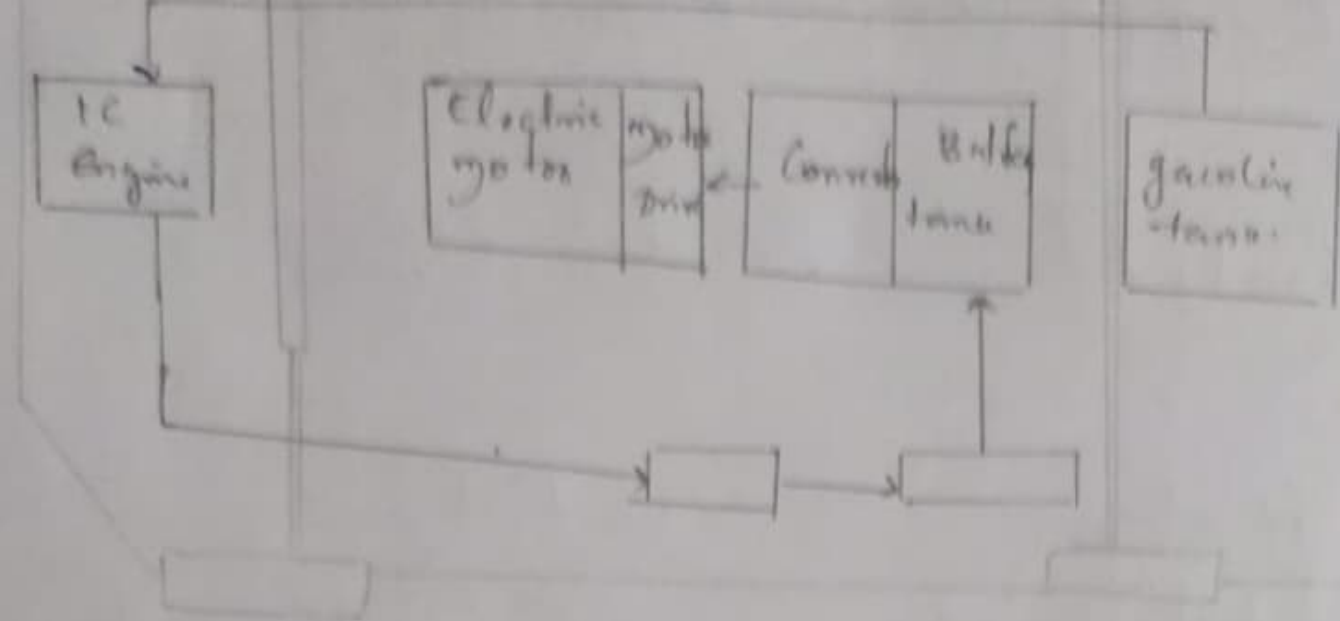




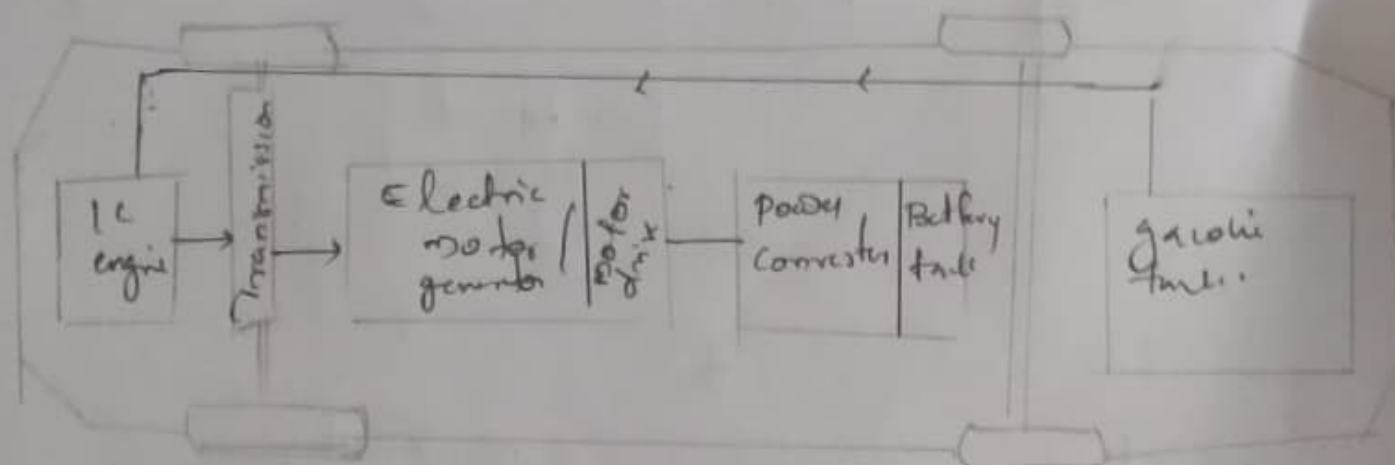
### Advantages:-

- smaller and efficient engine
- reduces harmful gas emission

### Disadvantages:-

- requires 3 machines with smaller power ratings
- no. of energy conversions result in loss.

### Parallel hybrid vehicle

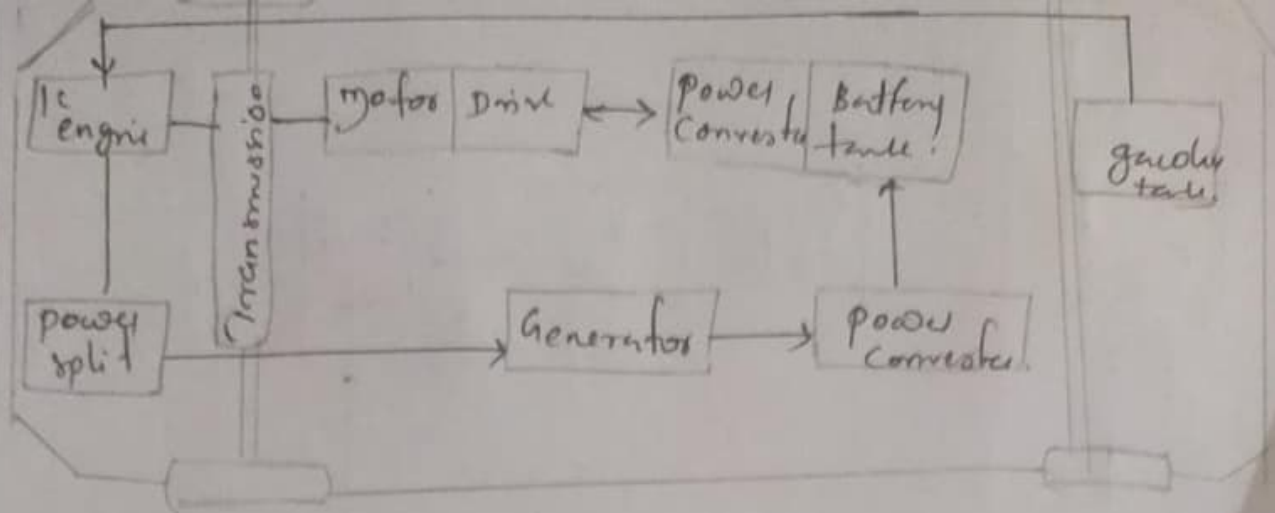


### Advantages:-

- uses smaller battery packs, relying on regenerative braking
- engine noise less

### Disadvantages

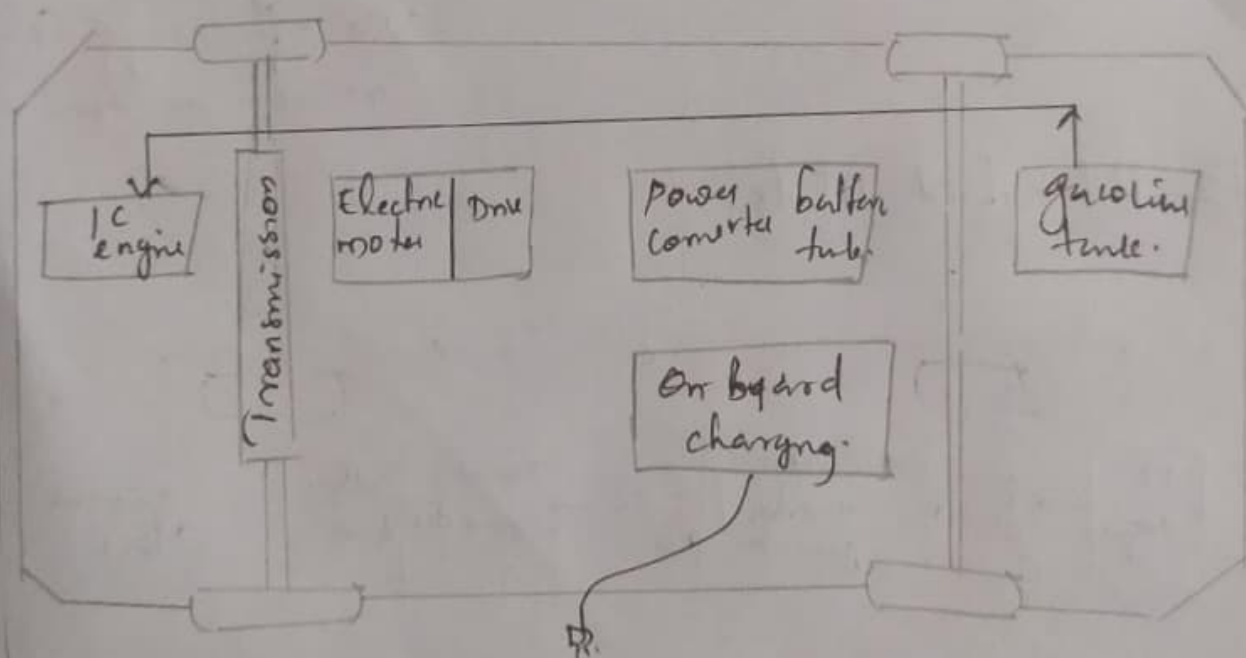
- high cost
- high weight



advantages :-  
 high efficiency

Disadvantages:  
 → high cost.  
 → larger battery, motor & generator.

## Plug-in hybrid EV



Advantages  
 → less green house gas emission.  
 → low fuel cost

Disadvantages:  
 → Recharging taking time  
 → higher vehicle cost