



**STEAMDOSS Model details:**

<b>Item Number</b>	<b>Model</b>	<b>Description</b>	<b>Use</b>
1	Steam generation model	Gives a simulation model with one fire tube and one water tube boiler. Boilers are mounted with economizer, airpreheater and the model uses a non condensing steam turbine	Evaluate fuel consumption, power and water balances. Useful to model the on site steam generation plant with components added or deleted and evaluate the energy savings. Useful to perform sensitivity analysis. Data helps calculate operating costs for different options.
2	Evaluate economizer efficiency	Gives a Fire tube boiler mounted with and with out Economizer	Evaluate the efficiency of Boiler with economizer for different input conditions like changing fuels, feed water conditions and compare with a model with out Economizer
3	Evaluate boiler with Airpreheater	Gives a Fire tube boiler mounted with and with out Airpreheater	Evaluate the efficiency of Boiler with airpreheater for different input conditions like changing fuels, air temperatures and compare with a model with out Airpreheater
4	Blow down recovery	Gives a blow down recovery configuration for a water tube Boiler mounted with airpreheater. Component include a flash tank and a blow down recovery heat exchanger heating the make up water	Evaluate the energy savings due to blow down heat recovery. Calculate the rise in temperature in make up (MU) water and reduction in heating steam at Deaerator .Perform a sensitivity analysis changing the blow down percent, fuel and feed water. MU water properties
5	Multi Turbines in operation	Gives steam turbines connected in parallel. Outlet connected to a hypothetical sink .Modeled for a fixed steam flow at inlet	Evaluate the efficiency, heat rate and specific steam consumption and performance under varying steam flow conditions .Useful to perform a sensitivity analysis.