```
Day-4
1) E = 1.5 ×100 × 100 MJ
    = 200 mJ
   P = 700 bos
    Lower heating value of Hz = 120 mJ/kg
   : mass of H_2 = \frac{500}{120} kg = \frac{25}{6} kg
                            ≈ 4.167 kg
    n = \frac{25/6}{2} \times 1000 = \frac{25}{12} \times 1000
     Y = NRT = 25/12 x 8.314 x 298 x 1000 m3
                  = 8.314x298 x10-2 m3
                    12×7× 4
                 ≈ 7.3737 × 10-2 m3
                 = 73.737 L
   2CH4 + 3H20 -> CO2 + CO + 7H2
30
     2x16 g CH4 gives 28g CO + 7x2 g H2
     CO + H2O -> CO2 + H2
     289 CO gives 29 Hz
   80 32 g CNy → 16 g Hz

=> 25 kg CNy → 12.5 kg Hz
```