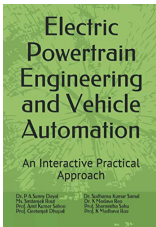


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1.0 Introduction to Electric Vehicle

1.1 Introduction

Electric Vehicle is an automobile drawing power from an onboard from natural sources of electricity or source of electricity, propelled by an electric motors. Electric vehicles are mechanically more durable and simpler than gasoline- Powered vehicles. They produce very less carbon emissions foot prints of pollution. Onboard electric vehicle primarily stores its energy in the form of batteries. Why to build or convert, buy an electric vehicle. Because they are most efficient, produce less carbon emissions, economical mode of transportation and real joy to drive.

Electric Vehicles became part of day to day life. Examples like Cable Cars on top of the mountain, Electric Locomotives, Railway Trams, Submarines under sea, Metros, Subway Rapid Transit System, Electric Bus Shuttles, Delivery Vehicles, Land Rovers on Mars and Moon.

Internal Combustion Engine based vehicles are used for propulsion in the transport sector and they run on sources like fossil fuels. These vehicles are hazardous to both environments, living species on air-under water-on the ground and human health issues due to release of toxic pollutants and gases through tailpipe emissions. As per TERI (The Energy and Resource Institute), by transitioning from Internal Combustion Engine Vehicles to Electric Vehicles may be challenging step towards reducing Green House Gas Emissions and outcome towards Sustainable Mobility and Green Transportation.