



Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure		Sector : Chlor Alkali			
Year to be filled by BEE	Proactive Approach for Optimization of Cooling Water Flow as per Operating Load		Technology : Asahi Kasei			
<p>Description of the energy conservation measure:</p> <p>Its normal practice in process plants to circulate same quantity of cooling water flow irrespective of plant operating load OR weather conditions i.e. no flow reduction of cooling water is done as per weather conditions OR occasions of lower operating load of the plant.</p> <p>In our plant we have started proactive control of cooling water flow as per the plant operating load & weather conditions by throttling of cooling tower pumps discharge valves OR even stoppage of one of the pump.</p>						
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification			
N.A.						
Agency that executed the project (with complete address and email) : In-house						
Total investment, Rs.: Nil			Year of implementation : 2006-07			
First year energy cost savings, Rs.: 5.67 Lacs						
First year other savings, Rs.: Nil						
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other	
Energy consumption before	212 (Net saving)	-	-	-	-	
Energy consumption after		-	-	-	-	
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL...	2.67	-	-	-	-	
Company complete address: Shriram Vinyl & Chemicals Industries A unit of DCM Shriram Consolidated Ltd. Caustic Soda Plant Shriram Nagar Kota 324004 (Rajasthan) Tel. : 0744 – 2480011-17, 2480991-98 Contact person who could be contacted for more information : Mr Vijay Kasliwal				We authorise Bureau to use this information for dissemination Signature Date : 22.10.2007		


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ID to be filled by BEE	Title of the measure Identification of Cell Units operating at higher voltage	Sector : Chlor Alkali			
Year to be filled by BEE		Technology : Asahi Kasei			
Description of the energy conservation measure: Cell units (total – 27nos), which were running at higher voltage were identified & replaced with latest design NCH type of cell units.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
N.A.					
Agency that executed the project (with complete address and email) : In-house					
Total investment, Rs.: 32 Lacs			Year of implementation : 2006-07		
First year energy cost savings, Rs.: 10.75 Lacs					
First year other savings, Rs.: Nil					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	9662	-	-	-	-
Energy consumption after	9259	-	-	-	-
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL...	2.67	-	-	-	-
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ID to be filled by BEE	Title of the measure		Sector : Chlor Alkali		
Year to be filled by BEE	Reduction in RPM of Brine Reactor (A-022) by using VFD		Technology : Asahi Kasei		
Description of the energy conservation measure:					
<p>During energy audit it was observed that the power factor of the Reactor-1 agitator motor was low, also the operating load was less. Hence it was decided to improve the power factor & reduce the RPM by installing VFD. We have successfully installed the VFD and reduced the RPM from 1450 rpm to 860 rpm. This has improved the power factor and energy is saved.</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
N.A.					
Agency that executed the project (with complete address and email) : In-house					
Total investment, Rs.: 0.80 Lac			Year of implementation : 2006-07		
1st year energy cost savings, Rs.: 1.31 Lacs					
First year other savings, Rs.: 0.10 Lacs (Maintenance cost)					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	67	-	-	-	-
Energy consumption after	18	-	-	-	-
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL...	2.67	-	-	-	-
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ID to be filled by BEE	Title of the measure Auto control of Cooling Tower ID Fan with Temperature	Sector : Chlor Alkali			
Year to be filled by BEE		Technology : Asahi Kasei			
Description of the energy conservation measure: During winter, cooling water temperature is low hence there is no need to operate the ID Fan of cooling tower. A temperature auto cut off switch is installed for ID fan. It is set at 18°C i.e. when the cooling water temperature is above 18°C ID Fan runs and below 18°C it switch off the fan.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
N.A.					
Agency that executed the project (with complete address and email) : In-house					
Total investment, Rs.: 0.10 Lacs			Year of implementation : 2006-07		
First year energy cost savings, Rs.: 0.80 Lacs					
First year other savings, Rs.: Nil					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	30 (net saving)	-	-	-	-
Energy consumption after		-	-	-	-
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL...	2.67	-	-	-	-
Company complete address: Shriram Vinyl & Chemicals Industries A unit of DCM Shriram Consolidated Ltd. Caustic Soda Plant Shriram Nagar Kota 324004 (Rajasthan) Tel. : 0744 – 2480011-17, 2480991-98 Contact person who could be contacted for more information : Mr Vijay Kasliwal				We authorise Bureau to use this information for dissemination Signature Date : 22.10.2007	


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ID to be filled by BEE	Title of the measure Reduction in Furnace Oil Consumption		Sector : Chlor Alkali			
Year to be filled by BEE			Technology : Pot Based Heating System			
Description of the energy conservation measure: In our flaking plant, hydrogen OR furnace oil can be used for conversion of caustic soda lye to caustic soda flakes. Conversion is essentially an evaporation process. In year 2006-07, furnace oil consumption was reduced to 3 Ltr/ton (from target consumption of 15 lit/ton) by better hydrogen utilization.						
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification			
N.A.						
Agency that executed the project (with complete address and email) : In-house						
Total investment, Rs.: Nil			Year of implementation : 2006-07			
First year energy cost savings, Rs.: 24.59 Lacs						
First year other savings, Rs.: Nil						
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other	
Energy consumption before	-	-	-	158	-	
Energy consumption after	-	-	-	32	-	
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL...	-	-	-	19400	-	
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ID to be filled by BEE	Title of the measure		Sector : Chlor Alkali		
Year to be filled by BEE	Reduction in Impeller Diameter of Cooling Tower Pump in HCL area		Technology : Asahi Kasei		
Description of the energy conservation measure:					
Cooling tower Pump performance of HCL plant area was reviewed during internal energy audit. Possibility of reduction in impeller diameter was observed. Pump characteristics with flow requirements studied. Power saving has been achieved after reduction in Impeller diameter.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
N.A.					
Agency that executed the project (with complete address and email) : In-house					
Total investment, Rs.: 0.10 Lacs			Year of implementation : 2006-07		
First year energy cost savings, Rs.: 4.58 Lacs					
First year other savings, Rs.: Nil					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	735	-	-	-	-
Energy consumption after	563	-	-	-	-
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL...	2.67	-	-	-	-
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ID to be filled by BEE	Title of the measure Reduction in Operating Hours of Filter Back Wash Pump (P-141)	Sector : Chlor Alkali			
Year to be filled by BEE		Technology : Asahi Kasei			
Description of the energy conservation measure:					
<p>Body feed solution needs to be prepared by mixing brine & alpha cellulose. Earlier for preparation of body feed solution, pump was used for transferring brine solution from adjacent brine tank.</p> <p>Practice of using pump has now been changed. Brine is being transferred to body feed tank by gravity instead of pump.</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
N.A.					
Agency that executed the project (with complete address and email) : In-house					
Total investment, Rs.: Nil			Year of implementation : 2006-07		
First year energy cost savings, Rs.: 0.02 Lacs					
First year other savings, Rs.: Nil					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	0.89 (net saving)	-	-	-	-
Energy consumption after		-	-	-	-
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL...	2.67	-	-	-	-
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