3

1) 100 ton affald, TS = 70%, E = 21 MJ/kgTS, Aske = 20% TS

2) Diesel 0.1 L/ton, Gas 0.05 m³/ton, Vand 0.15 m³/ton.

3) -

3.1

Diesel: 10 L => 8.6 kg => 0.0086 ton

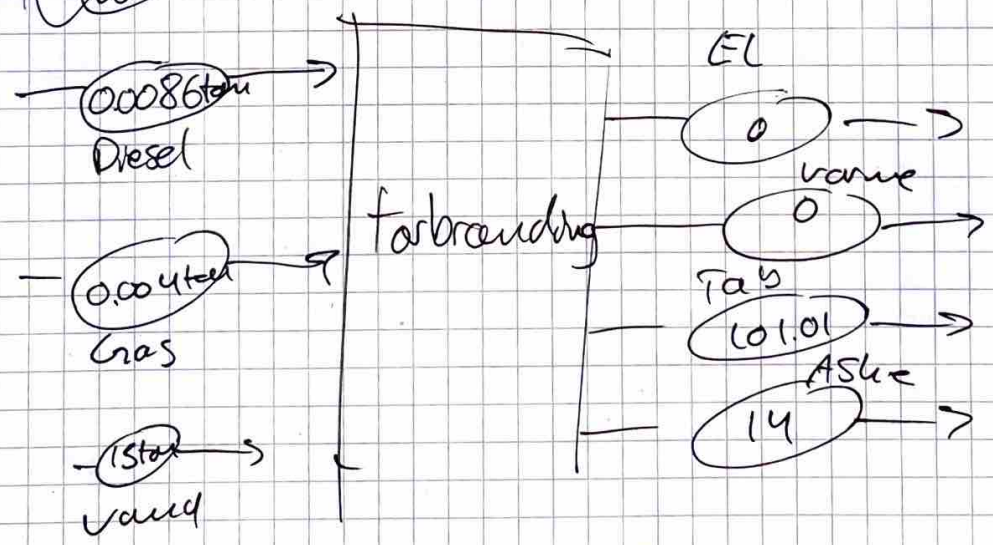
Gas: 5 m³ => 4 kg => 0.004 ton

Vand: 15 m³ => 15000 L => 15 ton

Affald (100 ton) →

Input: 115.01

Output: 115.01



Aske: 100 · 0.7 · 0.2 = 14

Tab: 115.01 − 14 = 101.01

Husk: masse

3.2

Input energi:

Affald:

100 ton · 70% TS · 21 MJ/kgTS · 1000 = 1,470,000 MJ

Diesel: 0.0086 ton · 40.7 MJ/kg · 1000 = 350.02 MJ

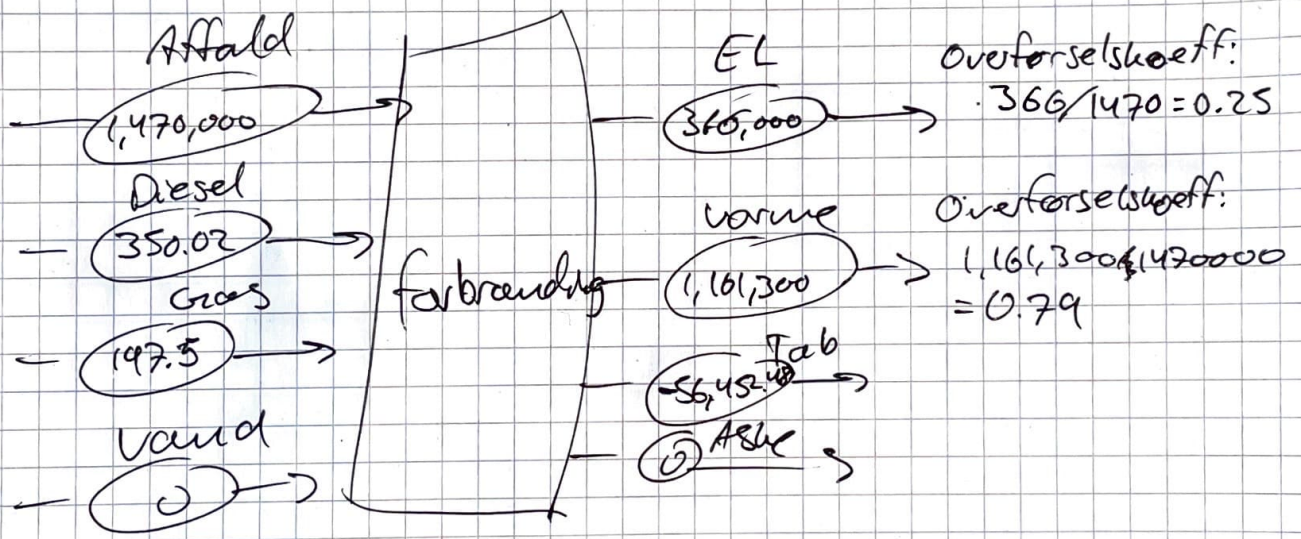
Gras: ~~0.004 ton · 39.5 MJ/kg~~

5 m^3 · 39.5 MJ/m^3 = 197.5 MJ

vand: 0

Input: 1,470,547.52

output: 1,470,547.52



EL: ~~100~~ ton 1,470,~~547.52~~ 000 · 0.26 − 30 kWh/ton · 100 ton · 3.6 MJ/kWh

− 15 kWh/ton · 100 ton · 3.6 MJ/kWh

= 366,000 MJ

varme: 1,470,000 · (0.62+0.17) = 1,161,300 MJ

Tab: 1,470,547.52 MJ − 366,000 − 1,161,300 = −56,452.48