

Energy Conservation Measure implemented in 2007

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

ID to be filled by BEE	Title of the measure Screw Compressor with VFD	Sector : Petrochemicals
Year to be filled by BEE		Technology : Lubricants
Description of the energy conservation measure:		
<p>The plant was equipped with one no. Atlas Copco make air compressor of 48 CFM capacity & 5 nos. Ingersoll Rand / Khosla make air compressors of 7 to 15 CFM capacities located at various points. The Atlas Copco compressor was connected to three filling lines. Any breakdown of this compressor results in stoppage of filling activity on these three critical lines due to non availability of stand by compressor. The total power consumption of these air compressors was found to be 180 units per day. The installation of new 135 CFM air compressor in synchronization with 48 CFM air compressor with one m³ air receiver resulted in maintaining the buffer. Due to this, the plant compressed air requirements were met just by running 48 CFM air compressor. The pressure range set between 6.5 to 7.5 bar for 48 CFM air compressor and 135 CFM VFD driven air compressor starts only when pressure drops to 6.0 bar. The average power consumption after this arrangement found to be 150 Units per day.</p>		
Picture/ sketch/ drawing before modification n (if available)	Picture/ sketch/ drawing after modification	
	<div style="display: flex; justify-content: space-around;">   </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;">  </div>	

Agency that executed the project (with complete address and email):					
Atlas Copco India Ltd. 16, Race Course Road, Guindy, Chennai – 600 032. Tel.: 044 – 22453147, 22440146. E.Miail : atlas ace@eth.net					
Year of implementation: 2007					
Total Investment : Rs. 8.0 lacs/-					
First year energy cost savings, Rs.: Nil					
First year other savings, Rs.: Nil					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	36.00				No Fall Back Option, Poor Quality Air, High B/D of Pneumatic Components
Energy consumption after	30.00				Stand by arrangement, high quality dry air & lesser B/D of Pneumatic components.
Energy tariff, Rs/ kWh ...	3.50				
Company complete address: Castrol India Ltd. 10, Elaiya Mudali Street, Tondiarpet, Chennai – 600 081. Tel.: 044 – 25956644, 25950073. Fax : 044 – 25950072. Contact person who could be contacted for more information: Santhosh Kumar, Engineering Manager. Santhosh_kumar@castrol.co.in				We authorise Bureau to use this information for dissemination Signature Date	

Note: Please submit this sheet separately for each Energy Conservation Measure implemented in 2007-2008 and a CD containing the above information may be please be enclosed.

Energy Conservation Measure implemented in 2007

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


ID to be filled by BEE	Title of the measure Energy Efficient Tubelights	Sector Petrochemicals.....
Year to be filled by BEE		Technology Lubricants.....
Description of the energy conservation measure: As an energy conservation measure, we are replacing all conventional tubelights in the plant by energy efficient tubelights in a phased manner. These energy efficient tubelights are coming with electronic ballast and can be fitted directly to the existing conventional tubelight fittings. These tube lights consume around 45% less electricity than conventional tube lights. The life of these tube lights is around 18,000 burning hours as against 4,000 burning hrs of the conventional tube lights. This also reduces the re-lamping cost. The reduced connected load also reduces the maximum demand.		
Picture/ sketch/ drawing before modification (If available)	Picture/ sketch/ drawing after modification	
	<div style="display: flex; justify-content: space-around;">   </div>	
Agency that executed the project (with complete address and email): South India Marketing Corporation, (Authorised Dealer : Asian Electronics Ltd.) Kings Park, 10, Ganga Nagar First Street, Chennai – 600 024. Tel.: 044 – 24727084. Fax : 044 – 24727085. E.mail : simachennai@vsnl.net		
Total investment: Rs.:0.22 lacs/-	Year of implementation: 2007	

First year energy cost savings, Rs.: 6,000/- (Part of Year 2007)					
Other Benefits : Reduction in Re-Lamping Cost.					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	4.87				
Energy consumption after	2.52				Reduction in Re-lamping Cost.
Energy Tariff, Rs/ KWH	3.5				
Company complete address: Castrol India Ltd., 10, Elaiya Mudali Street, Tondiarpet, Chennai – 600 081. Tel.: 044 – 25956644, 0073 Fax : 044 – 25950072. Contact person who could be contacted for more information: Santhosh Kumar, Engineering Manager Santhosh_kumar@castrol.co.in				We authorise Bureau to use this information for dissemination Signature Date	

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Energy Conservation Measure implemented in 2007

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


ID to be filled by BEE	Title of the measure Internal Gear Pumps for High Viscosity Additives	Sector Petrochemicals.....
Year to be filled by BEE		Technology Lubricants.....
Description of the energy conservation measure: The two different types of high viscosity additives received through tankers had been unloaded in storage tanks using two nos. 100 lpm capacity pumps. The approximate consumption of these additives is around 1500 kL per annum. The same pumps were used for transfer of these additives from storage tanks to blenders. The approx. quantity additives transferred by these pumps were around 3000 KL per annum. The average running time was around 500 hrs per annum. In order to reduce tanker unloading time, transfer time and energy conservation, these pumps were replaced by energy efficient internal gear pumps of 400 lpm capacity. These pumps are driven by 15 HP motor as against 7.5 HP motors used for old pumps. With the installation of new pumps, the running time of these pumps reduced to 125 hrs. This resulted in energy saving of around 2,813 KWHRs per annum.		
Picture/ sketch/ drawing before modification (If available)	Picture/ sketch/ drawing after modification	
		
Agency that executed the project (with complete address and email): Fabriken Agencies Pvt. Ltd., (Authorised Dealer for Johnson Pumps.) Old No. 11, New No. 21, 7 th Cross Street, Shastri Nagar, Adyar, Chennai – 600 020. Tel.: 044 – 24460602, 24462605. Fax : 044 – 42061359. E.mail : fabriken@touchtelindia.net.		
Total investment: Rs.:4.40 lacs/-	Year of implementation: 2007	

First year energy cost savings, Rs.: 7,750/- (Part of Year 2007)					
Other Benefits : Reduction in Re-Lamping Cost.					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	5.63				
Energy consumption after	2.81				Reduction in transfer time, tanker unloading time, higher utilization of tankers.
Energy Tariff, Rs/ KWH	3.5				
Company complete address: Castrol India Ltd., 10, Elaiya Mudali Street, Tondiarpet, Chennai – 600 081. Tel.: 044 – 25956644, 0073 Fax : 044 – 25950072. Contact person who could be contacted for more information: Santhosh Kumar, Engineering Manager Santhosh_kumar@castrol.co.in				We authorise Bureau to use this information for dissemination Signature Date	

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

ID to be filled by BEE	Title of the measure Twin Screw Pumps for Low Viscosity Oils	Sector Petrochemicals.....
Year to be filled by BEE		Technology Lubricants.....
Description of the energy conservation measure: The two nos. more than 10 years old inefficient pumps driven by 20 HP motors were replaced by energy efficient twin screw pumps of same capacity driven by 15 HP motors. This was done to eliminate recurring repair costs, ensure reliability to plant operations and energy conservation. The approximate savings arising out of the same is around 3,600 units per annum. The connected load reduced by 10 HP.		
Picture/ sketch/ drawing before modification (If available)	Picture/ sketch/ drawing after modification	
		
Agency that executed the project (with complete address and email): Tushaco Pumps Pvt. Ltd., 17/1, 3 rd Floor, Wellington Estates Building, Opp. Ethiraj College, Ethiraj Salai, Egmore, Chennai – 600 105. Tel.: 044 – 28276512. Fax : 044 – 28231945. E.mail : tushacoennai@tushacopumps.cpm.		
Total investment: Rs.:2.00 lacs/-	Year of implementation: 2007	

First year energy cost savings, Rs.: 7,750/- (Part of Year 2007)					
Other Benefits : Reduction in Re-Lamping Cost.					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	14.40				
Energy consumption after	10.80				Increased reliability, relatively maintenance free.
Energy Tariff, Rs/ KWH	3.60				
Company complete address: Castrol India Ltd., 10, Elaiya Mudali Street, Tondiarpet, Chennai – 600 081. Tel.: 044 – 25956644, 0073 Fax : 044 – 25950072. Contact person who could be contacted for more information: Santhosh Kumar, Engineering Manager Santhosh_kumar@castrol.co.in				We authorise Bureau to use this information for dissemination Signature Date	

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