

A CASE STUDY ON SOLAR THERMAL BOILER

CLIENT :	ATRIA POWER CORPORATION LIMITED
Location	Nalva galu village, Dist.- Haveri , Karnataka
Commissioned on	2013
PROJECT DETAILS :	
Power Generation Capacity	1.5 MWe
Boiler Details	
Capacity	11,700 Kg / Hr
Steam Pressure	38 Kg / cm ²
Steam Out Temperature	355 °C
Thermic Fluid entry Temperature to Boiler	375 °C
Thermic Fluid exit Temperature from Boiler	228 °C



COST EVALUATION

Heat recovered by water	8555938 kcal/hr
Fuel – Coal with approx. calorific value	4800 kcal/kg
Fuel saving in kg/hr	1782
Fuel saving per year (i.e for 8000 hrs)	14259T

FUEL SAVING

Fuel saving per year – 14259T