

EXCELLENCE AWARDS 2016 FOR ENERGY MANAGEMENT

(Manufacturing Industries)

Federation of Industry Trade and Services (FITS) is a national industry body working in the form of a bridge between the industry and the state/central govt. authorities to bring-about desired reforms in Power sector. FITS has over 40 National Councils, representing different domains of our economy/industry and Power is one of them.

Being a vibrant industry body it has taken many initiatives to bring about the reforms in Power sector especially in the manufacturing of power equipments, innovation, quality of production with employability and skill development. The new Govt. has been taking very pro-active steps but still much more needs to be done. In this context FITS has been doing Conferences/seminars with support from different agencies of Ministry of Power. This Conference is the extension of its on-going initiatives for this sector in close association and support of Power ministry.

Objective

- To recognise and Award “Excellence” in Energy Management in Manufacturing Industries
- To facilitate sharing of information by excellent energy efficient companies
- To develop a sense of competition and to motivate other plants to achieve excellence
- To highlight Carbon Emission Reduction (CDM/VER Project) initiatives focused on energy conservation

Eligibility

- Any industrial individual unit from India/Indian based companies with units overseas whose Energy Bill (Fuel and Power) **exceeds Rs 1.0 Crore per annum OR with a Maximum Demand of 350 kVA and above.**
- Sector specific approach will be followed

Methodology

- Companies will be short-listed based on the questionnaire.
- Evaluation of the questionnaire will be based on :
 - ❖ How close the units are towards global best in sp. energy consumption
 - ❖ Innovation in projects implemented
 - ❖ Environmental projects and projects for linking with Carbon Emission Reduction initiatives
 - ❖ Consistency and reduction in specific energy consumption during last 3 years
 - ❖ Energy saving projects implemented and savings achieved during last 3 years
 - ❖ Involvement of employees, Team work in Energy Conservation, Monitoring & Reporting systems,
 - ❖ Implementation of corrective / preventive actions from ISO 9000 & ISO 14000 certification
 - ❖ Use of waste material
 - ❖ Use of renewable energy sources
 - ❖ Amount of replication arising out of Best Practices implemented on energy front through associates (Efforts taken by companies in improving energy efficiency of their vendors / suppliers, customers & other stake holders)
- If need be, short-listed companies may be invited to make presentation during the conference.

Benefits

- Sharing of information by excellent energy efficient companies
- Facilitate adoption of similar projects at your units, leading to enormous saving
- Instill a sense of competition to motivate other plants to achieve excellence

Questionnaire:

The soft format of the questionnaire can be sent to the following Email IDs: sg@federationits.com or vipin@csdtindia.com or manas@csdtindia.com

Award Entry Process

Complete the attached application form to register your interest and state which award categories you wish to enter.

Form to be duly signed and stamped by the authorised signatory of the organisation

A Processing fee of INR 20,000 (INR 15,000/- shall be refunded in case the nomination is not short listed by the jury for the award) applies for all applicants to be paid by way of Demand Draft/ RTGS/NEFT/IMPS in favour of Federation of Industry Trade & Services, New Delhi. However, for our sponsors (other than logo support sponsor), one award nomination in any category will be **Free of Charge**. Also, for **FITS members** there is a discounted fee for award nomination of INR 10,000 as against usual INR 20,000.

All applications will receive an acknowledgement from the FITS Secretariat.

The selected winners will be felicitated with Awards at the summit to be held on **26 August 2016**.

The Finalist will be announced and felicitated at the Conference venue (**The Lalit Hotel, Connaught Place, New Delhi**) on **26 August 2016**.

Guidelines:

- Please fill in the form and attach all relevant supporting documents with it
- Ensure that form is stamped and signed by the authorised signatory of the organisation
- Attach the administration fee DD/RTGS/NEFT/IMPS in the favour of Federation of Industry Trade & Services
- Please send the scanned copy of the entry by email latest by **13 August, 2016** at sg@federationits.com and send in hard copy by courier/speed post to ensure safe and timely delivery. However, we shall appreciate receiving your expression of interest confirmation with regard to:
 - A. Sponsorship
 - B. Entry for Excellence Award
 - C. Nomination of Delegates
- Incomplete entries shall not be considered by the Jury.

Subscription Bank Draft/Cheque should be drawn in favour of "Federation of Industry Trade and Services" payable at par at New Delhi.

For NEFT/RTGS/IMPS Transfers: In favour of "Federation of Industry Trade and Services"

Account Number: 13331131003504, IFSC Code: ORBC0101333, Oriental Bank of Commerce, Yamuna Vihar Branch, Delhi-110053

Key Contacts:

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Name of the Company				
Complete Address (H.O.) (With Phone Numbers)				
Email				
Website				
Head of Company				
Designation				
Nature of Industry				
Annual Turnover of the Company (2015-16)				
Energy cost as a % of manufacturing cost				
Telephone Number and Email				
Number of Employees	Officers:	Clerical:	Subordinates:	Total:

Award Criteria	Description
Year of Establishment	
Number of manufacturing plants/units in India	
Total number of women employees	
Total number of jobs created in the last two FY*	
Number of patents filed/accepted	
Number of R&D units	
Total turnover in the last two FY* as per balance sheet	
Percentage of revenue share through export in last two FY*	
Percentage of expenditure vis-a-vis business turnover on Technology in the last two FY*	
Percentage of expenses on CSR & Employee Welfare schemes	
Details of ISO certification, if any	
Details of recognition by state/central government or award by industry bodies	

A. Energy Consumption

Year (April – March)	Annual Energy consumption					Prodn. in tons or any other unit of prodn.	Specific Energy Consumption		Redn. in Specific Energy consn. Over previous year **	
	Electrical		Thermal				Electrical KWH / Ton or unit of prodn	Thermal tons or kL per ton or unit of prodn	Electrical	Thermal
	KWH * Million	Rs Million	Type of fuel	Tons/ KL	Rs Million					
2013–14										
2014–15										
2015–16										

* Please include in house DG set generation also.

(If Specific Energy Consumption figures are not applicable please specify with reasons)

The specific energy consumption should include all power consumption, in the plant including ETP, Plant lighting, Water pumps etc.

For Companies having multiple products, please provide production data for one major product or equivalent of one major product.

The specific energy consumption units for select sectors are given below:

Cement	- kWh/Ton of Cement & kCal/kg of Clinker
Automobile	- kWh or M kCal / Vehicle (car, truck, bike etc)
Refinery	- MBTU/Bbl/NRGF
Paper	- Steam: MT / MT of FNP; - Power: kWh / MT of FNP
Caustic chlorine	- kWh / Ton
Glass	- kWh / Ton
Aluminium	- kWh / Ton
Copper	- G Cal / Ton
Textile	- kWh / kg
Ceramic	- kJ / kg
Fertilizer	- G Cal / Ton
Foundry	- kWh/MT & KL or MT/MT of Product
Sugar	- kWh/Tone of Cane & % of Steam on Cane
Power Plant	- % Auxiliary power consumption & Heat Rate (kCals/kWh)

Example

** Specific energy consumption during 2015-16 = (A)

Specific energy consumption during 2014 - 15 = (B)

$$\text{Reduction in Sp. Energy Consumption} = \frac{B - A}{B} \times 100 = \%$$

C. Comparison with National and International Benchmarks

1. Please mention the International and National Benchmarks for units similar to yours (if applicable).

	National Benchmark ***	International Benchmark ***
Specific Energy Consumption Thermal		
Specific Energy consumption Electrical		

2. Mention the ultimate goal/objectives/strategy to sustain/achieve world bench marks

***** Source of information / name of reference unit for Benchmarking also may be mentioned. Send a copy of reference document.**

D. Projects linking with Carbon Emission Reduction initiatives(CDM/VER Projects)

Please list down the projects linking with Clean Development Mechanism (CDM/VER Projects)

Sl No	Title of project implemented	Year of Implementation	Total CO2 Reduction	Total Annual Savings	Invest. Made	Payback months
			Tons of CO2	Rs Million	Rs Million	

*** Projects already registered or under going registration in CDM will be considered**

**** VER certified projects will also be given considerable weight age**

E. List of Energy Conservation Projects implemented during 2013-14, 2014-15 & 2015-16

SI No	Title of Energy Saving project implemented	Year of Implementation	Annual Electrical Savings achieved		Annual thermal savings		Total Annual Savings	Invest. Made	Payback months
			Units Million	Rs Million	Tons of Coal or oil	Rs Million	Rs Million	Rs Million	
Total									

Kindly mention all projects (including minor projects) – use separate sheets, if required.

F. Details about one innovative project implemented in last 3 years

* Weight age for this criteria is based on following aspects:

Implementation of “New Concepts” considering the risk taken, self driven or beyond the scope of OEMs

First of its kind in the sector and having high replication potential in the sector

Known concept, but applied for different application

G. Substitution of Conventional Energy with Renewable Energy

Replacement of Electrical energy with RES

Type of RES	Installed Capacity in kW	2013-14		2014-15		2015-16	
		Energy Generated (kWh)	Annual Savings (Rs.)	Energy Generated (kWh)	Annual Savings (Rs.)	Energy Generated (kWh)	Annual Savings (Rs.)
Wind							
Solar photovoltaic							
Building Integrated Photovoltaic (BIPV)							
Small Hydro							
Others							

Replacement of Thermal Energy with RES

Type of RES	Installed Capacity	2013-14		2014-15		2015-16	
		Equ Fuel Savings (kL or MT)	Annual Savings (Rs.)	Equ Fuel Savings (kL or MT)	Annual Savings (Rs.)	Equ Fuel Savings (kL or MT)	Annual Savings (Rs.)
S o l a r Thermal							
Biomass							
Others							

* **Alternate strategy for business process outsourcing for utilization of RES**

H. Utilisation of Waste

Please include the list of waste material used as substitution for conventional energy.

Mention waste fuel as % of total energy consumption.

No	Type of Waste Material used	Quantity of waste material used (Tons or any other equ Unit)	Equivalent of Conventional energy used (kWh of electricity or Ton / KL of fuel)	Waste fuel as % of total energy
1				
2				
3				
4				

* **Waste material will include input waste, process waste as also output waste**

I. Amount of Replication arising out of Best Practices implemented on energy front through associates

(Efforts taken by companies in improving energy efficiency of their vendors / suppliers, customers & other stake holders)

J. Extent of team work in Energy Conservation

Please describe a typical implementation methodology & type of involvement of workmen, supervisors, middle management and top management.

For few of select projects kindly provide in the following format.

S.No	Source of Energy Conservation idea *	Idea originated in FY **	Extent of man-power involved ***	Progress of implementation \$

* Please mention whether it was workmen, supervisor / middle management or top management

** Please mention the financial year in which the idea originated

*** Please briefly list the core group formed, if any

Please indicate clearly whether the idea has been implemented completely (if so, planned energy saving Vs actual energy saved) OR under implementation (Indicate likely date of completion and corresponding energy saving target) OR whether shelved (Indicate the types of constraints / bottlenecks encountered leading to shelving of the idea)

K. Monitoring and Reporting Systems

Frequency of review of energy consumption and energy conservation projects: Daily / Weekly / Monthly etc.

Please also describe the monitoring & reporting system followed at your unit

Request you to attach a sample reporting format

Who conducts the review meeting: _____ (Designation)

L. Role of Energy Manager

- i. Do you have a designated energy manager (need not be exclusive for energy) at your unit.
- ii. If so, please describe the responsibilities of the energy manager.

M. List of major environmental improvements made during 2013-14, 2014-15, 2015-16

* Environment related projects (Self & Neighborhood)

N. List of Certifications (ISO-9000/14000) Encon, Environment, Quality, Productivity and other Awards won during 2013 – 2016

Also indicate 3 non-conformities and corrective & preventive actions taken for each conformities

***ALL DATA SOUGHT ARE UP TO 31.12.2015**

ADDITIONAL INFORMATION REQUIRED:

- **MAIN FEATURES OF YOUR COMPANY CSR AND LABOUR POLICY**
- **DETAILS OF EFFORTS MADE FOR CREATING MORE JOBS**
- **IF NEED BE, PLEASE PROVIDE ANY ADDITIONAL INFORMATION JUSTIFYING YOUR CLAIM FOR EXCELLENCE AWARD IN THIS CATEGORY (WITHIN 250 WORDS)**

Authorised Signatory

Name: _____

Designation: _____

Mobile No.: _____