

Second Prize	Rajiv Gandhi Combined Cycle Power Project Dist.Alappuzha, (Kerala)	Sector: Thermal Power stations (Gas fired plants>100 MW capacity)
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Unit Profile:

Rajiv Gandhi Combined Cycle Power Project (NTPC-Kayamkulam) is a power (electricity) generating company with installed plant capacity of 360 MW. NTPC-Kayamkulam is situated in Alappuzha district of Kerala State. The plant works on combined cycle principle. In NTPC Kayamkulam there are two gas turbines with 115.20 MW capacities. These turbines work on Brayton Cycle principle. And also a steam turbine which works on Rankine cycle and has an output capability of 129.177 MW. Two gas turbines, two Heat Recovery Steam Generators (HRSG) and one Steam Turbine put together is called a Combined Cycle module. Thus it has a total installed capacity of 359.577 MW.



Brief Description of the major Energy Conservation Actions:

1. Gravity feeding of CT make up pump
2. Insulation Audit and Hot spot attending
3. Reservoir Bypass Line and New Strategy for Running of Make up Water Pumps
4. Make up Water Pump-C coating
5. Installation of Turbo Ventilator and occupancy sensors

Total Investment	₹ 190.716 Lakhs
First Year Energy Cost Savings	₹ 2272.615 Lakhs

Person who should be contacted for more Information:

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