

between the cars. This type of information is interesting, when deciding how large part of the braking should be done by the electric machine respective the friction brakes in a BEV.

In order to capture all of the braking energy from the Urban cycles in the City car, 30 kW of power in the generator mode is needed, while it is 41 kW and 47 kW for the Highway and Sport car respectively. Similarly, for the Rural cycles, 64 kW, 92 kW and 101 kW is needed for the City, Highway and Sport car respectively. Finally for the Highway cycles, the levels are 76 kW, 108 kW and 120 kW. The higher the power levels the larger the spread within the same type of cycle category.

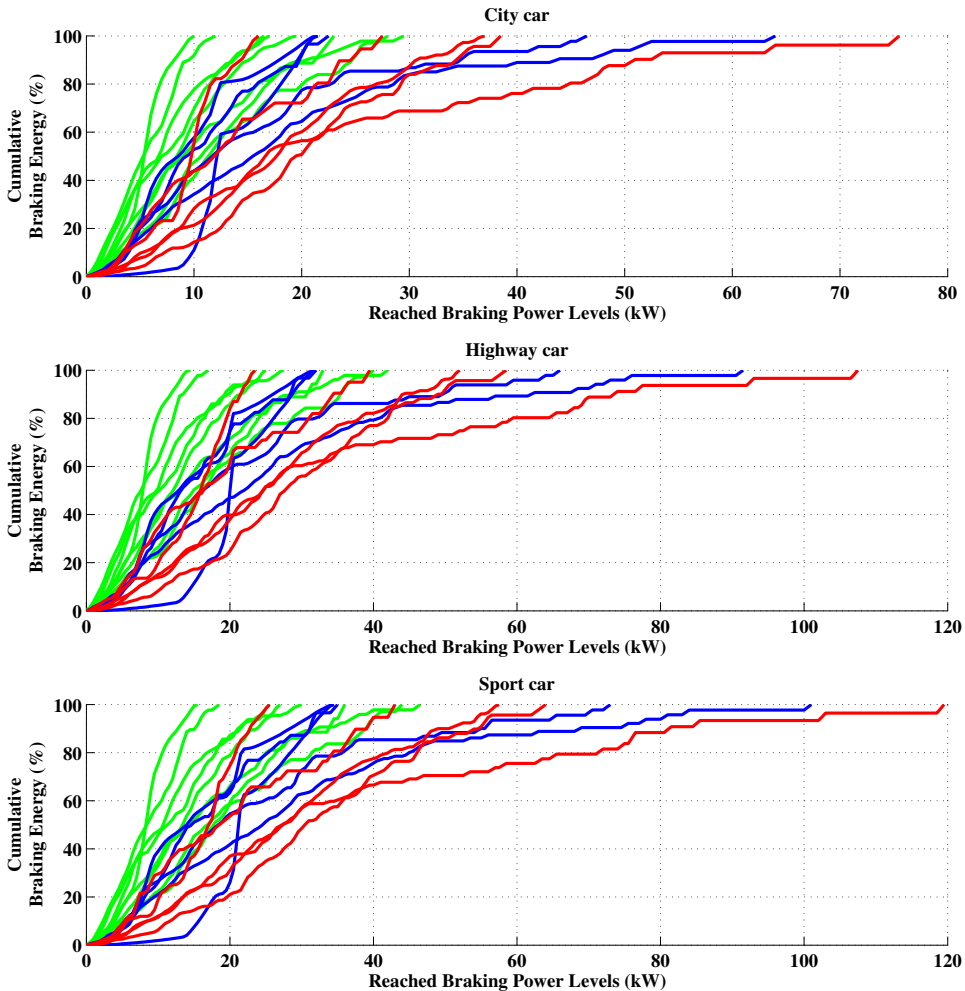


Figure 4.30 Cumulative braking energy per reached braking power level, for all three concept cars, and all Test cycles, where green, blue, red represent Urban, Rural and Highway respectively.