

Glossary

ABC	Air Bottoming Cycle
t1t	Compressor inlet temperature in the topping cycle.
t2t	Compressor exit temperature in the topping cycle.
t3t	Turbine inlet temperature of topping cycle.
t4t	Turbine exit temperature of topping cycle.
t1b	Compressor inlet temperature of bottoming cycle.
t2b	Compressor exit temperature of bottoming cycle.
t3b	Turbine inlet temperature of bottoming cycle.
t4t	Exhaust temperature from the air turbine.
e	Effectiveness of heat exchanger
n	Number of inter cooling stages
Wnett	Net work of topping cycle.
neta_t	Thermal efficiency of topping cycle.
Wnetb	Net work of bottoming cycle
Wnet	Net work of combined cycle.
neta_net	Thermal efficiency of combined cycle.
Sfc	Specific fuel consumption of fuel of combined cycle.
mab	Mass flow rate in bottoming cycle.
rp1	Pressure ratio of topping cycle.
rp2	Pressure ratio of bottoming cycle.
Wct	Compressor work in topping cycle.
Wtt	Turbine work in topping cycle.
ma	Mass flow rate of air in topping cycle.
mg	Mass flow rate of gas (air+fuel) in topping cycle.
q	Heat supplied in combustion chamber.
$\eta_{comb.}$	Efficiency of combustion chamber.
η_c	Efficiency of compressor.
η_t	Efficiency of turbine.
Cpg	Specific heat of gas.
Cpa	Specific heat of air.