




Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure	Sector Petrochemical (Capro-II plant).				
Year to be filled by BEE	Proposal for installation of VAHP unit in HAS plant, CEP.	Technology Absorption.....				
Description of the energy conservation measure:						
To reduce Chilled Water temperature, Vapour Absorption Heat Pump (VAHP) working on excess waste steam was installed. This resulted in to stoppage of running of refrigeration compressors.						
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification			
						
Agency that executed the project (with complete address and email):						
Total investment, Rs.: 80 lacs			Year of implementation: 2006-07			
First year energy cost savings, Rs.: 52.71 lacs						
First year other savings, Rs.: Nil						
On annual basis		kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before		1928				
Energy consumption after		32				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...		Rs. 2.78				
Company complete address: Gujarat State Fertilizers & Chemicals Limited. P.O. Fertilizer nagar, Dist. Vadodara, Gujarat Pin. 391750.					We authorise Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr.G.N.Desai, GM(D & TS, Inst. & PU)					Signature Sd/- Date 20/10/07	


Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure	Sector Petrochemical (Capro-I plant).				
Year to be filled by BEE	Replacement of Cooling Water pumps by high efficiency and high capacity units.	Technology				
Description of the energy conservation measure:						
<p>The Cooling Water pumps in Caprolactam-I Plant were of low efficiency. Moreover there was a gradual increase in demand for CW due to increase in the plant capacity. Replacement of pumps carried out with higher capacity & efficiency, which resulted into power saving.</p>						
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification			
						
Agency that executed the project (with complete address and email):						
Total investment, Rs. 166 Lacs.			Year of implementation: 2006-07			
First year energy cost savings, Rs.: 35.36 lacs						
First year other savings, Rs.: Nil						
On annual basis		kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before		7600				
Energy consumption after		6328				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...		Rs. 2.78				
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Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure		Sector Petrochemical (Mel-I plant).		
Year to be filled by BEE	Vapor NH₃ supply from Mel-1 plant to DAP.		Technology		
Description of the energy conservation measure:					
Byproduct ammonia is compressed, reliquified & supplied to NH ₃ network. A system to supply vapor ammonia from Melamine plant to DAP lined up bypassing compressor / liquefaction. This resulted into power saving.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email):					
Total investment, Rs. 2.49 Lacs.			Year of implementation: 2006-07		
First year energy cost savings, Rs.: 5.40 lacs					
First year other savings, Rs.: Nil					
On annual basis	kWh 000'	Coal (Tons)	Gas Sm ³	Oil (kL)	Other
Energy consumption before	2392		0.26 lacs		
Energy consumption after	2256		Nil		
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	Rs. 2.78		Rs. 6.43		
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Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure		Sector Fertilizer (Urea plant).		
Year to be filled by BEE	Energy saving by replacement of 2.5K CT pumps in Urea plants.		Technology		
Description of the energy conservation measure:					
In Urea plant, CT pumps in hot & cold well basins were replaced in phased manner by higher efficiency one. Power saving realized.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email):					
Total investment, Rs. 15.75 Lacs.			Year of implementation: 2006-07		
First year energy cost savings, Rs.: 10.45 lacs					
First year other savings, Rs.: Nil					
On annual basis	kWh 000'	Coal (Tons)	Gas Sm ³	Oil (kL)	Other
Energy consumption before	1122				
Energy consumption after	765				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	Rs. 2.78				
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Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure	Sector Fertilizer (Urea plant).			
Year to be filled by BEE	Elimination of Bucket Elevator (XUT-403) in Urea-II plant.	Technology			
Description of the energy conservation measure:					
Belt conveyor was installed to eliminate the Bucket Elevator in order to minimize maintenance cost & to save power. Power saving realized.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email):					
Total investment, Rs. 9.70 Lacs.			Year of implementation: 2006-07		
First year energy cost savings, Rs.: 1.56 lacs					
First year other savings, Rs.: Nil					
On annual basis	kWh 000'	Coal (Tons)	Gas Sm ³	Oil (kL)	Other
Energy consumption before	56				
Energy consumption after	Nil				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	Rs. 2.78				
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Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure		Sector Fertilizer (Urea plant).			
Year to be filled by BEE	Provision of a separate flash steam line for saving steam in hot water tank in Urea-1 plant.		Technology			
Description of the energy conservation measure:						
Steam generated from flashing of condensate is diverted to hot water system replacing boiler steam. Steam saving is achieved.						
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification			
						
Agency that executed the project (with complete address and email):						
Total investment, Rs. 0.44 Lacs.			Year of implementation: 2006-07			
First year energy cost savings, Rs.: 37.03 lacs						
First year other savings, Rs.: Nil						
On annual basis	kWh 000'	Coal (Tons)	Gas Sm ³	Oil (kL)	Other	
Energy consumption before			5.76 lacs Sm ³			
Energy consumption after			Nil			
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...			6.43			
Company complete address:				We authorise Bureau to use this information for dissemination		
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Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure	Sector Petrochemical (Capro-II plant).				
Year to be filled by BEE	Power saving by stopping transfer pumps and using circulation pumps for the dual purpose, in different columns of Lactam P&B, Capro- 2 plant.	Technology				
Description of the energy conservation measure: In Original system two pumps were operating – one for withdrawal and another for circulation. Change in system and in operation practice carried out to run only circulation pump for both the purpose and to stop withdrawal pump. Such changes in three columns resulted in to power saving.						
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification			
						
Agency that executed the project (with complete address and email):						
Total investment, Rs. 0.71 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 Sm ³	Oil (kL)	Other
Energy consumption before		29				
Energy consumption after		Nil				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...		Rs. 2.78				
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Energy Conservation Measure implemented in 2006-2007

ID to be filled by BEE	Title of the measure	Sector Acid (SA-III plant).			
Year to be filled by BEE	Replacement of Cooling water pumps in Sulphuric acid – III plant.	Technology			
Description of the energy conservation measure: Replacement of existing old and inefficient pumps with higher efficiency pumps carried out. Such modification resulted in to power saving/					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email):					
Total investment, Rs. 15.89 Lacs.			Year of implementation: 2006-07		
First year energy cost savings, Rs.: 2.78 lacs					
First year other savings, Rs.: Nil					
On annual basis	kWh 000'	Coal (Tons)	Gas Sm ³	Oil (kL)	Other
Energy consumption before	960				
Energy consumption after	860				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	Rs. 2.78				
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