1. a) ber aspiratora le sa aspiratoram
A = 212 17 = 3,8 m2 [1,253,44
$A_{1} = \frac{2120}{4}\pi = 3.8 \text{ m}^{2}$ $C_{1} = 26.04 \text{ m/s}$ $P_{1} = 51.9 \text{ MW}$
H= 46,43
P=45,09 MW DP=6,81
10. asp= (2200-24)/3
H ₈ =58m
y=0,9
Woosz
Hm=HB= 58 m
Qsp (Hzoh) = Q(593) = 338 m/3
W=1,21.1012 Wh
W= 1213 GWh
11. QCR=(2200-2H)/3
Hn=Hn+(Hz-Hd)=422 m
asp(589)=340,67 m3/s
W=8895 GWA

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2. a) ber difference

At = 0, 10 = 8155 m²

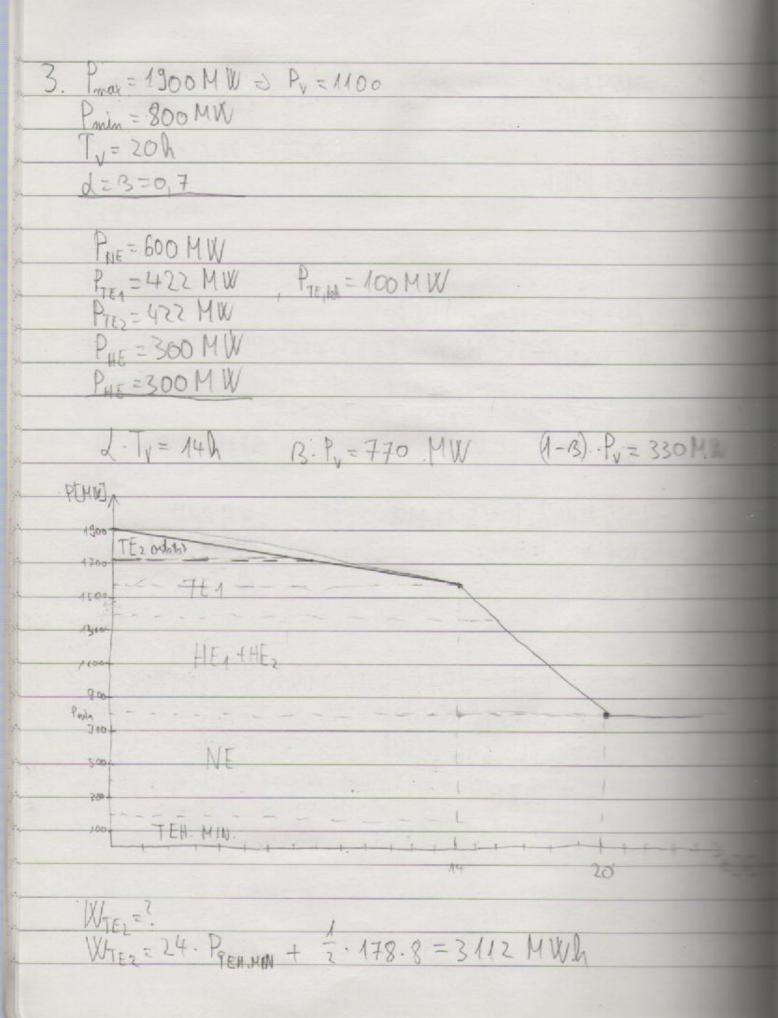
Et = 9 = 10,52 m/s

Hn = 86,36 m

Pa = 9810- Q- Hn = 76,25 MW

Pa = 85,41 MW

DP= Pb-Pa=9, 16 MW



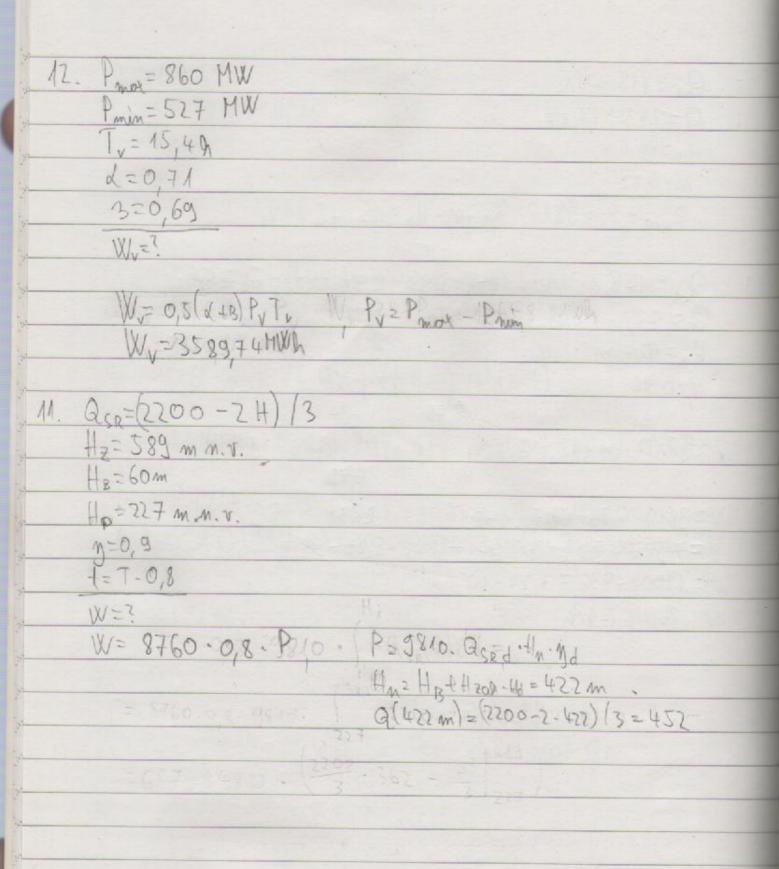
Prin= 800 MW Tr= 20 h d= B=0,7 Product = Pmax - PNE - 2 - PHE - 2 - PT min -= 280 MW 5. Pmax = 1071 MW Pv2 Pmot - Pmln = 571 MW Pmy 2500 MW Tv=15,5 h W=16951 MWh B=0,591 Wx = 24 - Pmin = 12000 MWh

Wy=W-Wy= 14951 MWA d+3= 2 WV => d= 2 4951 - 0,591 d=0,527

6. Pmax = 1068 MW ? Pv=512 MW W114 30 Prin = 556 MW TV=18,7h Lz0,74 Bz969 WV=(4+B)-0,5. Pv-Tv=6845,696 MWh WK=24. Pmin = 13344 MW a W=Wv+Wk=20189,696 MWh

M = W = 0,7876

8. m=12+ti => 1=24.0,64-12=3,36 G=240-20-336=172,8 7. Q=299-20+ M=0,85 H2= 90 +20 Q:= 958(6) = 299-20-62 179 m3(1) H. (299) = 49,9 m Pmox = Qi - 9810-M. H = 74,48 MW



14. Q = 116 m3/s Q=283-17,17 Hn=16,6m Pmax = P== 9810-Qi-n-Hn=15,49 MW/ 13. Q;=148 m3/s } 148=293-19,9 t;=> t;=6,78 mi Q=283-19,9+ Ha=10,7 m M=0,76 W=9810. y. Hn (Qi · Sd+ + S(283-19,9+)d+) W29810.0,76-10,7 (148-6,78+ (283+ -49,9 +2) (6,78) 27977492 (1003,44+283.5,22-49,9.0,5(122-6,782)) W = 120084036,7 . 24-30 WZ 86, 46 GWh

15.
$$Q_{1}=129m^{3}/5$$
 $Q_{-285}-19.7 + m^{3}/5$
 $U_{-2}=11/3m$
 $U_{-2}=11/3m$