

Energy Conservation Measure implemented in 2007-2008



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

ID to be filled by BEE	Title of the measure Trained to gain energy Conservation	Sector ...Automobile.....
Year to be filled by BEE		Technology
Description of the energy conservation measure: The Bend Cell was operated with two shift schedule to produce 4500nos/month . Now with the trained persons it was operated in single shift to produce 3750 nos /month with single shift operation. Where 150000Kwh /annum was conserved.		
NA	NA	
Agency that executed the project (with complete address and email): mohan.a@emcontechologies.com		
Total investment, Rs.:Nil	Year of implementation:2007-08	
First year energy cost savings, Rs.:5.25 lacs		
First year other savings, Rs.:		
On annual basis	kWh 000'	Coal (Tons)
Energy consumption before	150000	
Energy consumption after	Nil	
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	3.5	
Company complete address: Emcon Technologies India Private Limited 17 & 18 , sengundrum Industrial Area Melrosapuram S.P. Koil Post -603 204 . Kanchipuram district.		We authorize Bureau to use this information for dissemination Signature Date
Contact person who could be contacted for more information: Mr.Mohan ,Manager -Maintenance		

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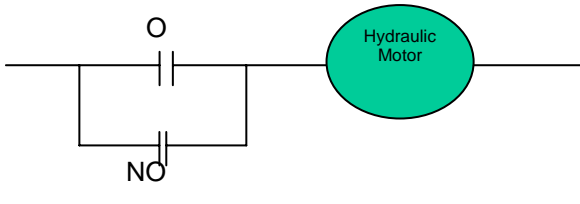
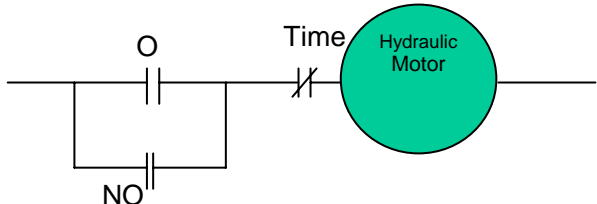
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ID to be filled by BEE	Title of the measure	Sector : Automobile			
Year to be filled by BEE	Elimination of waste Energy from Plant street light.	Technology : Timer Control			
Description of the energy conservation measure:					
<p>The Plant street and safety location light fittings of 1450 watts were provided with automatic timer controlled operation to eliminated the wastage energy . With the savings of 1300 units/annum from the un-required hours .</p>					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): mohan.a@emcontechologies.com					
Total investment, Rs.:4.0 Thousand			Year of implementation:2007-08		
First year energy cost savings, Rs.:4.6 Thousand					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	1300				
Energy consumption after	Nil				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	3.5				
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ID to be filled by BEE	Title of the measure Idle motor running energy conservation	Sector : Automobile.			
Year to be filled by BEE		Technology PLC Program			
Description of the energy conservation measure: The 16nos of hydraulic power pack motors in shop floor Machines were provided three minutes timer to stop during idle or any quality, downtime periods . the savings achieved 85200 Kwh /annum.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): mohan.a@emcontechologies.com					
Total investment, Rs.:			Year of implementation:2007-08		
First year energy cost savings, Rs.: 2.9 lac					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	85200				
Energy consumption after	Nil				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	3.5				
Company complete address: Emcon Technologies India Private Limited 17 & 18 , sengundrum Industrial Area Melrosapuram S.P. Koil Post -603 204 . Kanchipuram district.				We authorize Bureau to use this information for dissemination	
Contact person who could be contacted for more information: Mr.Mohan ,Manager -Maintenance				Signature	
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ID to be filled by BEE	Title of the measure	Sector : automobile.			
Year to be filled by BEE	Elimination of waste Energy using climatic conditions	Technology : Climatic usage			
Description of the energy conservation measure: The canteen ,quality ,production office air-conditioners used numbers were reduced during the climatic season winter, spring autumn seasons not operated to eliminated the wastage energy . With the savings o 21600 units/annum from the monsoon seasons.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): mohan.a@emcontechologies.com					
Total investment, Rs.: Nil			Year of implementation:2007-08		
First year energy cost savings, Rs.:0.75 lacs					
First year other savings, Rs.:The Reduced A/C nos rented charges is eliminated					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	21600				
Energy consumption after	Nil				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	3.5				
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(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	Title of the measure	Sector :Automobile			
Year to be filled by BEE	Cooling tower motor for energy conservation	Technology			
Description of the energy conservation measure:					
The cooling tower motor with 7.5 hp motor was converted to 5.0 HP with which the required pressure is achieved and the savings of 5700Kwh/annum achieved.					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): mohan.a@emcontechologies.com					
Total investment, Rs.:NIL			Year of implementation:2007-08		
First year energy cost savings, Rs.:0.25 lac					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	5700				
Energy consumption after	Nil				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	3.5				
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(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	Title of the measure	Sector : Automobile.				
Year to be filled by BEE	The synchronization of exhaust motor for energy conservation	Technology				
Description of the energy conservation measure:						
The Robo cell Exhaust blower used with 3 HP motor in three location was synchronized through one motor exhaust blower for the cell and the savings of 15876 Kwh /annum is achieved.						
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification			
Not Available						
Agency that executed the project (with complete address and email): mohan.a@emcontechologies.com						
Total investment, Rs.:NIL			Year of implementation:2007-08			
First year energy cost savings, Rs.:0.55 lac						
First year other savings, Rs.:						
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other	
Energy consumption before	15876					
Energy consumption after	Nil					
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	3.5					
Company complete address: Emcon Technologies India Private Limited 17 & 18 , sengundrum Industrial Area Melrosapuram S.P. Koil Post -603 204 . Kanchipuram district.				We authorize Bureau to use this information for dissemination		
Contact person who could be contacted for more information: Mr.Mohan ,Manager -Maintenance				Signature		
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(To be filled up separately for each Energy Conservation Measure)

ID to be filled by BEE	Title of the measure Elimination of waste Energy	Sector Automobile.			
Year to be filled by BEE		Technology			
Description of the energy conservation measure: The Shop floor office air-conditioners were provided weekly timer controlled operation to eliminated the wastage energy . With the savings o f 6656 units/annum from the un-utilized hours and weekly holiday .					
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification		
Not Available					
Agency that executed the project (with complete address and email): mohan.a@emcontechologies.com					
Total investment, Rs.:4000 Thousand			Year of implementation:2007-08		
First year energy cost savings, Rs.:0.23 lacs					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	18656				
Energy consumption after	12000				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	3.5				
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Contact person who could be contacted for more information: Mr.Mohan ,Manager -Maintenance				Signature	
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ID to be filled by BEE	Title of the measure Gate Light energy conversation for energy conservation		Sector : Automobile			
Year to be filled by BEE			Technology			
Description of the energy conservation measure: The gate show light fitting were 240 watts which was converted to 22 watt PL fitting were the energy saving is 1000Kwh / annum						
Picture/ sketch/ drawing before modification (if available)			Picture/ sketch/ drawing after modification			
Not Available						
Agency that executed the project (with complete address and email): mohan.a@emcontechologies.com						
Total investment, Rs.:NIL			Year of implementation:2007-08			
First year energy cost savings, Rs.:400.00/annum						
First year other savings, Rs.:						
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other	
Energy consumption before	115					
Energy consumption after	Nil					
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	3.5					
Company complete address: Emcon Technologies India Private Limited 17 & 18 , sengundrum Industrial Area Melrosapuram S.P. Koil Post -603 204 . Kanchipuram district.				We authorise Bureau to use this information for dissemination		
Contact person who could be contacted for more information: Mr.Mohan ,Manager -Maintenace				Signature		
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ID to be filled by BEE	Title of the measure	Sector : Automobile			
Year to be filled by BEE	Elimination of waste Energy from Building outer light	Technology			
Description of the energy conservation measure: The Building outer light fittings of 770 watts was provided automatic timer controlled operation to eliminated the wastage energy . With the savings of 1100 units/annum from the un-required hours .					
Picture/ sketch/ drawing before modification <small>(if available)</small>			Picture/ sketch/ drawing after modification		
					
Agency that executed the project (with complete address and email): mohan.a@emcontechologies.com					
Total investment, Rs.:4.0 Thousand			Year of implementation:2007-08		
First year energy cost savings, Rs.:3.9 Thousand					
First year other savings, Rs.:					
On annual basis	kWh 000'	Coal (Tons)	Gas Nm ³	Oil (kL)	Other
Energy consumption before	1100				
Energy consumption after	Nil				
Energy tariff, Rs/ kWh/ Ton/ Nm ³ / kL ...	3.5				
Company complete address: Emcon Technologies India Private Limited 17 & 18 , sengundrum Industrial Area Melrosapuram S.P. Koil Post -603 204 . Kanchipuram district.				We authorize Bureau to use this information for dissemination Signature Date	
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Cost Saving Project Calculations

The Shop Floor Office A/C to be operated with the Weekly Timer and holiday Programed controlled system during working hours

Location : First Floor Office

Status	A/C	KW	Total
Before	6	16	16
After	6	16	16

Total usage of the light	300	Day
The Switching Hours per day	2.5	Hours
Overall switching hours per annum in working days	750	Hours
Overall switching hours per annum in Leave days	416	Hours
The TNEB units cost per unit	3.5	Rs

Before Modification		
The switching units for all the area for Hrs	18656	Units
The Total energy cost	65296	Rs

After Modification		
The switching units for all the area for Hrs	12000	Units
The Total energy cost	42000	Rs
The Overall cost savings are as Follows	23296	Rs

Cost Saving Project Calculations

The Canteen ,production and quality A/C has been put OFF from July to Feb

Location : Canteen ,Production,quality

Status	M/C	KW	Total		
Before	9	9	9		
After	0	0	0		
			9	Kw	
Total usage of the A/C				240	Day
The Switching Hours per day				10	Hours
Overall switching hours per annum				2400	Hours
The TNEB units cost per unit				3.5	Rs
Before Modification					
The switching units for all the area for Hrs				21600	Units
The Total energy cost				75600	
After Modification					
The switching units for all the area for Hrs				0	Units
The Total energy cost				0	
The Overall cost savings are as Follows				75600	

Cost Saving Project Calculations

The Cooling tower pump motor was converted from 7.5 HP to 5 HP

Location : Cooling Tower

Status	M/C	KW	Total		
Before	1	5.5	5.5		
After	1	3.6	3.6		
			1.9		
Total usage of the Cooling tower Motor				300	Day
The Switching Hours per day				10	Hours
Overall switching hours per annum				3000	Hours
The TNEB units cost per unit				3.5	Rs
Before Modification					
The switching units for all the area for Hrs				5700	Units
The Total energy cost				19950	Rs
After Modification					
The switching units for all the area for Hrs				0	Units
The Total energy cost				0	Rs
The Overall cost savings are as Follows				19950	Rs

EMCON Technologies

Cost Saving Project Calculations

The gate Show Light fitting to be made conversion to 11Watts PL bulb

Locations : Gate show Light

Status	Bulb	KW	Total
Before	6	0.04	0.24
After	2	0.011	0.022

Total usage of the light	365	Day
The Switching Hours per day	12	Hours
Overall switching hours per annum	4380	Hours
The TNEB units cost per unit	3.5	Rs

Before Modification

The switching units for all the area for Hrs	1051.2	Units
The Total energy cost	3679.2	Rs

After Modification

The switching units for all the area for Hrs	96.36	Units
The Total energy cost	337.26	Rs

The Overall cost savings are as Follows	3341.9	Rs
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Cost Saving Project Calculations			
The Street light 17nos of Higher watts Sodium vapour Light fitting to be put OFF during day time			
The savings calculations			
Location : Street Light			
Status	Bulb	KW	Total
Before	17	1.45	1.45
After	0	0	0
Total usage of the light			
		365	Day
The Switching Hours per day			
		2.5	Hours
Overall switching hours per annum			
		912.5	Hours
The TNEB units cost per unit			
		3.5	Rs
Before Modification			
The switching units for all the area for Hrs		1323.1	Units
The Total energy cost		4630.9	Rs
After Modification			
The switching units for all the area for Hrs		0	Units
The Total energy cost		0	Rs
The Overall cost savings are as Follows			
		4630.9	Rs

EMCON Technologies

Cost Saving Project Calculations					
The outer buliding light 11 nos of High watts Sodium Vapour Light fitting to be put OFF un -utilized					
The savings calculations					
Locations : Outer Buliding Light					
Status	Bulb	KW	Total		
Before	11	0.77	0.77		
After	0	0	0		
Total usage othe light				365	Day
The Switching Hours per day				4	Hours
Overall switching hours per annum				1460	Hours
The TNEB units cost per unit				3.5	Rs
Before Modification					
The switching units for all the area for Hrs				1124.2	Units
The Total energy cost				3934.7	Rs
After Modification					
The switching units for all the area for Hrs				0	Units
The Total energy cost				0	Rs
The Overall cost savings are as Follows				3934.7	Rs

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Cost Saving Project Calculations				
The Robo Cabin Exhaust Blower of 9 HP was Converted to operate with 3 HP				
Location :Robo Cell				
Status	M/C	KW	Total	
Before	3	2.2	6.6	
After	1	2.2	2.2	
			4.4	Kw
Total usage of the Exhaust Blower Motor				300 Day
The Switching Hours per day				12 Hours
Overall switching hours per annum				3600 Hours
The TNEB units cost per unit				3.5 Rs
Before Modification				
The switching units for all the area for Hrs				15840 Units
The Total energy cost				55440 Rs
After Modification				
The switching units for all the area for Hrs				0 Units
The Total energy cost				0 Rs
The Overall cost savings are as Follows				55440 Rs

Cost Saving Project Calculations**The Idle time stoppage during break ,down hours**

Location : Shop Floor Machine

Status	M/C	KW	Total	
Before	16	142	142	
After	16	0	0	
			142	Kw
Total usage of the Hydraulic Motors				300 Day
The Switching Hours per day				2 Hours
Overall switching hours per annum				600 Hours
The TNEB units cost per unit				3.5 Rs
Before Modification				
The switching units for all the area for Hrs				85200 Units
The Total energy cost				298200 Rs
After Modification				
The switching units for all the area for Hrs				0 Units
The Total energy cost				0 Rs
The Overall cost savings are as Follows				298200 Rs

EMCON Technologies

Cost Saving Project Calculations			
The Two shift operation to be made single shift			
Location : Bend Cell			
Status	M/C	KW	Total
Before	All	62.5	62.5
After	0	0	0
Total usage of the Machines	300	Day	
The Switching Hours per day	8	Hours	
Overall switching hours per annum	2400	Hours	
The TNEB units cost per unit	3.5	Rs	
Before Modification			
The switching units for all the area for Hrs	150000	Units	
The Total energy cost	525000	Rs	
After Modification			
The switching units for all the area for Hrs		Units	
The Total energy cost	0	Rs	
The Overall cost savings are as Follows	525000	Rs	