NATIONAL ENERGY CONSERVATION AWARD - 2017 (LARGE/ MEDIUM /SMALL SCALE INDUSTRY)

Award for Excellence in Energy Conservation and Management

OBJECTIVE

To give national recognition to the selected Industrial units who have made systematic and serious attempts for efficient utilization and conservation of energy during the years 2014-15, 2015-16 and 2016-17.

THE AWARDS

First prize and Second Prize are proposed to be given in each sub-sector in the form of gold and Silver Plaque respectively. Third Prize in the form of "Certificate of Merit". The performance of units would be judged through the questionnaire (format enclosed) which would be evaluated by an Award Committee.

ELIGIBILITY

a) The scheme is open to all industrial units in the following sub-sectors:

Aluminum, Ceramics, Dairy, Fertilizers, Forging, Mining, Paints & allied products, Petroleum pipeline, Refinery, Soaps & Detergents and Automobile

Note: In case, less than 4 applications are received in any sub-sector, they will be grouped under General Category (Sub sectors of EC award) and be evaluated as per the Part - I and Part - II of the scheme.

Criteria for Judging Merit

- a) Evaluation of the nominations will be done in two phases, based on the Evaluation and Weight age criteria as given in Annexure-A.
- b) In the first phase, evaluation will be made on the basis of the preliminary information, as required in Part I and the best 10% of the participating industries (subject to minimum of 4 units) from each sector would be short listed.
- c) These shortlisted industries would then have to submit the details of the savings made and the projects implemented, as required in Part-II within 8 days from the date of intimation by BEE.
- d) The members of the Award Committee or their nominees may visit participating units for verification of data supplied, if felt necessary and it will be obligatory on the part of the participating units to provide necessary co-operation. The units have to bear all the expenditure in this connection.
- e) The Committee's decision would be final and no appeal would be entertained.

Instructions for Filling up the 'Award Questionnaire'

- a) The data required for the questionnaire pertains to the accounting years 2014-15, 2015-16 and 2016-17. If calendar year is the accounting year, then data should pertain to the years 2014, 2015 and 2016
- b) The enclosed questionnaire is only a format and thus information sought should be separately computer printed or neatly typed or to be downloaded from Website: www.beeindia.gov.in.
- c) The answers to the questions should be precise and specific and should be supplied in total compliance with the questionnaire format. The deviations may lead to improper evaluation or the rejection of the nomination.
- d) The information sought under any head should be highlighted under the same and no separate annexure should be attached.
- e) Each and every query mentioned in the questionnaire needs to be answered. Even, if answer is 'NO' or 'NOT APPLICABLE' the same may be stated, instead of ignoring it.
- f) The questionnaire should be filled in by a competent and responsible person of the company. The duly filled-in questionnaire should be signed by the Chief Executive of the company / industrial unit.

Submission of nomination:

Filled in questionnaire should reach the office of

Director General
Bureau of Energy Efficiency
4th Floor, Sewa Bhawan
R. K. Puram, New Delhi-110 066
Tel. No.: 011-2617 9699 (5 lines)
Fax No.: 011- 2617 8328, 2617 8352

Latest by **28th September**, **2017**

Note:

- The current year's Questionnaire is a revised version and contains some changes at appropriate places. Therefore, please do not use the last year's Questionnaire while submitting your application for consideration of Award
- 2. You may download the Questionnaire from www.beeindia.gov.in.
- 3. The filled in application can also be e-mailed at ecaward17@gmail.com and ecaward2017@rediffmail.com followed by submission of duly signed hard copy by post/courier at BEE office address.

Part 1 (To be submitted by 28th September, 2017 NATIONAL ENERGY CONSERVATION AWARD - 2017 (LARGE/MEDIUM/SMALL SCALE INDUSTRY) "Award Questionnaire"

1	Name of the Unit								
2	The Sector* to which unit's nomination should be considered								
*			If your organisation falls under two or more sub-sectors, please submit nomination of each unit separately for evaluation. Data provided under each nomination should be self contained and fully independent of the other nomination.						
3 (a)	Complete address of Unit's location (including Chief Executive's name & designation) with mobile, telephone, fax nos. & e-mail (All details to be submitted)								
3(b)	Year of Establishment								
3 (c)	Whether ISO 50001 Energy Management System Certified (Yes/No). In case Yes, pl indicate certification date and attached a copy of certificate								
4 (a)	Name, designation, address, mobile, telephone, fax nos. & e-mail of responsible person who could be contacted in connection with the application for Award (All details to be submitted)								
4 (b)	Name, designation, address, mobile, telephone,fax nos. & e-mail of Certified Energy Manager who has been designated as Energy Manager of the plant								
5	Production and capacity utilization details		11-14-	la stelled Osses elter	A - to - I Doo doo all - o	0/ 0			
Year	Products manufactured (Please list all the major products)		Units (Please specify)	Installed Capacity (a)	Actual Production (b)		pacity Utilisation (b/a) x 100		
2013- 14(Reference vear)			, , , , , , , , , , , , , , , , , , , ,	12/	147				
2014-15									
2015-16									
2016-17									
6	Energy Consumption details	2013-14	20	14-15	2015-1	16	2016-17		
6.1	Electricity Consumption Units (Lakhs kWh/ year)	1							
(A)	Purchased Electricity (Lakhs kWh/ year)								
(B)	Own Generation (Lakhs kWh/ year)								
a)	Through DG sets (Lakhs kWh/ year)								
b)	Through Steam and/or gas turbine route (please specify)(Lakhs kWh/ year)								
c)	Electricity supplied to the grid/ others (specify) (Lakhs kWh/ year)								
(C)	Own generated electricity consumption within the plant (Lakhs kWh/ year) [a +b-c]								
(D)	Total consumption of electricity (purchased + own generated electricity consumption within the plant) (Lakhs kWh/ year) ((A + C)								
(E)	Total Electricity Consumption in MTOE(Metric tonne of oil equivalent) ([6.1(D)*860]/100)								
6.2	Fuel Consumption for process heating	2013-14	20	14-15	2015-1	16	2016-17		
	For computing fuel consumption for process heating	It should not include fuel used for self generation of electring in case of steam being used from a cogeneration plant cal/kg - boiler feed water enthalpy, kcal/kg) / (Boiler effic	, the following relation	may be used: Fuel consu	imption for process heating	g, kg/year= (steam quar			
(A)	Coal								
(i)	Quantity used for process heating (tonnes/ year)								
(ii)	Weighted Av. Gross Calorific value (GCV) (kCal/ kg)								
(iii)	Total heat value of coal used (Million kCal/year) [A (i) x A (ii)]/1000								
(B)	Other purchased solid fuels (pl. specify)provide data of	on similar lines as indicated under 'Coal'							
(C)	Furnace Oil (FO)	2013-14	201	4-2015	2015-1	16	2016-17		
(i)	Quantity used for process heating (kL/ year)					·			
(ii)	Av. GCV (kCal/ kg)								
(iii)	Av. Heat value (kCal/ litre)								
(iv)	0.95 x C(ii) Total heat value of furnace oil (Million kCal/year) [C(i) x C(iii)]/1000								

(D)		o o o (F1	urchased) (if any)Provide da					
(E)	Natural Gas	2013-14	2014-15		2015-16		2016-17	
(i)	Quantity used for process heating (Lakh m³/ year)							
(ii) (iii)	Av. GCV (k Cal/ m³) Total heat value (Million kCal/year) [E(i) x E(ii)]/10							
(F)	Any other purchased gas (Say LPG et	c.)						
(G)	Gas generated as by product/ waste in	n the plant and used as fuel						
(i)	Name							
(ii)	Quantity (Lakh m ³ / year)							
(iii)	Av. GCV (kCal/ m³) Total heat value (Million kCal/year) [G(ii) x G(iii)]/10							
(H)	Solid waste generated in the plant and	d used as fuel						
(i)	Name	-						
(ii)	Quantity (tonnes/ year)							
(iii)	Weighted Av. Gross Calorific value (GCV) (kCal/ kg)							
(iv)	Total heat value used (Million kCal/year)							
(I)	Liquid effluent / waste generated in th	e plant and used as fuel						
(i)	Name							
(ii)	Quantity (kL/ year)							
(iii)	Av. GCV (kCal/ kg)							
(iv)	Av. Heat value (kCal/ litre) {Sp. gravity x I(iii)}							
(v)	Total heat value ,MkCal/year (Million kCal/year)				·	-		
	Total thermal energy consumption							
7	in Million kCal/ year	2013-14	2014-15		2015-16		2016-17	
(a)	6.2[A (iii) + C (iv) +E (iii)+ G (iv)+ H(iv)+ I (v) etc.]							
(b)	Total Thermal energy consumption in MTOE per year [7(a)/10]							
8	Achievement of energy savings from	n implementation of new Ene	rgy Efficiency Projects dur	ng the year 2014-17 (The	energy savings achieve	d shall only from	the projects which have t	
				during 2014-17)	nnual Fuel Savings			
	Year		Annual Electricity Saving (Lakh kWh)	Coal (Metric Tonnes)	FO/LSHS/HSD/RFO (kL)	Gas (Lakh m³)	Total (MkCal)	
(a)	2014-15							
(b)	2015-16	2015-16						
(c)	2016-17							
	Year	Year		Annual Energy Savings (Rs. Lakhs)		One time inve		
(a)	2014-15							
(b)	2015-16							
(c)	2016-17							
9		ergy consumption per unit p						
Year	Specific Electrical Energy Consumption in k (I)		Specific Thermal Energy kCal/to [Total Thermal Energy kcal/Actual Produ	onne** Consumption in Million	Specific Electric Consumption Reduction [9(a) (i) - 9(b) (i)	on over 2013-14	Specific Thermal Ener Consumption Reduction 2013-14 [9(a) (ii) - 9(b) (ii)]/ 9(a)	
2013-14								
2014-15								
Year	Specific Electrical Energy Consu [Total Electrical Energy Consumption in k (iii)		kCal/to [Total Thermal Energy	kCal/tonne** Consumption		Specific Electrical Energy snsumption Reduction over 2014-15 [9(c) (iii) - 9(d) (iii)]/ 9(c) (iii) [9(c) (iv) - 9 [9(c) (iv) - 9		
							2-(-) () 3(0) (14)3 0(0)	
2014-15								
2015-16	Once Min Flore 1 1 F	annal - In IABP " **	On selfic Th		0 15 5	-1 F	Specific Thermal Ener	
Year	Specific Electrical Energy Consumption in kWhitonne** [Total Electrical Energy Consumption in kWhi/Actual Production in tonne] (v)		Specific Thermal Energy kCal/t [Total Thermal Energy kcal/Actual Produ	onne** Consumption in Million	Specific Electrical Energy Consumption Reduction over 2015-16 [9(e) (v) - 9(f) (v)]/ 9(e) (v)		Specific Thermal Ener Consumption Reduction 2015-16 [9(e) (vi) - 9(f) (vi)]/ 9(e)	
	1				1			
2015-16								
2015-16 2016-17								
	MTOE=Metric Tonne of Oil Equivalent	ı						

or use actual units. For example, automobile industry may mention kWh and Million kCal/equivalent Vechicle (car, truck, bus, jeep, scooter etc.)

Note: (a) Refinery and Petrochemical sector should also report specific energy consumption in MBTU/Bbl/NRGF or Energy Index as applicable

Year	MBTU/Bbl/NRGF (or any other Energy Index as applicable)
2013-14	
2014-15	
2015-16	
2016-17	

(b)	Fertilizer Plants should also report Specific Energy Consumption i	n Million kCal/tonne of Amr	monia and Urea
	Year	*Million kCal/tonne of	*Million kCal/tonne of Urea
		Ammonia	Million Roa/tollile of orea
	2013-14		
	2014-15		
	2015-16		
	2016-17		

Note:

*1 *2

Please specify feed stock base Please mention Specific Energy Consumption of other products (if any) separately

	10	Summary	ase summarize the	information and d	ata provided in this	questionnaire as per the for	mat given below:
		<u> </u>	NATIONAL	ENERGY CO	ONSERVATIO	ON AWARD -2017	
				SUMI	MARY SHEET		
	Unit Name					Sub-Sector	
	a.	Specific Energy C (S.No. 9)	onsumption (SEC)	Reduction during t	he period 2014 - 20	17	
		Year	Product	Specific Electrical Energy Consumption kWh/ tonne	% Reduction over preceding year	Specific Thermal Energy Consumption Million kCal/ tonne	% Reduction over preceding year
	2	2013 -14					
	2	2014 - 15					
	2	2015 - 16					
		2016 - 17					
	Remarks: Us	e actual units as req	uested in Note unde	er SI No. 9 in the ca	se of Refinery, Integr	ated steel plants, Cement pla	nts and Fertilizer plants.
	b.	Absolute Savings	and its percentage	over the year 2014	1-17 energy consum	ption	
		Elect. Saving (Lakh kWh) (i)	Thermal (Fuel) Saving (Million kCal) (ii)	Elect.Consumption (lakh kWh) (iii)	Thermal (Fuel) Consumption (Million kCal) (iv)	% Elect.Saving (savings achieved/ electricity consumption over 2013-14) b(i) / a (iii) x 100	% Thermal (Fuel) Saving (savings achieved/ thermal energy consumption over 2013- 14) b (ii)/ a (iv) x 100
a	2013-14						
b	2014-15						
		Elect. Saving (Lakh kWh) (i)	Thermal (Fuel) Saving (Million kCal) (ii)	Elect.Consumption (lakh kWh) (iii)	Thermal (Fuel) Consumption (Million kCal) (iv)	% Elect.Saving (savings achieved/ electricity consumption over 2014-15) b(i) / a (iii) x 100	% Thermal (Fuel) Saving (savings achieved/ thermal energy consumption over 2014- 15) b (ii)/ a (iv) x 100
а	2014-15						
b	2015-16						
		Elect. Saving (Lakh kWh) (i)	Thermal (Fuel) Saving (Million kCal) (ii)	Elect.Consumption (lakh kWh) (iii)	Thermal (Fuel) Consumption (Million kCal) (iv)	% Elect.Saving (savings achieved/ electricity consumption over 2015-16) b(i) / a (iii) x 100	% Thermal (Fuel) Saving (savings achieved/ thermal energy consumption over 2015- 16) b (ii)/ a (iv) x 100
a	2015-16						
b	2016-17						
	Soler	mnly declare that to t	he best of my know	ledge the informatio	n given in the Award	Questionnaire (National Ener	gy Conservation Award-2017) the
e: :e:							Name & designation of the Chief Executive Mobile No.
iace.							Mobile No

	NATIONAL	To be submitted a ENERGY CONSE E/MEDIUM/SMALI "Award Quest	RVATION L SCAL	ON AW E INDU	ARD - :	2017			
1	Name of the Unit								
2	The Sector to which unit's nomination should be considered								
3	Complete address of Unit's location (including Chief Executive's name & designation) with mobile,telephone,fax nos. & e-mail								
4	Name, designation, address, mobile, telephone, fax nos. & e-mail of responsible person who could be contacted in connection with the application for Award								
5	Please provide details in the following format on innovation, energy substitution and renewable energy Part II - Annexure for the Energy Conservation Measure	systems commissioned du	uring the ye	ar 2014-20					
				Achievement of Annual energy savings in 2014-1					
		ning of the projects			Fuels* Total				Investment incurred on
	Year of Commissioning of the projects			F.Oil (kL)	Gas (lakh Nm³)	Total fuel (MTOE)	savings (Rs. Lakhs)	the project Rs. (Lakhs)	
		(i) Please list the projects titl (ii) Please mention the achie						ole columns.	
	2014-15								
	2015-16								
								 	
	2016-17							<u> </u>	
	*	Doloto or odd fyelo oo tha		ha					
	I, Solemnly declare that to the bes Award-2017) thereto is correct and complete.	Delete or add fuels as the tof my knowledge the info	rmation giv	en in the A			(National E	nergy Conse	ervation
	Date:		(Signature	of the Ch	ief Executi	ve)			

DOCUMENTS ATTACHED:

Place:

- 1. Copies of Certificate pertaining to statutory requirements such as safety and pollution control for the period 2014- 17are enclosed.
- 2. A brief write up of the unit (not more than 3-4 pages) along with photographs depicting equipment / locations where energy efficiency activities have been undertaken and a CD containing the same is attached (Sample writeup may be seen at www.beeindia.gov.in)

Mobile No.

Organisation Seal

Name & designation of the Chief Executive

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Note: The Part-II and Part-II-Annexure to be kept ready and to be dispatched immediately after the intimation sent by BEE

(To be submitted along with Part –II after intimation by BEE)

Energy Conservation Measure implemented in 2016-17

(To be filled up separately for each Energy Conservation Measure implemented and to be **e-mailed at ecawards.2017@beenet.in, ecaward17@gmail.com** and **ecaward2017@rediffmail.com**)

ID to be filled by BEE	Title of the measure		Sector	r				
Year: 2016-17				Techno	nology			
Description of the energy of	onservation r	neasure:						
Picture/ sketch/ drawing (if available)	Picture/ sketch/ drawing before modification Picture/ sketch/ drawing after modification							
,								
Agency that executed the	oroject (with c	complete add	lress and em	ail):				
Total investment, Rs. Year of implementation:								
First year energy cost savi								
First year other savings, R	S.	—			0"	O.I.		
On annual basis	S	Electricity (kWh)	Coal (Tonnes)	Gas (Nm³)	Oil (kL)	Other		
Energy consumption before	e							
Energy consumption after								
Energy tariff, Rs/ kWh/ Tor	nnes/ Nm³/							
kL								
Plant/ Establishment comp	lete address:				We authoris use this info dissemination	rmation for		
Comtost managements as 141	المراجع والمراجع والمراجع	fau masus list	- w - 1		Signature			
Contact person who could	De contacted	ioi inore int	omalion:		Date			

Note: Please submit this sheet separately for each Energy Conservation Measure implemented in 2016-17 and a CD containing the above information may be enclosed.

Annexure - A

Evaluation and weightage criteria - LARGE/MEDIUM/SMALL Scale Industries					
S. No.	ITEM	Max 50 marks			
1	ENERGY SAVINGS - Electrical and Thermal				
i	Electrical Energy (EE) savings in 2014- 2017				
	% savings in EE over the previous year energy consumption(2014-17)	(20 marks)			
ii	Thermal energy savings in 2014-17				
	% savings in Thermal Energy over the previous year energy consumption(2014-17)				
2	SPECIFIC ENERGY CONSUMPTION REDUCTION				
i	% SEC reduction during 2016-17 over 2015-16	(20 marks)			
ii	% SEC reduction during 2015-16 over 2014-15				
iii	% SEC reduction during 2014-15 over 2013-14				
3	Specific Energy Consumption Comparisons with the best reported values among the	(8 marks)			
	participating units	(o marks)			
4	ISO 50001 EnMs certified units	(2 marks)			

- NOTE: 1. The above evaluation and weightage criteria is common for all the participating units. However for some sectors, the application of the above E& W criteria may not be feasible due to certain peculiar characteristics of the concerned sectors. Therefore, Award Committee reserves the right to modify the criteria for a particular sector, which shall be uniformly applied to all the participating units of that sector.
 - 2. The distribution of weightage between specific electrical and thermal energy consumption reduction for a particular sector would be decided by the Award Committee
 - 3. For those particular sectors, where it is not feasible to compare SEC with best reported value, 50% of the weightage may be merged with S.No.-2 and the balance 50% with S.No.-1, or as decided by the Award Committee
 - 4. The participating units having negative specific electrical or thermal energy consumption will not be considered for the award.
 - 5. For all the evaluation criteria, if the difference between the first and second unit in the particular criteria is more than 10% in the percentage score, then the second best unit will be awarded 10% less marks than that of the first unit and prorate will start from that unit onward. Similarly, if the difference between second and third unit is also found to be more than 10%, the above methodology will be followed till the completion of the evaluation criteria of all the units
 - 6. If it is found that for a particular unit in a particular sector, % SEC reduction is exceptionally high mainly due to increased capacity utilization or changes in the manufactured product combination and is affecting the weightage of other units, Award Committee reserve the right to modify the Evaluation & Weightage criteria for that sector
 - 7 The weightage criteria for three years i.e. 2014-15, 2015-16 and 2016-17 will be in the ratio of 30:30:40