

EXERGY BALANCE

		Q_{th} (kW)	η_{energy}			
component	Resource	Product	Exergy efficiency	Irreversibilities	% total	
feedwater pump		8.94	8.94	99.95%	0.00	0.00%
turbine		191.89	170.84	89.03%	21.05	3.53%
LP turbine		727.18	629.34	86.55%	97.84	16.41%
condenser		35.52	0.00	0.00%	35.52	5.96% Tk = 20,00 °C
economizer		575.88	295.95	51.39%	279.93	46.95% Tk = 700,00 °C
superheater		312.03	257.19	82.42%	54.85	9.20% Tk = 700,00 °C
evaporator		330.33	250.60	75.86%	79.73	13.37% Tk = 700,00 °C
reheater		169.24	141.92	83.86%	27.32	4.58% Tk = 700,00 °C
global		1,387.48	791.24	57.03%	596.24	100.00%
$T_0 = 293,15\text{ K}$		1,985.62	39.85%			