SCRC  Supercritical Rankine cycle
SRH   Single reheat
ST    Steam Turbine
USC   Ultra supercritical cycle

**List of symbols**

- η  efficiency
- ε  specific exergy
- β  reduced pressure
- θ  reduced temperature
- χ  reduced volume
- ε  reduced enthalpy
- ξ  reduced free enthalpy
- ψ  reduced free energy
- Σ  Sum
- V  range for K-function constant
- Z  Notation for the equation

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o outlet

tur turbine

wi water inlet

**Superscripts**

~ Molar Quantity

_ Dimensionless

0 Standard environmental state

ΔT Thermal component

**Acronyms and abbreviations**

A Flue gas boiler entry

B Flue gas boiler exit

BOI Boiler

C Condenser

DRH Double reheat

FEL Fractional Exergy Loss

P Pump

R Reheat pressure ratio

R_1 First reheat pressure ratio

R_2 Second reheat pressure ratio

RH Reheat

SCC Supercritical cycle
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