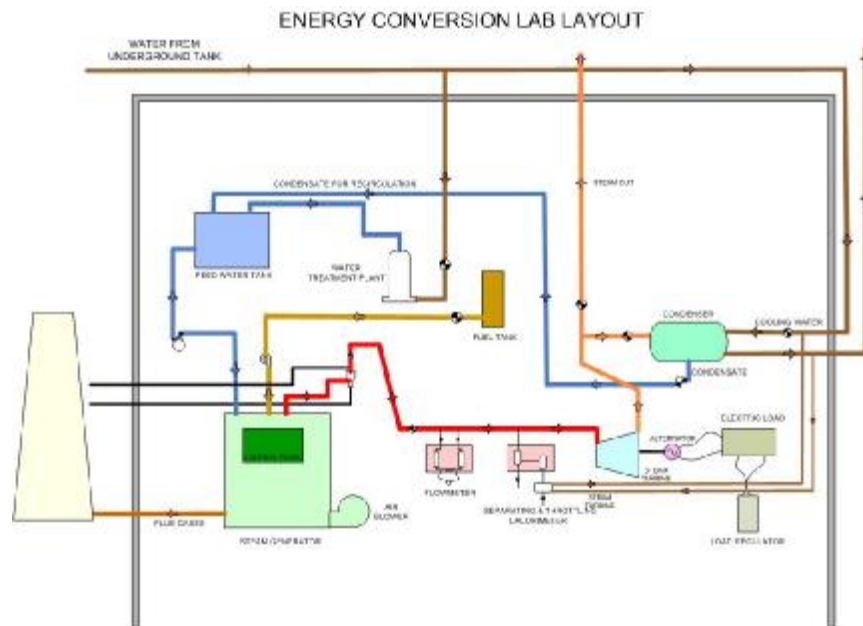


ENERGY CONVERSION LAB

The Energy Conversion lab is basically an actual power generating setup. The setup comprises of a steam generator, a steam turbine and a condenser laid together, executing the basic Rankine cycle.

The setup incorporates auxiliaries such as water treatment unit, steam flow meter, separating and throttling calorimeter, water rheostat etc. and is equipped with several safety devices, measuring & controlling equipment.



The setup is utilized for conducting experiments for evaluating steam generator performance, condenser effectiveness, steam quality, turbine efficiency and overall efficiency determination of the power generation procedure.



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MECHANICAL ENGINEERING DEPARTMENT



'ECOTHERM 600' : Diesel fired, fully automatic, water tube steam generator



Single stage, velocity compounded impulse turbine



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MECHANICAL ENGINEERING DEPARTMENT



2 pass shell & tube condenser with water rheostat



Steam flowmeter and Separating & throttling calorimeter