

## Uttar Pradesh State Energy Conservation Award 2018

### Check-lists

Sr. No	Requirement of Supporting Documents	Yes	No	Remark
1	Is Award questionnaire proforma-I filled in all aspects?			
2	Is Award questionnaire proforma-II filled in all aspects ?			
3	Copy of Certificate of ISO 50001 is attached			
4	Write-UP as desired is attached			
5	Month wise summarised details for Electricity & Thermal Consumption is attached			
6	Copy of Certificate received from Supplier or any reputed test lab for Calorific Value of Fuel is attached			
7	Copy of electricity bill is attached			
8	List of officials working in the Energy Efficiency Cell attached			
9	Other Innovative measures implemented for reducing energy consumption is attached			
10	Have you registered on UPSDA website <a href="http://www.upsavesenergy.com">www.upsavesenergy.com</a> & filled relevant details			
11	Whether details of Renewable Energy used ia attached (Solar PV System, Solar Thermal System, Bio Energy System etc.)			

I \_\_\_\_\_, do hereby declare that the information given in the Award Questionnaire (Uttar Pradesh State Energy Conservation Award-2018) and in the enclosed documents is true to the best of my knowledge & belief and nothing has been concealed therein. I am well aware of the fact that if the information given by us is proved false / not true at any point of time, our application shall be rejected.

**Prepared By:**

(Signature)  
 Name .....

Designation.....

Mobile No. ....

Organization Seal .....

Date:

**Approved By:**

(Signature)  
 Name .....

Designation.....

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Place:

## UTTAR PRADESH STATE ENERGY CONSERVATION AWARD-2018

Private Buildings / Government Building/ Educational Institutions**"AwardQuestionnaire: Proforma-I"**

<b>SectorName:</b> <input type="checkbox"/> Private Buildings <input type="checkbox"/> Government Building <input type="checkbox"/> Educational Institutions				
<b>SectorCode:</b> <input type="checkbox"/> PB <input type="checkbox"/> GB <input type="checkbox"/> EI				
<b>Sl.No</b>	<b>General Description</b>			
1	Name of the organization owning and maintaining the nominated Building Establishment			
2	Specific name of the nominated building			
3	Year of commencement of the official/ commercial activities in the building			
4	Complete address of building's location (including Chief Executive's name & designation) with telephone, fax nos.& E-Mail (All details to be submitted)			
5	Name, designation, address, telephone, mobile,fax nos. & E-Mail of responsible person who could be contacted in connection with the application for Award (All details to be submitted)			
6	Whether ISO 50001 Energy Management System Certified			Yes / No
	If Yes; Please indicate certification date and attached a copy of certificate			
	Whether Establishment / Unit having Energy Efficiency Cell			Yes / No
7	If Yes; Please provide the list of officials working in the Cell			
	<b>Description of the Building and Connected Load (kW)</b>			
	7.1	Building Status (Please tick appropriate box) <input type="checkbox"/> Stand alone building <input type="checkbox"/> Part of a building complex		
	7.2	No. of floors _____		
	7.3	<b>Building Area and Connected Load</b>	<b>2016-17</b>	<b>2017-18</b>
	7.3.1	Total Built up Area (in m <sup>2</sup> )		
	7.3.2	Air-conditioned area (in m <sup>2</sup> )		
	7.3.3	Non-Airconditioned area (in m <sup>2</sup> )		
	7.3.4	Total Connected Load (in kW)		
7.4	Building contract demand with electric utility company (kVA)			
7.5	Average power factor for the period			
8	<b>Energy (Electricity &amp; Thermal) Consumption in Building</b>			
	8.1	<b>Electrical Energy Consumption</b>		
		<b>Energy used</b>	<b>Units</b>	<b>2016-17</b>
	8.1.1	Electricity Purchased	Lakh kWh	
	8.1.2	Self generated (DG Set)	Lakh kWh	
	8.1.3	Self generated (Renewable Energy)	Lakh kWh	
	8.1.4	Total Electricity Consumption ( 8.1.1+ 8.1.2+ 8.1.3)	Lakh kWh	
8.1.5	Total electricity consumption/ Total built-up area (in kWh/m <sup>2</sup> ) = {(8.1.4 x 10 <sup>5</sup> ) / 7.3.1 }	kWh/m <sup>2</sup>		

8	8.2	Thermal Energy Consumption					
		Energy used	Units	Gross Calorific Value( use appropriate units like kCal/kg, kCal/litre, kCal/m <sup>3</sup> )	Energy Consumption in 2016-17	Energy Consumption in 2017-18	
	8.2.1	Furnace Oil/ LDO/ HSD# (It should NOT include Thermal Energy used for self-generation of electricity)	kilo litres (kL)				
	8.2.2	LPG	kg				
	8.2.3	Natural Gas /CNG/PNG	Lakh m <sup>3</sup>				
		Pressure	kg/cm <sup>2</sup>				
	8.2.4	Any other Fuel	Specify unit				
	8.2.5	Total thermal energy consumption in building (Million kCal, MkCal) {(8.2.1)* GCV(8.2.1) + (8.2.2)*GCV (8.2.2) + (8.2.3)*GCV (8.2.3) + (8.2.4)*GCV (8.2.4) }					
	8.2.6	Total built up area of building in m <sup>2</sup> S. No. 7.3.1					
8.2.8	Total thermal energy consumption/ Total built-up area (in Million kCal / m <sup>2</sup> ) = [ (8.2.5) / (8.2.6) ]						
9	Achievement of energy savings from implementation of new Energy Efficiency Projects.						
	Year	Annual Electricity Saving (Lakh kWh)	Annual Thermal Energy Savings			Total (MkCal)	
			Coal (Metric Tonnes)	FO/LSHS/HSD/ RFO (kL)	Gas (Lakh m <sup>3</sup> )		
	2017-18	Annual Energy Savings (Rs. Lakhs)					
		One time investment (Rs. Lakhs)					
10	Specific Energy consumption						
	Year	Specific Electrical Energy Consumption In kWh/m <sup>2</sup> [Total Electrical Energy Consumption in kWh/Total built-up area ]	Specific Thermal Energy Consumption In Million kcal/m <sup>2</sup> [Total Thermal Energy Consumption in Million kcal/Total built-up area]	Specific Energy Consumption In MToE/m <sup>2</sup> [Total Electrical & Thermal Energy Consumption in MToE/Total built-up area]	Specific Electrical Energy Consumption Reduction over 2016-17	Specific Thermal Energy Consumption Reduction over 2016-17	Specific Energy Consumption Reduction over 2016-17
			(i)	(ii)	(iii)	[10(a) (i) - 10(b) (i)]/ 10(a) (i)	[10(a) (ii) - 10(b) (ii)]/ 10(a) (ii)
	a)	2016-17					
b)	2017-18						

MTOE=Metric Tonne of Oil Equivalent

1 kWh = 860 kCal

1 MTOE =10<sup>7</sup> kCal

1 Mkcal = 10<sup>6</sup> kCal

# Remark: Please mention the use of Diesel/ LDO separately (in excell sheet preferably month wise) for DG Set and other activities / works.

Sector Name .....

Sector Code.....

SUMMARY SHEET						
11.1	Specific Energy Consumption (SEC) Reduction during the period 2016 - 2018					
Year	Total electricity consumption/ Total built-up area (kWh/m <sup>2</sup> )	Total Thermal Energy Consumption/ Total built-up area (Million kCal/m <sup>2</sup> )	Specific Energy Consumption In MToE/m <sup>2</sup> [Total Electrical & Thermal Energy Consumption in MToE/Total built-up area m <sup>2</sup> ]	% Electrical Energy Consumption Reduction over 2016-17	% Thermal Energy Consumption Reduction over 2016-17	% Specific Energy Consumption Reduction over 2016-17
2016-17						
2017-18						
11.2	Absolute energy savings and its percentage over energy consumption of previous year					
	Elect. Saving (Lakh kWh) in 2017-18	Thermal (Fuel) Saving (Million kCal) in 2017-18	Elect. Consumption (lakh kWh) in 2016-17 (7.1.3)	Thermal (Fuel) Consumption (Million kCal) in 2016 - 17 (7.2.5)	% Elect.Saving (savings achieved/ electricity consumption of previous year)	% Thermal (Fuel) Saving (savings achieved/ thermal energy consumption of previous year)
	(i)	(ii)	(iii)	(iv)	(i) / (iii) x 100	(ii)/ ( iv) x 100
12	Details of Innovative Energy Conservation / Efficiency measures adopted ; if any					
13	Details of Renewable Energy used (Solar PV System, Solar Thermal System, Bio Energy System etc.); if any					
14	Have you registered on UPSDA website <a href="http://www.upsavesenergy.com">www.upsavesenergy.com</a> & filled relevant details; if YES then please provide User ID along with details					

I \_\_\_\_\_, do hereby declare that the information given in the Award Questionnaire (Uttar Pradesh State Energy Conservation Award-2018) and in the enclosed documents is true to the best of my knowledge & belief and nothing has been concealed therein. I am well aware of the fact that if the information given by us is proved false / not true at any point of time, our application shall be rejected.

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**Detailed Information of Energy Efficiency Projects  
UTTAR PRADESH STATE ENERGY CONSERVATION AWARD - 2018  
" Award Questionnaire : Proforma-II "**

1	Name of the Establishment						
2	Please provide details in the following format on major energy efficiency improvement projects/ measures including in-house R&D efforts, technology innovation, energy substitution and renewable energy systems commissioned during the year 2017-2018 giving energy savings achieved.						
Energy Conservation projects	Energy Conservation Project description	Achievement of Annual energy savings in 2017-18				Total savings (Rs. Lakhs)	Investment incurred on the project (Rs. Lakhs)
		Electrical Energy	Thermal Energy		Total Thermal Energy (M kCal)		
		(Lakh kWh)	FO/HSD (KL)	Gas (lakhs Nm <sup>3</sup> )			
	(i) Please list of Energy Efficiency the projects title names which were implemented during the year 2017-18						
	(ii) Please mention the achievement of energy saving against each projects in the suitable columns.						

\* Delete or add Thermal Energy as the case may be

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(Signature)  
Name .....  
Designation.....  
Mobile No. ....  
  
Organization Seal .....

Date:

Place:

**DOCUMENTS ATTACHED:**

\*\* Mandatory Supporting documents

1. For Electricity & Thermal Consumption: Month wise summarised details to be attached
2. Copy of ISO 50001 Certificate.
3. Copy of Certificate received from Supplier or any reputed test lab for Calorific Value of Fuel is attached
4. Relevant documents (other than above mentioned documents; if any ) needs to submit.
5. Short falling of any documents create the causes of disqualification from award 2018.
6. Details given in Proforma-I (under section Achievement of energy savings from implementation of new Energy Efficiency Projects.) should be same in proforma-II.

## UTTAR PRADESH STATE ENERGY CONSERVATION AWARD - 2018

### "Write-up"

Dear Participants,

We request you to submit us the following as additional information:

A brief write-up of the unit / establishment in MS Word (not in PDF) in a pen drive/ CD containing the soft copy of the same. The write up can also be sent on [upseca.upsda@gmail.com](mailto:upseca.upsda@gmail.com) . The write-up to contain the information on Unit Profile, Energy Consumption year wise and Energy Conservation Achievements (highlighting the projects implemented during the year 2017-18), Environment and Safety. Please include the **specific mention of other Innovative measures implemented for reducing energy consumption**. Please also Include Energy management policy declared by the top management of your organization.

**Evaluation Strategy****Evaluation methodology**

<b>Sr. No.</b>	<b>Evaluation Criterion</b>	<b>Max.100 Marks</b>
<b>1.</b>	<b>Specific Energy Consumption Reduction (% Reduction during 2017-18 Over 2016-17 )</b>	<b>55 marks</b>
<b>2.</b>	<b>ISO 50001 Certification</b>	<b>10 marks</b>
<b>3.</b>	<b>Energy Efficiency Cell</b>	<b>10 marks</b>
	a)One number of Certified Energy Auditor(EA) / Energy Manager(EM)	5 marks
	b)Two professional (including EM/EA)	7 marks
	c)More than two professional (including EM/EA)	10 marks
<b>4.</b>	<b>Use of Renewable Energy is used (Solar PV System, Solar Thermal System, Bio Energy System etc.)</b>	<b>20 marks</b>
I)	<b>Solar PV System</b>	<b>10 marks</b>
	a) Solar PV System capacity in between 75% to 100% of Total connected load	10 marks
	b) Solar PV System capacity in between 50% to 75% of Total connected load	08 marks
	c) Solar PV System capacity in between 25% to 50% of Total connected load	05 marks
	d) Solar PV System capacity less than 25% of Total connected load	02 marks
II)	Solar Thermal System	05 marks
III)	Bio Energy System	05 marks
<b>5.</b>	<b>Registration ID on <a href="http://www.upsavesenergy.com">www.upsavesenergy.com</a> &amp; relevant details</b>	<b>05 marks</b>

**Note:** The above evaluation and weightage criterion is common for all the entities. However, in case of any peculiarity found in the application of above evaluation criteria, the Awards Committee reserves the right to modify the criteria, which shall be uniformly applied to all the entities