ADVANCED E-VEHICLE MONITORING SYSTEM

ABSTRACT

In day to day life, our vechiles run by using the fuel as the energy source. But there is great demand for the non-renewable. Here in our project we use renewable energy source as the main source. In our E-vechile concept we use two battery as a source. Battery "1" will be charged from the supply in our home. Battery voltage level will be monitored in the LCD as well as IoT app. While driving the vechile we can also see the voltage level in the LCD. If there exists any low voltage or Zero Voltage the bike will be automatically energized by the battery 2. So this concept will be very helpful for the persons who are facing the charge problem in their E-vechile.

Moreover these two batteries will be charged automatically by two renewable energy sources one is solar energy and another one is wind energy. If solar energy is available maximum while driving then the battery will be automatically charged by the supply from the solar panel. Else if due to improper weather condition there is no supply from the solar panel but there exist wind energy maximum from the wind mill concept.

Then the battery will be automatically charged by the wind energy. This is used to boost the battery charges while driving. Both the available solar panel energy as well as wind energy value will be displayed in the LCD display. Second concept of our project is to monitor the accident in our vechile. We use vibration sensor to monitor the accident. If there exits accident then the location of the vechile will be automatically updated in IoT. Location of the vechile will be updated using GPS.

BLOCK DIAGRAM