

STATE ENERGY CONSERVATION AWARD - 2011
(SMALL/ MEDIUM SCALE INDUSTRY)

"Award Questionnaire"

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	Production and capacity utilization details			
Year	Products manufactured <i>(Please list all the major products)</i>	Units (Please specify)	Installed Capacity (a)	Actual Production (b)
2009-10				
2010-11				
*	Specify only one sub-sector out of sectors as on page 1. If your organization 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.			
6	Energy Consumption details	2009-10	2010-11	
6.1	Electricity Consumption Units (Lakhs kWh/ year)			
(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 <i>(please specify)(Lakhs kWh/ year)</i>			
c)	Electricity supplied to the grid/ others (specify) (Lakhs kWh/ year)			
(C)	Own generated electricity consumption within the plant (Lakhs kWh/ year) B[a + b - c]			
(D)	Total consumption of electricity (purchased + own generated in the plant)(Lakhs kWh/ year) A + C			
(E)	Total Electricity Consumption in MTOE [(6.1(D))*860]/100			

6.2	Fuel Consumption for process heating	2009-10	2010-11
	(Note: It should not include fuel used for self generation of electricity and as a Raw Material)		
(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 (MTOE) [A (i) x A (ii)]/10000		
(B)	Other purchased solid fuels (pl. specify) provide data on similar lines as indicated under 'Coal'		
(C)	Furnace Oil	2009-10	2010-11
(i)	Quantity used for process heating (kL/ year)		
(ii)	Av. GCV (kCal/ kg)		
(iii)	Av. Heat value (kCal/ litre) 0.95 x C(ii)		
(iv)	Total heat value of furnace oil (MTOE) [C(i) x C(iii)]/10000		
(D)	Diesel/ Other oils (Purchased) (if any) Provide data on similar lines as indicated under 'Furnace Oil'		
(E)	Natural Gas	2009-10	2010-11
(i)	Quantity used for process heating (Lakh m ³ / year)		
(ii)	Av. GCV (k Cal/ m ³)		
(iii)	Total heat value (MTOE) [E(i) x E(ii)]/100		
(F)	Any other purchased gas (Say LPG etc.) Provide data on similar lines as indicated under 'natural gas'		
(G)	Gas generated as by product/ waste in the plant and used as fuel		
(i)	Name		
(ii)	Quantity (Lakh m ³ / year)		
(iii)	Av. GCV (kCal/ m ³)		
(iv)	Total heat value (MTOE) [G(ii) x G(iii)]/100		
(H)	Solid waste generated in the plant and used as fuel		
(i)	Name		
(ii)	Quantity (tonnes/ year)		
(iii)	Weighted Av. Gross Calorific value (GCV) (kCal/ kg)		
(iv)	Total heat value used (MTOE) [H(ii) x H(iii)]/10000		
(I)	Liquid effluent / waste generated in the 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 (MTOE) [I(ii) x I(iv)]/10000		
7	Total thermal energy consumption in MTOE per year	2009-10	2010 - 11
(a)	6.2[A (iii) + C (iv) +E (iii)+ G (iv)+ H(iv)+ I (v) ... etc.]		
8	Achievement of energy savings from implementation of new Energy Efficiency Projects for the current year		
	Year	Electricity (Lakh kWh)	Fuel (MTOE)
(a)	2010 - 11		
9	Energy consumption per unit production of 'major energy consuming product(s)' and accounting of energy consumption		
Year	Specific Electrical Energy Consumption In MTOE/tonne** [Total Electrical Energy Consumption in MTOE/Actual Production in tonne] (i)	Specific Thermal Energy Consumption In MTOE/tonne** [Total Thermal Energy Consumption in MTOE/Actual Production in tonne] (ii)	Total Specific Energy Consumption in MTOE/tonne** (i)+(ii)
2009-10			
2010-11			

MTOE = Metric Tonne of Oil Equivalent
1 kWh = 860 kCal

** Or use actual units. For example.

- Automobile industry should report specific energy consumption in MTOE/equivalent vehicle (car, bus, jeep, scooter etc.)
- Integrated steel plants should report specific energy consumption in MTOE/tonne of cast steel (tcs)
- Cement plants should report specific electrical energy consumption in MTOE per tonne of clinker & cement and specific thermal energy consumption in MTOE per tonne of clinker & cement.
- Fertilizer plants should report specific energy consumption in MTOE per tonne of Urea.
- Refinery & petrochemical sector should report specific energy consumption in terms of actual norms used or Energy Index.

10 Organizational set up for Energy Conservation

- Does your organization have an Energy Conservation Cell? (Yes/No)
- Has your unit appointed or designated a BEE Certified Energy Manager? (Yes/No)
- Has your unit/organization declared its Energy Management Policy? (Yes/No)
- Whether any energy audit has been undertaken in your unit in last three years? (Yes/No)

11 Summary

Please summarize the information and data provided in this questionnaire as per the format given below:

STATE ENERGY CONSERVATION AWARD –2011 SUMMARY SHEET

Unit Name

Sub-Sector

a. Specific Energy Consumption (SEC) Reduction during the period 2008-09 & 2009-10 (S.No. 9)						
Year	Product	Specific Electrical Energy Consumption MTOE/ tonne	% Reduction over 2009-10	Specific Thermal Energy Consumption MTOE/ tonne	% Reduction over 2009-10	
2009 - 2010			--		--	
2010 - 2011						
b. Absolute Savings						
Year	Elect. Saving (Lakh kWh) in 2010-11 (i)	Thermal (Fuel) Saving (MTOE) in 2010-11 (ii)	Elect. Consumption (lakhs kWh) in 2009-10 (iii)	Thermal (Fuel) Consumption (MTOE) in 2009-10 (iv)	% Elect. Saving (savings achieved/ electricity consumption of previous year) (i) / (iii) x 100	% Thermal (Fuel) Saving (savings achieved/ thermal energy consumption of previous year) (ii)/ (iv) x 100
2009-10						
Remarks: Use actual units as requested in Note under SI No. 9 in the case of Refinery, Integrated steel plants, Cement plants and Fertilizer plants.						

I, Solemnly declare that to the best of my knowledge the information given in the Award Questionnaire (State Energy Conservation Award-2011) thereto is correct and complete.

(Signature of the
Competent Authority)

Name & designation

Mobile No.

Date:

Place:

Organization Seal

STATE ENERGY CONSERVATION AWARD - 2011		
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 2010-11	
	% savings in EE over the previous year (2009-10)	(10 marks)
ii	Thermal energy savings in 2010-11	
	% savings in Thermal Energy over the previous year (2008-09)	(10 marks)
2	SPECIFIC ENERGY CONSUMPTION REDUCTION	
	% SEC reduction during 2010-11 over 2009-10	(20 marks)
3	Specific Energy Consumption Comparisons with the best reported values among the participating units	(10 marks)

NOTE:

1. *The above evaluation and weightage criterion is common for all the participating units. However for some sectors, the application of the above 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 for a particular sector would be decided by the Award Committee*
3. *For those particular sector, 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*

*Delete or add fuels as the case may
* be*

I, Solemnly declare that to the best of my knowledge the information given in the Award Questionnaire (National Energy Conservation Award-2011) thereto is correct and complete.

(Signature of the Competent Authority)

Date:
Place:

Name & designation
Mobile No.

Organization Seal

DOCUMENTS ATTACHED:

1. Copies of Certificate pertaining to statutory requirements such as safety and pollution control for the period 2010-11 are 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.

STATE ENERGY CONSERVATION AWARD - 2011 (LARGE/ MEDIUM /SMALL SCALE INDUSTRY)

Award for Excellence in Energy Conservation and Management

OBJECTIVE

To give recognition to the selected Industrial units who have made systematic and serious attempts for efficient utilization and conservation of energy during the years 2009-10 & 2010-11.

THE AWARDS

First and second prizes are proposed to be given in each sub-sector in the form of a Silver Plaque with appropriate citation on such awards. The third prize will be 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.

An industrial unit getting the First Position for the third year in a row will be eligible for a "Top Rank Award" for that year. The industrial unit eligible for Top Rank Award for 3rd year in a row would be given the highest prize, namely "**Excellence Award**" (instead of Top Rank Award) in recognition of its consistent performance.

ELIGIBILITY

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

Aluminium, automobile, cement, ceramics, chemicals, chlor-alkali, consumer goods, drugs & pharmaceuticals, dairy, edible oil/vanaspati, fertilizers, forging, food processing (food & vegetable, marine products, package & food products, drinks & beverages), foundries, glass, integrated steel, jute, mini steel, mining, paints & allied product industry, paper & pulp, petrochemicals, petroleum pipeline, plastic industry, refineries, refractory, sugar, steel re-rolling mill, tea, tyre, textile plants and general category.

- b) If any industrial unit does not fall under any of the above specified sub-sectors, the unit may send its nomination under the sub-sector "General Category".

Criteria for Judging Merit

- a) Evaluation of the nominations will be done in two phases.
b) In the first phase, evaluation will be made on the basis of the preliminary information, as required in Annexure-A and the best 10% of the participating industries (subject to minimum 5) from each sector would be short listed.
c) These short listed industries would then have to submit the details of the savings made and the projects implemented, as required in Annexure C.
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.
e) The Committee's decision would be final and no appeal would be entertained.

Submission of nomination

Filled in questionnaire should reach the office of

Vice Chairman & Managing Director

Non-Conventional Energy Development Corporation of A.P. Ltd.

5-8-207/2, Pisgah Complex, Hotel Yatrik Compound, Nampally

Hyderabad – 500 001

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Last date for submission of documents: 31-10-2011.

