Be forthis . But the Property · Exectic Vehicles . 60 KWh, changer = 1.4 KWh Battery Capacity Cap Hme = 60 KWh 1-4 KW (time = 42-86 hrs) Rate = 0.25 KWh mile., Buttery = 60 KWh. Change of 7.2 KWh. 6 to 100 Y.

Range of Vehicle. = Battery Capacity

Rate of Consumption

Range of Valide = 240 miles

0.10 \$ per kwh, 40 Kwh Jam 20 8/20 100 %. changer = 7.2 KW.

schange required = Mox 0.8 = 32 kwh.

Cost = 0-10 x 32 = 3-2\$

efficiency = 30%. , output power = 10 KW. Input Power = 10 = 11.11 KW

50 km, 20% to 100%. 3 electric Vehicles. Total Energy = 3x 50x (1-0.2) Kwh.

Total Energy = 120/KWh

10% to 90%. De fast charger. output = 150kw. Battery Capacity = 75 KWh.

time = 75×(0.8) = 0.4 hre = 0.4 × 60 min 150 = Capacity to be changed output of changer.

24 mins will be required.

Q.2) Capacity = 60kwh, 15% lost in 15 yrs New Capacity = 0.85 x 60 = 51 KWh Effective Capacity = (51KWh)

(8) 80kwh capacity, efficiency = 95%. 50kwh chang Imput: Energy = Output Energy 1= 50 = 52063kwh

Energy Drawn from Grid = 52.63 KWh

Efficiency

Q.g.) 5 (lend 2) changers, coch 7.2 kb

Total power Dutput = charger × flower of

= 5x 7.2 kw = 36kw

Total power is 36kwy

output = 0.2 kwh/mile

Solar panel fange of = 6kwh = 30 mbr

Ev prendy = 0.2 kwh/mil