

WHETHER ELECTRIC CARS WILL BE THE VEHICLES OF A NEAR FUTURE?

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ABSTRACT *Road transportation, as an important requirement of modern society, is presently hindered by restrictions in emission legislations as well as the availability of petroleum fuels, and as a consequence, the fuel cost. Besides, to reduce the greenhouse gases, and to obey the environmental laws of most countries, it would be necessary to replace a significant number of the petroleum-fueled internal-combustion-engine vehicles (ICEVs) with hybrid (HEV) and electric cars (EV) in the near future. In this article, we briefly describe the merits and demerits of various proposed electrochemical systems for electric cars, namely the storage batteries, fuel cells, and determine the power and energy requirements of a modern car.*