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## Topic 2

### Answer:

Reduction of specific energy consumption per kWh generation by 20%, is possible in case of **Co-generation** (Combined Heat and Power) system of power generation. Such success stories are about power plants based on Gas Turbine, which has a thermal efficiency of about 24 to 35%. When Gas Turbine is operated along with heat recovery (HRSG) by generating steam, which in turn is used for operation of steam turbines for power generation, the combined efficiency goes to 34 to 40% range. **Maharashtra State Electricity Board have implemented such a scheme at their Uran Gas Turbine Power Generation Unit near Mumbai.**