

Steam Cooking System for 1000 people using Scheffler Dishes at JSSM Dosha Bhavan, Mysore, Karnataka

Location: Mysore

Type of Installation: Scheffler Dishes

Configuration: 192 m² (16 m² x 12 Nos.)

Supplier: Unisun Technologies, Bangalore

Application: Cooking

Year of Installation: 2011

Beneficiary Details: JSS Mahavidyapeetha was the vision and foresight of his holiness, Jagadguru Late Sri Sri Sri Dr. Shivarathri Rajendra Mahaswamiji, the 23rd pontiff of the 1000-year-old Suttur Mutt. Sri Sri Sri Shivarathri Deshikendra Mahaswamiji, the 24th pontiff, is steering the success of a host of educational institutions and programs in the fields of engineering, medicine, dental, pharmacy, naturopathy, nursing, law, management, pure sciences, arts, commerce, vocational and spiritual education.



JSS Mahavidyapeetha

System Details: The total system has an area of 192 m² comprising of 12 concentrators with 16 m² capacity each. The system was commissioned during 2011 by M/s. Unisun Technologies (Pvt.) Ltd. Prior to the implementation of the CST system, the establishment was using LPG cylinders for its end use and consumption. The system is integrated with its existing process. The project is set up at a cost of Rs. 35.40 Lakh with grant availed from MNRE of the order of Rs. 10.62 Lakh.



CST Array at JSS Doshabhavan



View of Tracking System of Solar Array

<p>Timings & System Application Details: The system is operating for 4 to 5 hours for preparation of <i>Anna Prasadam</i> for the pilgrims. The daily quantum of food is around 50 kg of Rice, 200 kg of Dal and 10 kg of vegetable. It is functioning properly and is operated around 300 Days and depends on the visitation of pilgrims in a particular season. The plant resulted in saving 300 Cylinders of LPG per annum.</p>	
<p>Steam Generation: 780 kg/cm² Operating Temperature & Pressure: 100-120°C; 4- 6 kg/cm²</p>	
<p>Type of Fuel Saved: LPG Quantity of Fuel Saved: 300 Cylinders/Year</p>	
<p>Functionality & Key Issues of Non-Operation: Operational</p>	
<p>Status of Equipment: Working Good</p>	
<p>O & M Issues & Beneficiary Perception: The system is operating properly and is benefiting the establishment by saving around 300 LPG cylinders per year on adoption of concentrating solar cooking system. As the system is installed recently, so far they have not faced any problems in operation.</p>	
<p>Financials in Detail: The project is set up at a cost of Rs. 35.40 Lakh with grant availed from MNRE of the order of Rs. 10.62 Lakh. The plant saves around Rs. 5.40 Lakh per year on cost of purchasing LPG. The plant has an IRR without subsidy of 14.41 % and payback period of 5 Years and 3 Months. With subsidy the IRR is 21.99 % and payback period is 3 Years and 4 Months.</p>	
<p>Cost of System: Rs. 35.40 Lakh MNRE Subsidy: Rs. 10.62 Lakh</p>	
<p>IRR & Payback with Subsidy: IRR & Payback without Subsidy: 21.99 % & 3 Years and 4 Months 14.41 % & 5 Years and 3 Months</p>	
<p>Overall System Performance: Good</p>	<p>Date of Visit: 09-05-2013</p>
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