Problem Definition:

The project focuses on the regenerative braking efficiency of the three motors, namely IM , BLDC and SynRM motor. A comparative analysis of braking energy recovered to the total traction energy from the three motors has been undertaken because in urban driving a significant portion of traction energy supplied by the Motor is wasted in braking. Increased energy recovery would result in increased range and less heat losses.

Objectives

* Modeling of an Electric Vehicle in Matlab.
* Application of regenerative braking in different types of motors.
* Calculation of parameters such as efficiency and energy recovery while braking.
* Selection of motor type based on calculated parameters