

## CASE STUDY ON WASTE HEAT RECOVERY SYSTEM

<b>CLIENT:</b>	<b>KANGWAL POLYESTER CO. LTD</b>
Location	88, Moo 2 Nongchumpol Sub-Dist.-Khaoyoi Dist., Phetchaburi 76140 Thailand.
Commissioned on	2014
Type	Plain tube
<b>PROCESS DATA:</b>	
Gas Inlet Temp	300°C
Gas Outlet Temp	165°C
Water Inlet Temp	85°C
Water Outlet Temp	197°C
Water Flow	9000 kg/hr
Flue Gas Flow	46500 m3/hr



### COST EVALUATION

Heat duty Assodated (kcal/hr)	100800
Fuel type	Risk husk
CV of Fuel(net) kcal/kg	4000
Fuel Saving (kg/hr)	252
Fuel savings per year (kg/year)	2016000

### COST SAVING DUE TO WHRS

Fuel Cost (INR/kg)	3.50
Savings in INR per Year	<b>Rs. 70,56,000</b>

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