



Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure	Sector -..... O2 Plant -2.
Year to be filled by BEE	Use of steam heaters instead of electrical heaters.	Technology ...
<p>Description of the energy conservation measure: In Oxygen plant-2 (Technology Supplier: Air liquid), the adsorbed re-generation (to remove co2 and moisture) was being done by using 360KW electrical heater (with specific on/off cycle) in parallel with a steam heater (as per the original design). Around 13000 Nm3/hr of nitrogen was being heated by using the steam heater supplied by the OEM and the remaining 5000 Nm3/hr of nitrogen was to be heated by using the electrical heater .The electrical heater power consumption was 2750 units per day. It was decided to upgrade the existing steam heater (supplied by OEM) to totally eliminate the parallel electrical heating system. A new steam heater of higher capacity was installed with an investment of 23.4 lacs. After installing the new steam heater electric heating system was totally switched off and old steam heater is kept as stand by.</p>		
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification	
Not available		
Agency that executed the project (with complete address and email):		
Total investment, Rs.: 23.4lacs	Year of implementation: 2006-07	

First year energy cost savings, Rs.: 39lacs					
First year other savings, Rs.: Nil					
On annual basis	kWh 000'	Coal (Ton s)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	10,10,000	-	-	-	
Energy consumption after	0	-	-	-	
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL	3.85	-	-	-	
...					
Company complete address: Sterlite Industries (India) Ltd.Madurai Bypass road, TV puram,Tuticorin-628002				We authorize Bureau to use this information for dissemination	
Contact person who could be contacted for more information: S. Ramkumar (Energy Manager), 162-A, New colony Tuticorin, 628002. Mobile:9842135595, Tel:6612011,6612276,6612268. Fax:0461- 2340306, E-mail:s.ramkumar@vedanta.co.in				Signature	
				Date	


Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure	Sector -..... CCR Plant.
Year to be filled by BEE	Reduction in LPG consumption in Continuous Copper Rod Plant from 40.2Kg/MT to 35.3 Kg/MT.	Technology ...
<p>Description of the energy conservation measure: In our continuous copper rod plant (CCR) LPG forms more than 70% of total energy consumption. To reduce the overall cost various measures were initiated to reduce LPG consumption. Following measures were initiated to reduce the LPG consumption</p> <ol style="list-style-type: none"> 1.LPG vaporiser was taken into line in order to increase the LPG temperature to (48 to 50 Deg C) 2.Maintained CO% in the incoming gas between 0.5 to 0.75%. 3.Reduced the routine maintenance time from 70 min to 60 min (per day) 4. Maintained header pressure of incoming LPG constant to maintain CO% constant. <p>The LPG Consumption per ton of rod production was reduced from 40.2 Kg/MT to 35.3 Kg/MT.</p>		
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification	
Not Applicable		
Agency that executed the project (with complete address and email):		
Total investment, Rs.: 1.5lacs	Year of implementation: 2006-07	

First year energy cost savings, Rs.: 81lacs					
First year other savings, Rs.: Nil					
On annual basis	kWh 000'	Coal (Ton s)	Gas Nm ³	Oil (kL)	LPG
Energy consumption before	-	-	-	-	40.2Kg/MT of Rod
Energy consumption after	-	-	-	-	35.3Kg/Mt of Rod
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	-	-	-	-	31,000/MT
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				Date	

Energy Conservation Measure implemented in 2006-2007

(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	Title of the measure	Sector -..... PAP Plant.
Year to be filled by BEE	De-hydrate (DH) Filter manifold modifications to avoid running of DH cake wash.	Technology ...
Description of the energy conservation measure: New DH cake wash pump was installed in the year 2003-04 for final wash on Dehydrate filter last receiver. This pump used to provide 10m³/hr of water continuously from the final wash receiver to the filter or dilute wash tank. Water quantity was less and same could be handled by existing manifold and receiver with slight modification. Dehydrate Filter last vacuum manifold had been modified by removal of the partition between Final receiver and DH cake wash receiver. Now pump is being kept stopped and receiver is isolated. With the implementation of this energy saving idea, running of New DH cake wash pump was avoided.		
Picture/ sketch/ drawing before modification (if available)	Picture/ sketch/ drawing after modification	
Not available		
Agency that executed the project (with complete address and email):		
Total investment, Rs.: 1.1lacs	Year of implementation: 2006-07	

First year energy cost savings, Rs.: 4.1lacs					
First year other savings, Rs.: Nil					
On annual basis	kWh 000'	Coal (Ton s)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	1,06,634	-	-	-	
Energy consumption after	0	-	-	-	
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL	3.85	-	-	-	
...					
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