line with the increased awareness of green environment and efficient use of energy, there is a need to find an alternative for the use of conventional vehicles for mobility within university. In this respect, a university in Malaysia has initiated a project that investigates Electric Vehicles (EV) as a possible means to deliver green vehicles for mobility system solutions. Subsequently, a survey on user's perception of the electric vehicles has been conducted at the university to ensure the success of the project development. Specifically, the survey focused on four aspects related to the usage of the electric vehicles, namely safety, rechargeable method, speed limitation and return of investment. Additionally, the pattern of user's perceptions based on the levels of education and employment status were also investigated. A total of 482 staff and students from the university responded to either the online or offline questionnaire. The data were analysed statistically using open source software, i.e. RStudio. We found that users exert their highest interest in electric vehicle that does stop recharging during its operation in comparison to their interest in electric vehicle safety, speed limitation and concern in return on investment. Furthermore, it was found that there is a strong relationship between the level of education and both the speed limitation and concern in return on investment. Employment status was found to have important relationship in all aspects of user's perceptions except for concern in return on investment. The finding of the study provides valuable insights for early perceptions in developing and adopting electric vehicle for mobility in a university.

**Key Words** Electric vehicle, transportation, survey, user perception, relationship