

The Design Research for Environmental Protection Electric Vehicle in Urban Area

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ABSTRACT

The first impression of the electric locomotive people would get is about environmental protection. In recent years, under government's vigorously guidance, both in its policy execution, and the media propaganda, the awareness of environmental protection has greatly increased and improved. Therefore, most products nowadays are placing its emphasizes and focuses on the awareness of environmental protection, low pollution, also the efficiency of saving the energy. In this case, electric locomotive is then one of the examples that can explain this trend. When the government first vigorously impelled the electrical car, the Industrial Technology Research Institution was asked to participate in the research. Then, the first electric locomotive that was produced with great quantities was officially promoted in 1997. This production at that time is quite a surprise and shock to the society indeed and it got lots of attention. Also, the greatest achievement of this promotion successfully raised the awareness of environmental protection of the society. However, the product itself is lacking quality. On top of that, it has lots of functional flaws within it. Therefore, the electric locomotive was not able to remain its popularity after a short period of time. The main disadvantages of this product are considered as its inconveniences when using and charging, also the insufficient of functions. Most important, its endurance is not even close to satisfactory, which was a major problem of the electric locomotive. Although many factories and companies were willing to invest this manufacture and support its development one after another after considering all these disadvantages and flaws within the product, the electric locomotive was never the trend for the market. The purpose of this research is to fully understand the life conditions, life styles and the trend of our society, in order to create and design the kind of electrically operated vehicles that will meet the market demands, consumers' expectations, and the taste of majority, especially in urban cities. These researches are helpful when ensuring the progress of the electrical vehicle market development. Moreover, the main focus of this research is to create and design a vehicle that is practical, functional, and convenient that will meet the needs of your daily lives. It is also very important for all cooperative corporations and manufactures to understand that the relationship of the product and consumers' daily life are closely connected. This will also assist the producers to know the trend of this market better, and be able improve their vehicle production in order to meet the needs and expectations of the market. This is the main theme and purpose of this research.

Keywords : The life condition, urbanized electrically operated transportation, the new condition localization.

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