

EXERGY BALANCE

		Q_{th} (kW)	η_{energy}			
component	Resource	Product	Exergy efficiency	Irreversibilities	% total	
feedwater pump		10.70	9.96	93.04%	0.74	0.16%
turbine		194.70	171.71	88.19%	22.99	4.83%
IP1 turbine		265.79	240.43	90.46%	25.36	5.33%
IP2 turbine		383.77	323.48	84.29%	60.29	12.67%
extraction pump		0.34	0.30	90.44%	0.03	0.01%
LPH2		73.36	38.31	0.00%	35.05	7.37% LPH2-extraction_1
condenser		29.54	0.00	0.00%	29.54	6.21% Tk = 20,00 °C
economizer		397.48	253.43	63.76%	144.05	30.27% Tk = 700,00 °C
superheater		320.24	264.52	82.60%	55.72	11.71% Tk = 700,00 °C
evaporator		313.55	238.83	76.17%	74.71	15.70% Tk = 700,00 °C
reheater		169.24	141.92	83.86%	27.32	5.74% Tk = 700,00 °C
global		1,200.50	724.69	60.37%	475.81	100.00%
$T_0 = 293,15\text{ K}$		1,718.04	42.18%			