



सत्यमेव जयते  
Ministry of Power  
Government of India



Bureau of Energy Efficiency

# PROMOTING ENERGY EFFICIENCY ACTIVITIES IN DIFFERENT SECTORS



## SCHEME FOR STRENGTHENING OF SDAs OPERATIONAL GUIDELINES

# State Designated Agencies (SDAs) for Energy Efficiency



State	Name of the SDA	State	Name of the SDA	State	Name of the SDA
Andaman and Nicobar Islands	Electricity Department, Andaman and Nicobar Islands	Himachal Pradesh	Directorate of Energy, Govt. of HP	New Delhi	Energy Efficiency And Renewable Energy Management Centre
Andhra Pradesh	Andhra Pradesh State Energy Conservation Mission	Jammu and Kashmir	J&K Power Development Department	Orissa	State Designated Agency, Odisha
Arunachal Pradesh	Arunachal Pradesh Energy Development Agency	Jharkhand	Jharkhand Renewable Energy Development Agency	Punjab	Punjab Energy Development Agency
Assam	Assam State Designated Agency	Karnataka	Karnataka Renewable Energy Development Limited	Puducherry	Renewable Energy Agency Puducherry
Bihar	Bihar Renewable Energy Development Agency	Kerala	Energy Management Centre Kerala	Rajasthan	Rajasthan Renewable Energy Corporation Limited
Chandigarh	Chandigarh Electricity Department	Lakshadweep	Lakshadweep Electricity Department	Sikkim	Sikkim State Designated Agency
Chhattisgarh	Chhattisgarh State Renewable Energy Development Agency	Madhya Pradesh	Madhya Pradesh Uja Vikas Nigam Limited	Tamil Nadu	Tamil Nadu Electrical Inspectorate
Dadra and Nagar Haveli	Dadra Nagar Haveli Power Distribution Company Limited	Maharashtra	Maharashtra Energy Development Agency	Telangana	Telangana State Renewable Energy Development Corporation Limited
Daman and Diu	Daman Electricity Department	Manipur	Manipur State Power Distribution Company Limited	Tripura	Tripura State Electricity Corporation Limited
Gujarat	Gujarat Energy Development Agency	Meghalaya	Meghalaya State Designated Agency	Uttarakhand	Uttarakhand Renewable Energy Development Agency
Goa	Goa Electricity Department	Mizoram	Mizoram State Designated Agency	Uttar Pradesh	Uttar Pradesh New & Renewable Energy Development Agency
Haryana	Haryana Renewable Energy Development Agency	Nagaland	Nagaland State Designated Agency	West Bengal	West Bengal State Electricity Distribution Company Limited

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## I. Introduction and Vision

Bureau of Energy Efficiency (BEE) has formulated a comprehensive scheme for “Promoting Energy Efficiency activities in different sectors of Indian Economy”. Hon’ble Minister of State (IC) for Power has approved this scheme comprising of the following components for 2017-20.

S. No.	Components of scheme	Sub- components
I	<b>Strengthening of SDAs to promote efficient use of energy and its conservation at State level</b>	Providing financial assistance to the State Designated Agencies to coordinate, regulate and enforce efficient use of energy and its conservation at the State level
		Contribution to State Energy Conservation Fund
II	<b>Demand Side Management (DSM) Initiatives</b>	Agricultural DSM Programme (Ag-DSM)
		Capacity Building of DISCOMs
		Municipal DSM Programme (Mu-DSM)
III	<b>Energy Efficiency in Small and Medium Enterprises (SMEs)</b>	
IV	<b>Standards, Codes &amp; Labeling for Appliances and Buildings</b>	Standards & Labeling (S&L)*
		Building Energy Efficiency
V	<b>Energy Conservation Awareness, Awards and Painting Competition</b>	National Energy Conservation Awards & Painting Competition
		Awareness Campaign

One of the components under this umbrella scheme is “Strengthening of SDAs to promote efficient use of energy and its conservation at State level”. These operational guidelines encompass the details of physical and financial outlays and other relevant information pertaining to this component scheme for “Strengthening of SDAs” which shall be useful for SDAs and various concerned stakeholders for implementation of requisite activities. Since “Strengthening of SDAs” is one of the component schemes under the said umbrella scheme, it will be herein after referred as “Strengthening of SDAs” scheme.

Under the framework of Energy Conservation (EC) Act, a two-tier structure has been established for undertaking energy efficiency activities with Bureau of Energy Efficiency (BEE) at the Centre and State Designated Agencies (SDAs) as nodal agencies at the State level. In exercise of the powers conferred by section 15(d) of EC Act 2001, all the State Governments have designated an agency as State Designated



Agency (SDA) to coordinate, regulate and enforce the provisions of this Act within the State, either by assigning additional responsibilities to one of the existing departments of the State Government or by establishing a dedicated Stand-Alone SDA for energy efficiency.

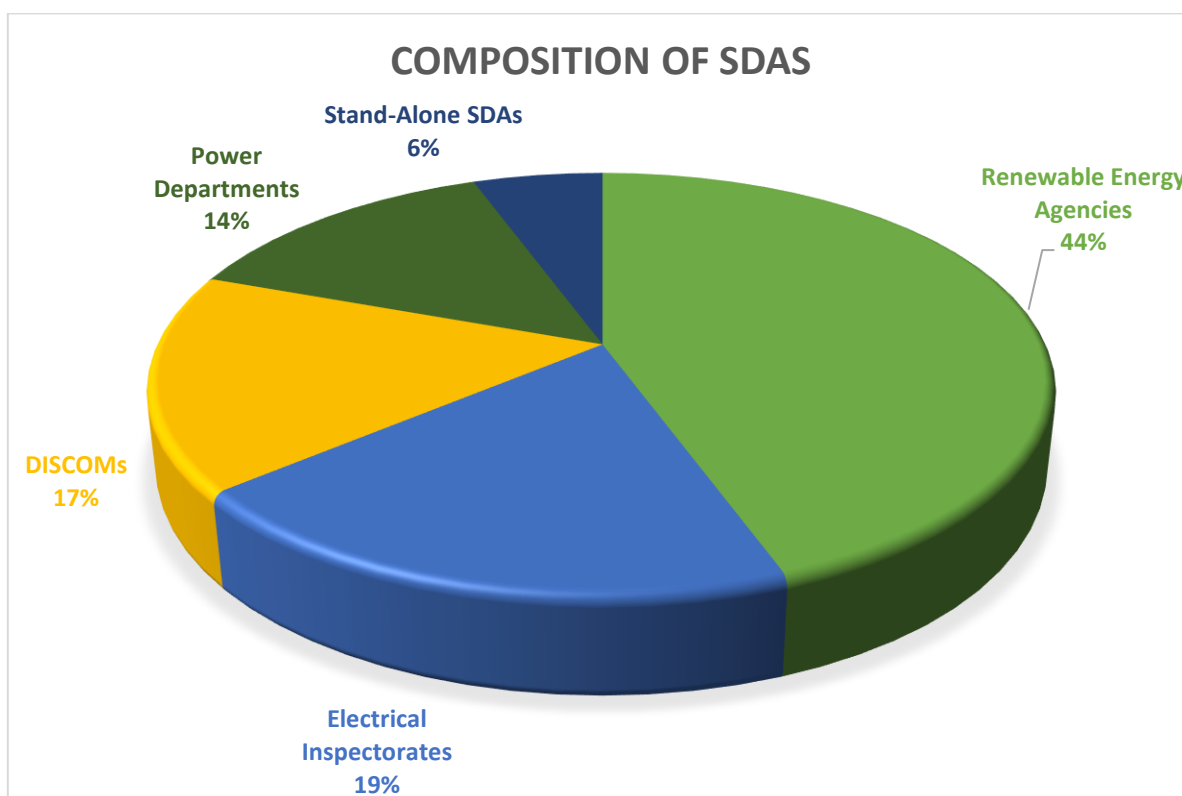
At present, there are total 36 SDAs in the country, out of which, 16 are Renewable Energy Development Agencies, 5 are State Government Power Departments, 7 are Electrical Inspectorates, 6 are Electricity Distribution Companies and 2 are Stand-Alone SDAs. Complete list of the SDAs (in alphabetical order) is provided below.

S. No.	State	Name of the SDA	Acronym	Type of SDA
1	Andaman and Nicobar Islands	Electricity Department, Andaman and Nicobar Islands	-	Power Department
2	Andhra Pradesh	Andhra Pradesh State Energy Conservation Mission	APSECM	Stand-Alone Agency for Energy Efficiency
3	Arunachal Pradesh	Arunachal Pradesh Energy Development Agency	APEDA	Renewable Energy Development Agency
4	Assam	Assam State Designated Agency	ASDA	Electrical Inspectorate
5	Bihar	Bihar Renewable Energy Development Agency	BREDA	Renewable Energy Development Agency
6	Chandigarh	Chandigarh Electricity Department	-	Electrical Inspectorate
7	Chhattisgarh	Chhattisgarh State Renewable Energy Development Agency	CREDA	Renewable Energy Development Agency
8	Dadra and Nagar Haveli	Dadra Nagar Haveli Power Distribution Company Limited	DNHPDCL	Distribution Company
9	Daman and Diu	Daman Electricity Department	-	Distribution Company
10	Gujarat	Gujarat Energy Development Agency	GEDA	Renewable Energy Development Agency
11	Goa	Goa Electricity Department	-	Power Department
12	Haryana	Haryana Renewable Energy Development Agency	HAREDA	Renewable Energy Development Agency
13	Himachal Pradesh	Directorate of Energy, Govt. of HP	DoE	Power Department
14	Jammu and Kashmir	J&K Power Development Department	JKPDD	Distribution Company
15	Jharkhand	Jharkhand Renewable Energy Development Agency	JREDA	Renewable Energy Development Agency
16	Karnataka	Karnataka Renewable Energy Development Limited	KREDL	Renewable Energy Development Agency



S. No.	State	Name of the SDA	Acronym	Type of SDA
17	Kerala	Energy Management Centre Kerala	EMC Kerala	Stand-Alone Agency for Energy Efficiency
18	Lakshadweep	Lakshadweep Electricity Department	LEDA	Power Department
19	Madhya Pradesh	Madhya Pradesh Urja Vikas Nigam Limited	MPUVNL	Renewable Energy Development Agency
20	Maharashtra	Maharashtra Energy Development Agency	MEDA	Renewable Energy Development Agency
21	Manipur	Manipur State Power Distribution Company Limited	MSPDCL	Distribution Company
22	Meghalaya	Meghalaya State Designated Agency	MSDA	Electrical Inspectorate
23	Mizoram	Mizoram State Designated Agency	-	Electrical Inspectorate
24	Nagaland	Nagaland State Designated Agency	NSDA	Electrical Inspectorate
25	New Delhi	Energy Efficiency And Renewable Energy Management Centre	EEREMC	Renewable Energy Development Agency
26	Orissa	State Designated Agency, Odisha	-	Electrical Inspectorate
27	Punjab	Punjab Energy Development Agency	PEDA	Renewable Energy Development Agency
28	Puducherry	Renewable Energy Agency Puducherry	REAP	Renewable Energy Development Agency
29	Rajasthan	Rajasthan Renewable Energy Corporation Limited	RRECL	Renewable Energy Development Agency
30	Sikkim	Sikkim State Designated Agency	-	Power Department
31	Tamil Nadu	Tamil Nadu Electrical Inspectorate	TNEI	Electrical Inspectorate
32	Telangana	Telangana State Renewable Energy Development Corporation Limited	TSREDCO	Renewable Energy Development Agency
33	Tripura	Tripura State Electricity Corporation Limited	TSECL	Distribution Company
34	Uttarakhand	Uttarakhand Renewable Energy Development Agency	UREDA	Renewable Energy Development Agency
35	Uttar Pradesh	Uttar Pradesh New & Renewable Energy Development Agency	UPNEDA	Renewable Energy Development Agency
36	West Bengal	West Bengal State Electricity Distribution Company Limited	WBSEDCL	Distribution Company





It is pertinent to note here that only two states – Kerala and Andhra Pradesh have established Stand-Alone SDA. However, remaining 34 States/UTs have assigned additional responsibility of facilitation and enforcement of the provisions of the EC Act at the State level to one of their existing agencies/ departments, wherein, the SDA shares key facilities / staff / budget with the parent department. Such SDAs are not able to give their undivided attention to the task of energy efficiency. This dampens the pace and direction of the energy conservation programmes, thereby limiting the outreach of activities. On the other hand, in States where Stand-Alone SDAs exist, it is observed that they are in a better position to perform the mandated functions.

Considering the significance of implementation of energy efficiency and conservation measures in meeting India's Nationally Determined Contribution (NDC) target of reduction in the emission intensity of its GDP by 33 to 35 per cent from 2005 level by 2030 and requirement of dedicated support and proactive endeavour on the part of State Governments by undertaking various energy efficiency measures, Hon'ble Minister of State (IC) for Power and New & Renewable Energy has sent a letter to Hon'ble Chief Minister of all the States (except Kerala and Andhra Pradesh), urging them to issue necessary instructions for establishing a "Stand-Alone" SDA in their respective States for effective implementation of the EC Act and the programmes thereunder.



In order to build and strengthen the institutional, technical and financial capacities and capabilities of the SDAs for undertaking energy efficiency activities at the State level, the Ministry of Power approved the scheme on “Strengthening of SDAs to promote efficient use of energy and its conservation” during the XI plan, which was continued during the XII plan and has also been ratified for the period 2017-20. Since its inception during the XI plan, BEE has been providing financial assistance to the SDAs under this scheme, which comprises of two components namely:

1. Providing financial assistance to the State Designated Agencies to coordinate, regulate and enforce efficient use of energy and its conservation at the State level
2. Contribution to State Energy Conservation Fund (SECF)

**1. Providing financial assistance to the State Designated Agencies to coordinate, regulate and enforce efficient use of energy and its conservation at the State level**

The sub-components under this component of the scheme are as follows.

**(i) State Partnership for Energy Efficiency Demonstrations (SPEED):** This sub-component comprises of two major activities.

**a. Implementation of energy efficiency demonstration projects**

The main objectives of these demonstration projects are:

- To showcase the effectiveness of energy efficient devices / technologies through practical demonstrations.
- To facilitate the State Governments in replicating these demonstration projects through various departments / agencies.

These demonstration projects can be implemented by the SDAs in the areas of street lighting, water pumping (drinking water supply systems, agricultural water pumping systems, etc.), retrofitting of electrical equipment / appliances in buildings, installation of smart-meters in municipalities, Government buildings, etc., waste heat recovery, heating, ventilation and air conditioning, etc.



**b. Implementation of energy efficiency activities in Government schools:** The main objectives of this endeavour are as below.

- Even though, schools being a very important institution of the country, it has been neglected in the area of energy efficiency, as of now. Therefore, the objective is to replace all existing conventional luminaries with atleast BEE 4-star rated LED fixtures and conventional fans with super-efficient fans in schools across the country, initiating with the Govt. schools.
- Disseminating awareness amongst school children by way of establishing energy clubs, organizing debates, quiz programs, etc. thereby encouraging participation of young ambassadors in energy efficiency movement.
- Facilitating the State Governments in replicating these practical demonstrations through various departments / agencies.

**(ii) Model Energy Efficient Village Campaign:** Objective of this component is to make entirely electrified villages comprising of minimum 200 nos. of households, model energy efficient villages by replacing existing equipment like household lamps, street lights, fans and water pumps (agriculture, drinking water, etc.) with energy efficient BEE star labeled equipment/ appliances.

**(iii) Institutionalization of enforcement machinery at State level:** BEE provides financial assistance to the SDAs under this component for the purpose of establishment of an enforcement machinery at the State level and for development of a robust mechanism to enable this machinery discharge its duties / tasks effectively. Institutionalization of enforcement machinery includes the appointment of Inspecting Officers by the SDAs to ensure effective implementation of the enforcement mechanism for the mandatory schemes on energy efficiency and the appointment of Adjudicating Officers by respective State Electricity Regulatory Commission (SERC) to carry out adjudication proceedings against the defaulters identified through Inspection or Non-compliance. Further, capacity building programmes may be organized to impart training on



various provisions of the EC Act to these Inspecting Officers and Adjudicating Officers.

**(iv) Manpower Support to SDAs:** This component enables the SDAs to engage manpower to coordinate, administer, regulate and enforce activities pertaining to energy efficiency within the State smoothly and effectively. The engaged manpower may be made responsible for overall implementation of various programmes viz. Perform Achieve and Trade (scheme for regulating and enforcing energy consumption norms and standards for energy intensive industries and establishments), Standards & Labeling for appliances and equipment, Demand Side Management programmes in sectors of agriculture & municipality, Energy Conservation Building Code for commercial and residential buildings, Energy Efficiency in SME sector, financing for energy efficiency projects, Strengthening of SDAs (including awareness & outreach, conduct of capacity building workshops / seminars, etc.), Contribution to SECF, etc. of BEE.

**(v) State Energy Efficiency Research & Outreach Programme:** This component covers the following objectives.

- To strengthen partnership between policy makers and educational institutions to forward the energy efficiency drive.
- To enhance the outreach activities undertaken by SDAs.

Through this component, SDAs can draw key experts and can undertake extensive stakeholder engagement, comprehensive analysis and focused technical assistance to enhance clean energy policy implementation in the State. Under this component, SDAs may consider innovative projects and research proposals on energy efficiency from educational institutions, college students and individual researchers and take support from various private organizations, educational institutions and laboratories for know-how on various energy efficiency practices across various sectors.

Further, SDAs can propagate energy conservation values and promote energy efficiency programmes amongst school children, Government officials and various other sections of the society through promotional



material like pamphlets, booklets, banners, hoardings, brochures, posters, etc., awareness campaigns and electronic media like radio, television, etc.

- (vi) Workshops / Capacity Building of energy professionals:** The SDAs may organize workshops at regular interval to disseminate information regarding energy efficiency to energy professionals like Accredited / Certified Energy Auditors, Energy Managers, Designated Consumers, Financial Institutions, Energy Service Companies (ESCOs), building professionals, architects, ECBC Master Trainers, equipment / appliance manufacturers and retailers, DISCOM officials, etc. and to address issues faced by them.
- (vii) Analysis and survey of the impact of energy conservation activities by SDAs:** The outcome of the various energy conservation activities undertaken by the SDAs needs to be documented. This should be in the form of an annual year book where the benefits can be quantified on multiple dimensions including the monetary benefits based on the reduction in the number of units consumed by this sector, generation capacity that can be avoided by the generation utility because of the reduction in demand in this sector or can be used to satisfy the peak demands, emissions avoided by reducing the generation requirements, etc. which shall be submitted to BEE for maintaining its record and subsequent reporting to Ministry of Power (MoP).
- (viii) Maintenance and updation of internet platform and other database created:** Under this component, financial support is provided to the SDAs towards establishment of internet platform through creation of a separate website on energy efficiency and regularly updating its contents.

## **2. Contribution to State Energy Conservation Fund**

Section 16 (1) of the EC Act requires State Governments / UT Administrations to constitute a fund called State Energy Conservation Fund (SECF) for the purpose of promotion of efficient use of energy and its conservation within the State. In this context, a scheme titled Contribution to SECF was approved by the Ministry of



Power during the XI plan and continued during the XII plan. It has also been approved by the Ministry of Power for the period 2017-20.

The SECF can facilitate to overcome the major barriers for implementation of energy efficiency projects. It is intended to be used as an instrument to facilitate implementation of energy efficiency projects through market transformation. For undertaking energy efficiency projects through SECF, major part of the funds disbursed under SECF is to be earmarked separately as Revolving Investment Fund (RIF). This RIF may be used to finance implementation of energy efficiency projects in public buildings including those of Central Government, State Government and Central or State Government undertakings' / agencies' buildings, energy efficiency street-lighting or common area lighting projects, energy efficiency projects in public drinking water pumping stations and in agricultural pumping, energy efficiency projects in various industrial sectors and MSME clusters etc.

The contribution under SECF is made to those State Governments / UT Administrations who have created their SECF and finalized the rules and regulations to operationalize the same. The scheme is for contribution to all the State/UTs with a maximum ceiling of Rs. 4.00 crore for any State/UT provided in two installments of Rs. 2.00 crore each. The second installment of Rs. 2.00 crore under contribution to SECF is released only after the states have provided a matching contribution to the first installment of Rs. 2.00 crore provided by BEE. It may be mentioned here that the matching contribution by the State Government for North Eastern States and the UT Administrations is relaxed to Rs. 25.0 lakhs instead of Rs 2.0 crore.



## II. Physical & Financial Outlays under the approved scheme for “Strengthening of SDAs to promote efficient use of energy and its conservation”

The Management Advisory Committee (MAC) of BEE is chaired by Secretary, MoP and comprises of members from various ministries, organizations / departments, etc. with Director General (DG), BEE being the Member-Secretary of this Committee. Composition of the MAC of BEE is as follows.

a	Secretary, MoP, Govt. of India (Gol)	–ex-officio Chairperson
b	Chairperson, Central Electricity Authority	–ex-officio Member
c	Joint Secretary, MoP, Gol	–ex-officio Member
d	Joint Secretary & Financial Advisor, MoP, Gol	–ex-officio Member
e	Joint Secretary, MNRE, Gol	–ex-officio Member
f	Executive Director, Petroleum Conservation Research Association (PCRA)	–ex-officio Member
g	Deputy Director General, Bureau of Indian Standards	–ex-officio Member
h	Director General, BEE	–ex-officio Member-Secretary

Meeting of the MAC of BEE is convened 2-3 times in a financial year to obtain its inputs / recommendations on matters relating to–

- (i) finance, personnel, administrative and policy matters;
- (ii) programmes or schemes relating to or in connection with implementation of the EC Act.

Moreover, BEE has its own administrative setup in context of smooth and effective functioning of the scheme for “Strengthening of SDAs to promote efficient use of energy and its conservation”. This administrative structure comprises of DG, BEE, Secretary, BEE and the SDA Team.

BEE provides financial assistance to the SDAs every financial year. ***The following approach is adopted by BEE for making necessary disbursement of the funds received from Ministry of Power to respective SDAs.***



**Appraisal and approval of the Memorandum for the scheme by the Standing Finance Committee (SFC) on the scheme:** The SFC document / proposal on the scheme for a definite plan period composing of envisaged activities and respective budgetary requirements for each financial year is submitted to Ministry of Power for its examination, appraisal and subsequent approval. The said scheme has been approved by Hon'ble Minister of State (IC) for Power for period 2017-20 and is likely to be extended further. The **year-wise financial outlay** of major components of the scheme for 2017-20, as approved by its SFC is as follows.

*All figures in INR Crore*

S.No	Components of the Scheme	2017-18	2018-19	2019-20	Total
1	Providing financial assistance to the SDAs to coordinate, regulate and enforce efficient use of energy and its conservation at the State level	23.0	50.0	45.0	118.0
2	Contribution to State Energy Conservation Fund	4.0	6.0	6.0	16.0
<b>Total</b>		<b>27.0</b>	<b>56.0</b>	<b>51.0</b>	<b>134.0</b>

**Head-wise break-up of the above financial outlay** of the major component "Providing financial assistance to the SDAs to coordinate, regulate and enforce efficient use of energy and its conservation at the State level" for 2017-20 is as follows.

*All figures in INR Crore*

**Providing financial assistance to the SDAs to coordinate, regulate and enforce efficient use of energy and its conservation at the State level**

S.No	Sub-Components		2017-18	2018-19	2019-20	Total
1	State Partnership for Energy Efficiency Demonstrations (SPEED)	Implementation of energy efficiency demonstration projects	8.19	12.17	9.76	30.12
		Implementation of energy efficiency activities in Government schools	5.38	14.25	15.72	35.35
2	Model Energy Efficient Village Campaign		1.92	5.34	5.25	12.51



3	Institutionalization of Enforcement Machinery at State level	1.10	0.43	1.17	2.70
4	Manpower Support to SDAs	3.40	3.80	4.58	11.78
5	State Energy Efficiency Research & Outreach Programme	1.34	2.79	3.45	7.58
6	Workshops / Capacity Building of energy professionals	1.10	2.73	4.05	7.88
7	Analysis and survey of the impact of energy conservation activities by SDAs	0.00	0.43	0.50	0.93
8	Maintenance and updation of internet platform and other database created	0.18	0.71	0.48	1.37
9	Administrative/ Project Monitoring & Review Expenditure	0.39	7.35	0.04	7.78
<b>Total</b>		<b>23.00</b>	<b>50.00</b>	<b>45.00</b>	<b>118.0</b>

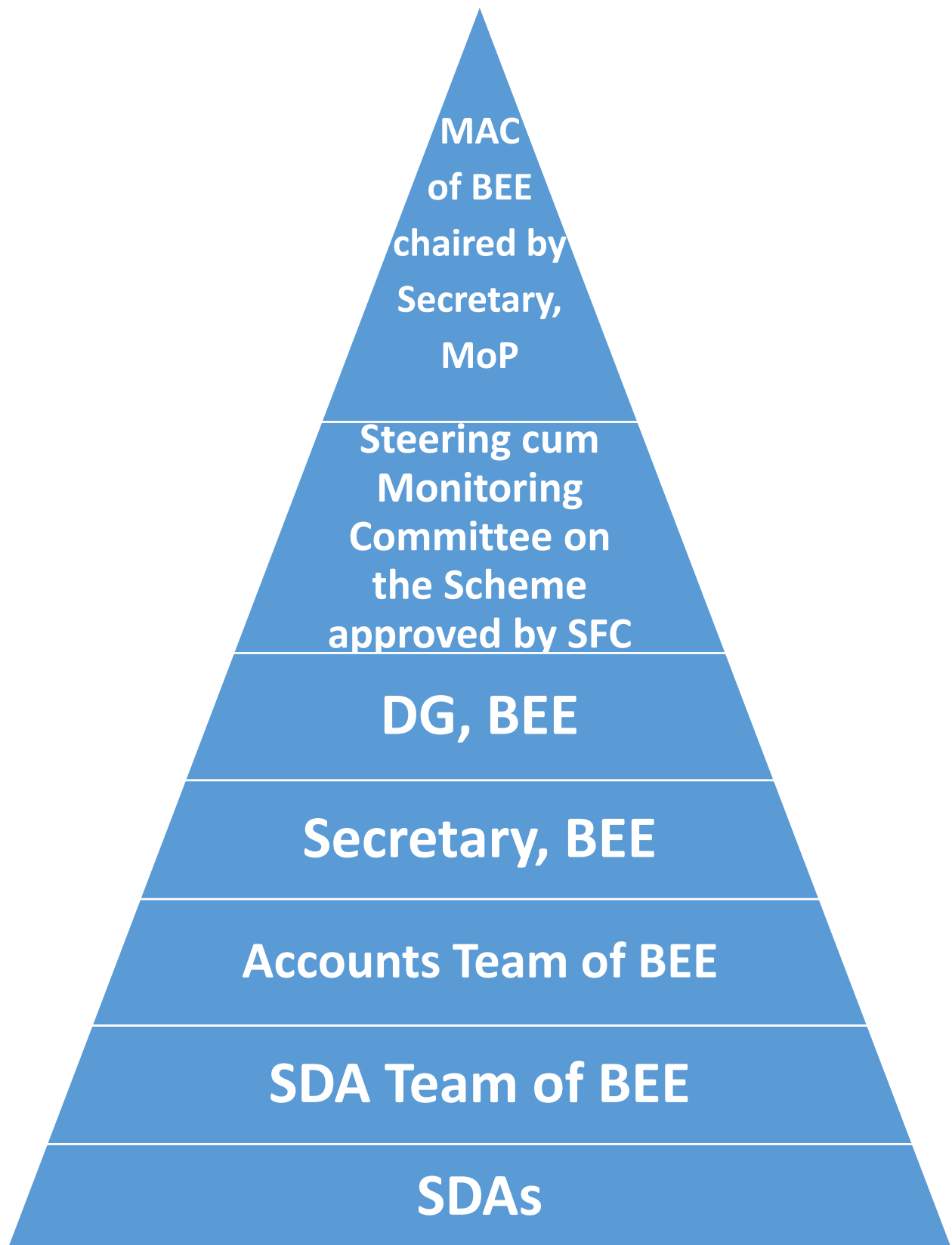
**Approval of Annual Action Plan of the SDAs for each financial year:** Detailed Annual Action Plan (AAP) comprising of activities planned to be undertaken by the SDAs during each financial year and respective estimated fund requirements for every activity is received from the SDAs. These AAPs are analysed and subsequently, approved by the Competent Authority of BEE. These AAPs are further presented to the Steering cum Monitoring Committee on the scheme on “Strengthening of State Designated Agencies (SDAs) to promote efficient use of energy and its conservation” chaired by Director General, BEE and composing of Secretary, BEE and representatives of EC Division- MoP, IFD- MoP, Niti Aayog and Department of Expenditure- Ministry of Finance for its perusal and subsequent approval. Further, recommendations of the said Steering cum Monitoring Committee are submitted to the MAC of BEE.

**Issuance of sanction order to the SDAs:** BEE issues sanction order against each scheme / programme for a particular financial year to the SDAs alongwith the respective operational guidelines to be followed by them, in keeping with their approved AAP for that financial year.

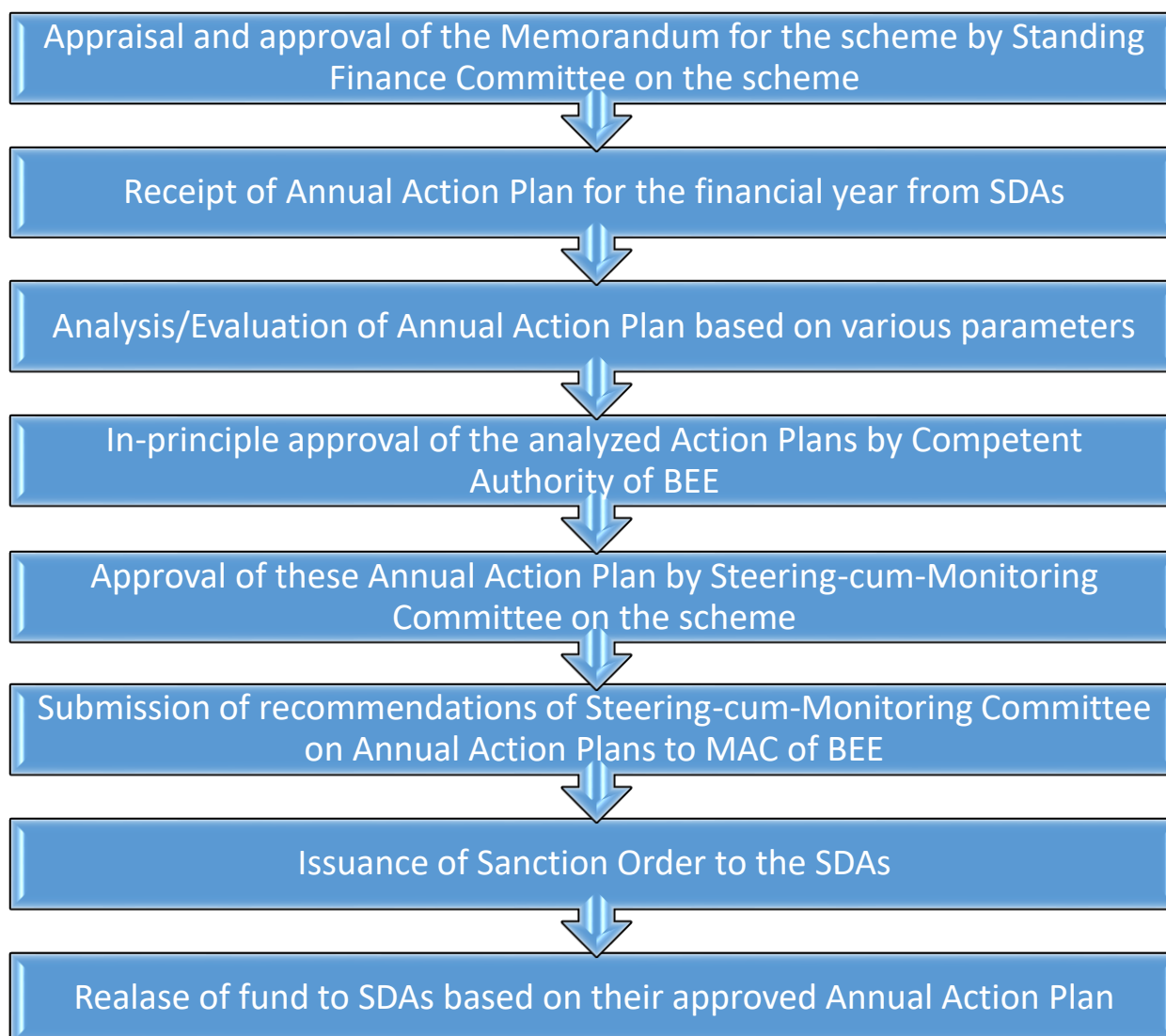
**Release of funds to the SDAs:** BEE releases funds to the SDAs every financial year as per their approved AAP for that financial year.



## ADMINISTRATIVE STRUCTURE



## Approach adopted by BEE for release of funds to SDAs



### Physical outlays under the approved scheme for “Strengthening of SDAs to promote efficient use of energy and its conservation”

The said scheme for 2017-20 is devised keeping the following outputs/deliverables and their consequent outcomes into account. The **physical outlays of this scheme for 2017-20** are planned in keeping with the **Output-Outcome Matrix** placed below.



S. N	Sub-Components		Envisaged Output / Deliverables	Estimated Outcomes	
				Quantitative	Qualitative
1	State Partnership for Energy Efficiency Demonstrations (SPEED)	Implementation of energy efficiency demonstration projects	Implementation of 2-3 nos. of energy efficiency demonstration projects by each SDA, leading to implementation of atleast 60-70 nos. of such demonstration projects across the country	<ul style="list-style-type: none"> <li>Country wide energy saving of almost 600 MUs</li> <li>Monetary savings of approximately INR 300 Crore</li> <li>Replication of these projects will result in multiplied energy savings</li> </ul>	Inculcation of habit of use of energy efficient devices / technologies amongst more than 50,000 individuals
		Implementation of energy efficiency activities in Government schools	Replacement of existing conventional luminaries with atleast BEE 4-star rated LED fixtures and conventional fans with super-efficient fans and simultaneously disseminating awareness amongst school children by way of establishing energy clubs, organizing debates, quiz programs, etc. in 100-200 nos. of Govt. schools by each SDA, leading to implementation of this endeavour in atleast 3000-3500 nos. of Govt. schools across the country	<ul style="list-style-type: none"> <li>Energy saving of approximately 80 BUs across the country</li> <li>Monetary savings of around INR 40,000 Crore</li> <li>Replication of these projects will result in increased energy savings</li> </ul>	<ul style="list-style-type: none"> <li>Establishment of more than 3,000 Energy Clubs in the country</li> <li>Creation of awareness on importance of EC amongst more than 5,00,000 individuals including teachers and students of schools</li> </ul>
2	Model Energy Efficient Village Campaign		Taking up 4-5 nos. of villages within each State for converting them into model energy efficient villages by replacing existing inefficient electrical appliances with BEE star rated appliances including street lights, fans, water pumps, household bulbs, etc., thereby covering atleast 120-150 nos. villages across the country	<ul style="list-style-type: none"> <li>Energy saving to the tune of 100 BUs</li> <li>Monetary savings of almost INR 50,000 Crore</li> <li>Replication of these projects will result in increased energy savings in multiple fold</li> </ul>	Inculcation of habit of use of energy efficient electrical equipment / appliances amongst more than 60,000 individuals
3	Institutionalization of Enforcement Machinery at State level		<ul style="list-style-type: none"> <li>Developing enforcement mechanism at State level for mandatory schemes of BEE and carrying out activities required for enforcement of provisions of the EC Act</li> <li>Organizing capacity building programmes to impart training on various provisions of the EC Act to officers executing the enforcement activities</li> </ul>	NA	<ul style="list-style-type: none"> <li>Development of skills of inspection and adjudication/enquiry in more than 50 officials from SDAs, SERCs and other concerned organizations / departments.</li> <li>Effective enforcement of the EC Act would result in generating</li> </ul>



				<p>revenue while collecting penalty amount from defaulters</p> <ul style="list-style-type: none"> <li>• It would also result in change in perception of the end-consumers, making them more conscious and sincere about energy efficiency and energy conservation</li> </ul>
4	Manpower Support to SDAs	Employing human resource, i.e. manpower to carry out activities pertaining to efficient use of energy and its conservation	NA	Employment generation for more than 150 individuals
5	State Energy Efficiency Research & Outreach Programme	<ul style="list-style-type: none"> <li>• Taking up innovative research projects in the field of energy efficiency through educational / research institutions, college students and individual researchers</li> <li>• Enhancing awareness among the masses about the benefits of energy efficiency and energy conservation</li> </ul>	NA	Creating mass awareness on EC & EE
6	Workshops / Capacity Building of energy professionals	Organizing workshops at regular interval to disseminate information to energy professionals like accredited/certified energy auditors, energy managers, Designated Consumers, ESCOs, etc.	NA	<ul style="list-style-type: none"> <li>• Increase in pool of energy professionals by 40%-50%</li> <li>• Development / enhancement of respective skills of energy professionals</li> <li>• Periodic redressal of practical issues faced by these energy professionals</li> </ul>
7	Analysis and survey of the impact of energy conservation activities by SDAs	Documentation and accounting of outcomes of various energy conservation and energy efficiency activities undertaken by the SDAs	NA	<ul style="list-style-type: none"> <li>• Regular tracking of country's position in meeting NDC targets / SDGs / targets under Paris agreement, etc.</li> </ul>
8	Maintenance and updation of internet platform and other database created	Establishment and maintenance of internet platform through creation of a separate website on energy efficiency	NA	<ul style="list-style-type: none"> <li>• Dissemination of information on energy efficiency initiatives amongst the masses</li> <li>• Ease of information availability / access</li> </ul>

**Table: Output-Outcome Matrix**



### III. Preparatory Activities to be undertaken by SDAs before submitting their AAP to BEE

SDAs shall complete the following exercise before submitting their AAP to BEE.

- 1. Selection / Identification of beneficiary:** The SDAs may pursue with concerned authority for selecting the beneficiary for implementation of demonstration projects, model village campaigns, energy efficiency activities in Government schools, capacity building programmes for energy professionals and wide-scale awareness campaigns.

There may be numerous ways for selecting the beneficiary, few of which are as follows.

- a. SDA may approach the concerned authority and acquire the list of beneficiaries for a particular endeavour.
- b. DISCOMs may be contacted to seek the beneficiary of a project. DISCOM can also be the implementing agency of these projects.
- c. Progressive entities may be selected while identifying beneficiaries of an assignment in a particular category (e.g. Govt. schools, villages, etc.).

Nonetheless, SDA may take up some projects in keeping with its topography and geographical conditions and as per administrative approval from State Government for implementation of Energy Efficiency activities in the State.

- 2. Estimation of cost of the planned endeavour:** Walk-through energy audit/ survey shall be carried out at the selected site for ascertaining the quantity and rating of existing inefficient appliances viz. luminaries, fans, pumps, etc. and also of energy efficient appliances which shall replace the existing ones. Requirement of energy efficient lighting solutions viz. timer controls, photo-sensor controls (for street lighting), occupancy sensor controls, etc. may be determined. Cost of engaging implementing agency, procuring appliances, monitoring & verification (M&V) of energy savings, transportation, storage and other miscellaneous costs shall be estimated.



In case of training programmes and awareness campaigns to be conducted, quantity of targeted audience and cost of logistics, preparation and printing of training course material, engagement of agency (if any), etc. shall be estimated.

- 3. Incorporation of the planned endeavour alongwith its estimated cost in the AAP:** SDAs are required to refer physical and financial outlays under the scheme including the Output-Outcome Matrix as cited before, to prepare their AAP for a financial year. Detailed proposal for implementing an endeavour comprising of its description, specific details like quantity and rating of lights and fans to be replaced and replaced with, other energy conservation measures planned like energy efficient lighting solutions, etc., strategy adopted for project implementation, approach for its replication, etc. including the cost estimated for project implementation may be submitted to BEE and the same shall be incorporated in SDAs AAP for a particular financial year and furnished to BEE latest by 15<sup>th</sup> February of the preceding financial year.



## **IV. Operational Guidelines for implementation of activities under “Providing financial assistance to SDAs to coordinate, regulate and enforce efficient use of energy and its conservation at the State level”**

### **a. Guidelines for Implementation of Demonstration Projects under ‘State Partnership for Energy Efficiency Demonstrations (SPEED)’**

The objective of this component is to implement energy efficiency demonstration projects in the states to showcase the effectiveness of energy efficient devices / technologies.

These demonstration projects may be implemented in the following areas:

#### **1. Replacement of existing old inefficient water pump sets with energy efficient pump sets of drinking water supply systems in municipalities and rural areas.**

##### **Implementation Methodology:**

- SDA may request the urban development commissioner to identify 2-3 municipalities / rural areas comprising of 50-100 nos. of drinking water pump sets. This aspect is relaxed for North Eastern states, Union Territories and other special category states.
- Walk-through energy audit may be undertaken to identify the energy saving potential with a comparative statement which may include the specifications of the energy efficient pump sets to be procured by the agency to be engaged and the feasibility report may be prepared.
- SDA may incorporate the proposal in their Annual Action Plan and submit it to BEE latest by 15<sup>th</sup> February for the next FY.
- BEE will analyse the proposal and release funds accordingly.



- Implementation of the project, i.e. requisite replacement of existing old inefficient pumpsets with energy efficient ones in municipalities and rural areas may be undertaken through following ways.
  - a. SDA may implement the project on its own (by itself).
  - b. SDA may appoint an external implementing agency for the project through competitive bidding process (by floating an RfP, prepared in consultation with concerned municipality / PHE (Public health engineering) department conforming to General Financial Rules. Work order may be issued to the selected agency for procurement of targeted appliances and implementation of the project within stipulated timeline.
  - c. DISCOMs can be approached to operate as implementing agency of the project.
- Completion report along with estimated energy savings and envisaged outcomes of the project may be submitted by the implementing agency to the SDA, which may be forwarded to the concerned municipality / PHE department and BEE.
- A robust mechanism for Monitoring & Verification (M&V) may be devised. The M&V may be undertaken by the same agency and report may be submitted to SDA comprising of the actual energy savings achieved. The SDA may get actual energy savings achieved certified by DISCOMs.
- SDA may forward the report to the urban development commissioner to replicate the project for replacement of existing inefficient pump sets of other municipalities either on capex mode or on ESCO mode. In addition to this, following strategies may be adopted for large-scale replication of the project.
  - a. Report of case studies of these projects may be published and distributed amongst concerned departments across the State.



- b. Documentary video on these projects may be prepared and forwarded to urban development commissioner, the municipalities / PHE departments within the State and BEE.
- c. State-level workshops having representation from urban development departments, urban local bodies, PHE departments, DISCOMs, ESCOs, Financial Institutions, Energy Auditors / Managers, etc. and BEE may be convened.

**2. Retrofitting of appliances viz. luminaries, fans, air conditioners, etc. in iconic govt. buildings like Legislative Buildings, the Secretariat, buildings of fire station, monuments, heritage sites (preferably those identified by Archaeological Survey of India, UNESCO), govt. hospitals, District GPOs, Office of District Collectors, etc. This may also be accompanied by installation of smart meters for the building complexes / premises.**

#### **Implementation Methodology:**

- SDA may request Principal Secretary of concerned department / District Collector to identify the building for undertaking requisite demonstration project as mentioned above.
- Walk-through energy audit may be undertaken to identify the energy saving potential with a comparative statement which may include the specifications of the energy efficient electrical equipment / appliances to be procured by the agency to be engaged and the feasibility report may be prepared.
- SDA may incorporate the proposal in their Annual Action Plan and submit it to BEE latest by 15<sup>th</sup> February for the next FY.
- BEE will analyse the proposal and release funds accordingly.
- Implementation of the project, i.e. requisite retrofitting of the identified building may be undertaken through following ways.



- a. SDA may implement the project on its own (by itself).
  - b. SDA may appoint an external implementing agency for the project through competitive bidding process (by floating an RfP, prepared in consultation with concerned authority / beneficiary) conforming to General Financial Rules. Work order may be issued to the selected agency for procurement of targeted appliances and implementation of the project within stipulated timeline.
  - c. SDA may implement the project through State Public Works Department (PWD).
  - d. DISCOMs can be approached to operate as implementing agency of the project.
- Completion report along with estimated energy savings and envisaged outcomes of the project may be submitted by the implementing agency to the SDA, which may be forwarded to the concerned authority / beneficiary and BEE.
  - A robust mechanism for Monitoring & Verification (M&V) may be devised. The M&V may be undertaken by the same agency and report may be submitted to SDA comprising of the actual energy savings achieved. The SDA may get actual energy savings achieved certified by DISCOMs.
  - SDA may put up the report to the Principal Secretary of concerned department / concerned authority to replicate the project for replacement of existing inefficient appliances in other govt. buildings either on capex mode or on ESCO mode. In addition to this, following strategies may be adopted for large-scale replication of the project.
    - a. Report of case studies of these projects may be published and distributed amongst concerned departments across the State.
    - b. Documentary video on these projects may be prepared and forwarded to concerned authority / department within the State and BEE.



- c. State-level workshops having representation from urban development departments, DISCOMs, ESCOs, Financial Institutions, Energy Auditors / Managers, etc. and BEE may be convened.

### **3. Replacement of existing inefficient agricultural pump sets with energy efficient ones.**

#### **Implementation Methodology:**

- Metered connection shall be a pre-requisite for selecting agricultural pump sets to be replaced.
- SDA may request State Agriculture Department / DISCOM to identify agriculture feeder, requiring the replacement of about 100 nos. of existing inefficient pump sets across the State. This aspect of identification of minimum no. of agricultural pumpsets is relaxed for North Eastern states, Union Territories and other special category states.
- Walk-through energy audit may be undertaken to identify the energy saving potential with a comparative statement which may include the specifications of the energy efficient agricultural pumpsets to be procured by the agency to be engaged and the feasibility report may be prepared.
- SDA may incorporate the proposal in their Annual Action Plan and submit it to BEE latest by 15<sup>th</sup> February for the next FY.
- BEE will analyse the proposal and release funds accordingly.
- Implementation of the project, i.e. requisite replacement of the identified existing inefficient agricultural pumpsets with energy efficient ones may be undertaken through following ways.
  - a. SDA may implement the project on its own (by itself).
  - b. SDA may appoint an external implementing agency for the project through competitive bidding process (by floating an RfP, prepared in



consultation with concerned authority / DISCOM) conforming to General Financial Rules. Work order may be issued to the selected agency for procurement of targeted agricultural pumpsets and implementation of the project within stipulated timeline.

- c. DISCOMs can be approached to operate as implementing agency of the project.
- Completion report along with estimated energy savings and envisaged outcomes of the project may be submitted by the implementing agency to the SDA, which may be forwarded to the concerned authority / DISCOM and BEE.
  - A robust mechanism for Monitoring & Verification (M&V) may be devised. The M&V may be undertaken by the same agency and report may be submitted to SDA comprising of the actual energy savings achieved. The SDA may get actual energy savings achieved certified by DISCOMs.
  - SDA may put up the report to the State Agriculture Department to replicate the project for replacement of existing inefficient agricultural pumpsets either on capex mode or on ESCO mode. In addition to this, following strategies may be adopted for large-scale replication of the project.
    - a. Report of case studies of these projects may be published and distributed amongst concerned departments across the State.
    - b. Documentary video on these projects may be prepared and forwarded to concerned authorities / departments within the State and BEE.
    - c. State-level workshops having representation from agriculture department, directorate of agriculture, DISCOMs, ESCOs, Financial Institutions, Energy Auditors / Managers, etc. and BEE may be convened.



#### **4. Installation of smart meters in municipalities, government buildings, government residential colonies, PSU townships, Defence stations, etc.**

##### **Implementation Methodology:**

- SDA may request concerned authorities / DISCOMs to identify the beneficiary for undertaking installation of smart meters.
- RfP may be prepared in consultation with the concerned authority / DISCOM.
- Agency may be engaged through competitive bidding process conforming to General Financial Rules.
- Agency may submit feasibility report to the SDA.
- SDAs may incorporate the proposal in their Annual Action Plan and submit it to BEE latest by 15<sup>th</sup> February for the next FY.
- BEE will analyse the proposal and release funds accordingly.
- Work order may be issued to the agency for procurement of smart meters and implementation of the project within stipulated timeline.
- Completion report along with estimated energy savings and envisaged outcomes of the project may be submitted by the agency to the SDA, which may be forwarded to the concerned authority / DISCOM and BEE.
- Impact of the project may be assessed by the same agency and report comprising of significant benefits achieved may be submitted to SDA.
- SDA may put up the report to the concerned authorities / DISCOMs to replicate the project for installation of smart meters in other areas either on capex mode or on ESCO mode. In addition to this, following strategies may be adopted for large-scale replication of the project.



- a. Report of case studies of these projects may be published and distributed amongst concerned departments / DISCOMs across the State.
- b. Documentary video on these projects may be prepared and forwarded to concerned authorities / departments within the State and BEE.
- c. State-level workshops having representation from concerned department, DISCOMs, ESCOs, Financial Institutions, Energy Auditors / Managers, etc. and BEE may be convened.

**5. Demonstration projects on LED street lighting shall not be undertaken in the regions where these projects are already being implemented on commercial basis. If LED street lighting-based pilot projects are to be undertaken, these can be taken up in places of cultural or tourism importance within cities, Gram Panchayats, Talukas, Haats, etc. where such projects are not commercially viable.**

***Other criteria are as follows:***

- (i) The financial support provided for demonstration projects will include establishment of the baseline energy consumption, replacement of the existing fixtures / equipment / appliances with energy efficient ones, peripheral expenditures like wiring etc., cost of measurement and verification and display boards to highlight the effectiveness of the energy efficient technology.
- (ii) SDA should aim to award the project within 3 months from the date of budget allocation for demonstration project.
- (iii) Once UC for 60% of the funds disbursed under this component for a financial year is submitted, SDAs are allowed to submit proposal for undertaking new demonstration projects for seeking additional grant from BEE under this component in the same financial year.



- (iv) Procurement of energy efficient appliances / equipment shall be made as per applicable BIS Standards.
- (v) A survey needs to be conducted periodically by the implementing agency to monitor the performance of the energy efficient equipment / appliances.
- (vi) It is recommended to develop detailed disposal plan to ensure that the replaced equipment / appliances are not reused.
- (vii) A hoarding / display board indicating the name of Energy Efficient project implemented, name, logo & slogan of the funding organization (Bureau of Energy Efficiency) and name, logo & slogan of the implementing organization (State Designated Agency) needs to be provided at the beginning and the end of the location where project is implemented.
- (viii) LED controlled monitor displaying videos on energy conservation and energy efficiency may be installed after implementation of the project.

**b. Guidelines for Implementation of Energy Efficiency activities in Government schools within the state under 'State Partnership for Energy Efficiency Demonstrations (SPEED)'**

As stated earlier, objective of this endeavor is to replace all existing conventional luminaries with atleast BEE 4-star rated LED fixtures and conventional fans with super-efficient fans in schools across the country, initiating with the Govt. schools. Considering that schools have been neglected in the area of energy efficiency, there exists a huge potential of energy savings in schools.

**1. Selection / Identification of Government Schools:**

- The SDA may pursue State Education Department or Kendriya Vidyalaya zonal heads or *concerned authorities* for identifying Government schools, wherein, replacement of existing conventional luminaries and fans with LED luminaries and energy efficient BEE star-rated fans shall be undertaken. *For e.g. each District Collector within the state may be requested to provide*



*list of 5-10 Government Schools in respective district for carrying out energy efficiency related activities therein.* Total of about 100-200 nos. of Govt. schools are required to be identified by the SDA.

- Concurrence on the list of Government schools located within the state for undertaking necessary energy efficiency activities should be obtained from the Competent Authority of the SDA.
- Kendriya Vidyalayas (KVs) and Jawahar Navodaya Vidyalayas (JNVs) located within the state should be kept at priority while executing this endeavour in Govt. schools.
- Subsequent priority should be given to SC/ST welfare residential schools and district higher secondary boys / girls school while selecting the Government Schools as beneficiary of this programme.
- The minimum strength of students in a selected school should be 400-500. This aspect is relaxed for North Eastern states, Union Territories and other special category states.

## **2. Implementation Methodology:**

- Walk-through energy audit / survey may be carried out in all the selected schools for identifying the quantity and rating of luminaries and fans needed to be replaced with energy efficient luminaries and fans.
- Priority should be given to classrooms while identifying the areas for carrying out this activity of necessary replacement.
- Quantity and rating of appliances which shall replace the existing luminaries and fans in the identified areas of the schools shall be ascertained.
- Requirement of energy efficient lighting solutions viz. timer controls, photo-sensor controls (for street lighting in schools), occupancy sensor controls, etc. may be determined.
- Detailed proposal for implementing this endeavour in a definite number of Government schools, comprising of the list of schools, specific details like quantity and rating of lights and fans to be replaced and replaced with, other energy conservation measures planned like energy efficient lighting solutions, etc., strategy adopted for project implementation, approach for



its replication, etc. including the cost estimated for project implementation may be submitted to BEE and the same shall be incorporated while submitting your Annual Action Plan for a particular financial year to BEE latest by 15<sup>th</sup> February of the preceding year.

- BEE will analyse the proposal and release funds accordingly.
- Implementation of the endeavour may be undertaken through following ways.
  - a. SDA may implement the project on its own (by itself).
  - b. SDA may appoint an external implementing agency for the project through competitive bidding process (by floating an RfP, prepared in consultation with concerned authority) conforming to General Financial Rules. Work order may be issued to the selected agency for procurement of targeted luminaries and fans and implementation of the project within stipulated timeline.
  - c. DISCOMs can be approached to operate as implementing agency of the project.
- Completion report along with estimated energy savings and envisaged outcomes of the project may be submitted by the implementing agency to the SDA, which may be forwarded to the State Education Department, other concerned authorities and BEE.
- A robust mechanism for Monitoring & Verification (M&V) may be devised. The M&V may be undertaken by the same agency and report may be submitted to SDA comprising of the actual energy savings achieved. The SDA may get actual energy savings achieved certified by DISCOMs.
- SDA may put up the report to the State Education Department to replicate the project for replacement of existing inefficient luminaries and fans with energy efficient ones in Govt. schools either on capex mode or on ESCO mode. In addition to this, following strategies may be adopted for large-scale replication of the project.
  - a. Report of case studies of these projects may be published and distributed amongst concerned departments across the State.



- b. Documentary video on these projects may be prepared and forwarded to concerned authorities / departments within the State and BEE.
  - c. State-level workshops having representation from education department, other concerned authorities, DISCOMs, ESCOs, Financial Institutions, Energy Auditors / Managers, etc. and BEE may be convened.
3. SDA should aim to award the project within 3 months from the date of budget allocation for the project.
4. Once UC for 60% of the funds disbursed under this component for a financial year is submitted, SDAs are allowed to submit proposal for undertaking new demonstration projects for seeking additional grant from BEE under this component in the same financial year.
5. A survey needs to be conducted periodically by the implementing agency to monitor the performance of the energy efficient equipment / appliances.
6. It is recommended to develop detailed disposal plan to ensure that the replaced equipment / appliances are not reused.
7. A hoarding / display board indicating the name of Energy Efficient project implemented, name, logo & slogan of the funding organization (Bureau of Energy Efficiency) and name, logo & slogan of the implementing organization (State Designated Agency) needs to be provided at the premises of schools where project is implemented.
8. LED controlled monitor displaying videos on energy conservation and energy efficiency may be installed after implementation of the project.



## **c. Guidelines for Implementation of Model Energy Efficient Village Campaign**

Under this component, existing inefficient equipment like household lamps, street lights, fans and water pumps (agriculture, drinking water, etc.) are required to be replaced with energy efficient BEE star labeled appliances.

### **1. Selection / Identification of Villages:**

- The SDA may pursue with the Principal Secretary, Rural Development for identifying 4-5 villages, wherein, necessary replacement of existing conventional luminaries, pumps and fans with LED luminaries, energy efficient BEE star-rated pumps and fans shall be undertaken respectively in households, Panchayat Bhawan, Community Centres, Healthcare Centres, schools, temples, monuments, haats/ mandis, etc. in the selected villages.
- In addition to the above, energy efficient street lights are required to be installed.
- Identified villages shall comprise of minimum 200 nos. of households. This aspect is relaxed for North Eastern states, Union Territories and other special category states.
- Concurrence on the list of villages located within the state for undertaking necessary energy efficiency activities should be obtained from the Competent Authority of the SDA.
- While selecting the villages, preference should be given to progressive villages like those identified under Aspirational Districts (identified by NITI Aayog), Aadarsh Gram, Swachh Gram, etc.

### **2. Implementation Methodology**

- RfP for engaging agency for implementation of this endeavour may be floated in consultation with concerned authority.



- Agency may be engaged through competitive bidding process conforming to General Financial Rules.
  - Walk-through audit may be undertaken to identify the energy saving potential with a comparative statement which may include the specifications of the energy efficient electrical equipment / appliances to be procured by the agency and the feasibility report may be submitted to the SDA.
  - Provision of proper switching arrangements for street lights and other places should be ensured.
  - SDAs may incorporate the proposal in their Annual Action Plan and submit it to BEE latest by 15<sup>th</sup> February for the next FY.
  - BEE will analyse the proposal and release funds accordingly.
  - Work order may be issued to the agency for procurement and implementation of the project within stipulated timeline.
  - Completion report alongwith estimated energy savings may be submitted by the agency to the SDA, which may be forwarded to BEE.
  - Monitoring & Verification may be undertaken by the same agency and report may be submitted to SDA with actual energy savings achieved.
3. SDA should aim to award the project within 6 months from the date of budget allocation for Model Energy Efficient Village Campaign.
  4. A survey needs to be conducted periodically by the implementing agency to monitor the performance of these appliances.
  5. Once UC for 60% of the funds disbursed under this component for a financial year is submitted, SDAs are allowed to submit proposal for undertaking new villages for seeking additional grant from BEE under this component in the same financial year.
  6. It is recommended to develop detailed disposal plan to ensure that the replaced equipment / appliances are not reused.
  7. A hoarding / display board indicating the name of Energy Efficient project implemented, name, logo & slogan of the funding organization (Bureau of Energy Efficiency) and name, logo & slogan of the implementing



organization (State Designated Agency) needs to be provided at prominent places in villages including entrance of the village, Panchayat Bhawan, Community Centres, Healthcare Centres, schools, temples, monuments, haats / mandis, etc.

**d. Guidelines for utilizing funds under Institutionalization of Enforcement Machinery at State level**

- (i) The fund is towards conducting training programs for the inspectors so that scenario of overdependence on energy professionals is avoided and capacities of inspectors are strengthened. A mechanism needs to be created so that regular interaction can occur between the inspectors and the energy professionals.
- (ii) SDAs may engage with energy professionals located in their state like Energy Auditors / Energy Managers / Accredited Energy Auditors to impart the requisite training.
- (iii) The training programs may focus on the role of the SDAs in enforcing the mandatory notification of BEE Star Labeled products in the States, smooth implementation of the Perform Achieve and Trade (PAT) scheme and ensuring compliance of Designated Consumers (DCs).
- (iv) The fund may be utilized for imparting training to Adjudicating Officer appointed by the State Electricity Regulatory Commission (SERC) regarding provisions of the EC Act. SDAs may also utilize this fund for availing legal support, in order to file petition at the SERC against the defaulters and its subsequent proceedings at SERC.
- (v) In States, where there is limited presence of energy professionals, SDAs may organize such training programs with other important stakeholders and invite professionals from other States to increase awareness in their States.



- (vi) A detailed plan identifying area of training, trainers, schedule, and target audience must be provided to BEE.
- (vii) Officials of SDAs may visit DCs for understanding various industrial processes and energy efficiency measures adopted by Designated Consumers. SDA officials may carry out visits to markets for carrying out surveillance to check integrity/ deviation from the star labels approved by BEE.
- (viii) Documentation of regular progress made in this subject should be submitted to BEE.

**e. Guidelines for Manpower Support to the SDAs**

**1.0 General Terms and Conditions-**

- (i) The manpower hired through direct recruitment or through an agency will be on purely contractual basis and shall be for a maximum period upto 31<sup>st</sup> March of the end year of the approved SFC document.
- (ii) This manpower will be stationed at SDA headquarter or any other location in the state depending on the requirement of the SDA.
- (iii) The experience for engaging various manpower can be relaxed in case of candidates possessing outstanding academic records from reputed Institutes like Indian Institutes of Technology (IITs) and Institutes of National Importance (INIs). The model guidelines for hiring of manpower are enclosed.
- (iv) In case the state government rules do not permit hiring of manpower on contractual basis, the SDA shall consider hiring manpower through deputation from other State government departments.



- (v) The SDAs shall follow all codal formalities of State Govt. for hiring of these manpower and making payment towards their TA, DA etc.
- (vi) BEE shall not be responsible for any administrative issues related to these manpower. Chief Executive Officer of the State Designated Agency shall be responsible for administrative issues pertaining to this manpower which shall include their hiring and termination among other issues, if any.

## **2.0 Approved Manpower under “Manpower Support to the SDAs”**

- (i) 2 number of manpower support will be provided to enable the SDAs to coordinate, regulate and enforce various provisions of the EC Act 2001 who will be experienced in the field of energy efficiency. The manpower engaged for the said activity may be known as Energy Consultant.
- (ii) 1 number of manpower support will be provided for management of State Energy Conservation Fund (SECF). The manpower engaged for this activity may be known as Energy Consultant.
- (iii) Depending upon number of DCs in the state, minimum 1 number of manpower will be provided to facilitate smooth implementation of the PAT scheme. For SDAs having more than 10 DCs in their states, 2 number of manpower were provided towards PAT. The manpower engaged for this activity may be known as Senior Energy Consultant (PAT Scheme).

## **3.0 Eligibility and Qualification Criteria of Energy Consultant and Senior Energy Consultant**

### **3.1.1 Manpower 1 (Two Number)**

**Area of Work:** To enable the SDAs to coordinate, regulate and enforce various provisions of the EC Act 2001



## **Minimum Educational Qualification & Experience Required**

AICTE / Govt. approved Bachelor Degree in Engineering with minimum of 60% marks or equivalent grade in the engineering degree examination and a minimum of three years' work experience in energy efficiency and its conservation, energy auditing, etc. Preference should be given to BEE Certified Energy Auditor / Manager.

### **The brief role and responsibilities of Manpower 1 are as follows-**

- Preparation of annual action plans including budget estimation
- Preparation of quarterly and annual reports indicating the achievements realized for submission to BEE
- Interaction with other Govt. Dept. / Organizations and Industries
- Facilitation in state level awards
- Facilitation in implementation of all programmes run by BEE
- Preparation of schemes / policies for promoting energy conservation
- Facilitation in carrying out impact assessment study through a third-party at the end of plan period
- Exploring new areas for implementation of energy conservation measures in the state
- Finalization and vetting of Detailed Project Reports (DPRs) for energy efficiency projects.
- Conduct field visits for implementation and monitoring of different energy conservation activities
- Organizing awareness campaigns, workshops, seminars for different sectors and general public
- Facilitating conduct of energy audit and Investment Grade Energy Audit of industries and industry clusters, irrigation and water pumping systems, sewage systems, street lighting systems, buildings etc.
- Undertake activities as per the requirement of BEE as prescribed from time to time
- Submission of monthly progress report to BEE by 5<sup>th</sup> of every month and any other data/information sought from BEE as and when required
- Submission of updated Utilization Certificate from time to time



## **Facilitate smooth and timely implementation of other schemes of BEE.**

### **Standards & Labelling Scheme:**

- Facilitate in building capacity of the manufacturers and retailers of BEE star labeled appliances
- Facilitate in conduct of consumer awareness programs to spread awareness
- Facilitate in ensuring larger penetration for voluntary products
- Facilitate in enforcement of provisions pertaining to appliances under the EC Act

### **Buildings Scheme:**

#### **New Commercial/Residential Buildings**

- Facilitate in amendment and notification of ECBC to suit local climatic conditions
- Facilitate in incorporation of amended ECBC in municipal building bye-laws
- Facilitate in capacity building of architects, designers and verifiers for ECBC compliant buildings.
- Facilitate in imparting training to building owners on submission of required data as per prescribed format once buildings are notified as DCs

#### **Existing Commercial/Residential Buildings**

- Facilitate retrofit through ESCO route or by building owners themselves
- Facilitate promotion of star labelling scheme of BEE

### **Municipal DSM:**

- Facilitate in preparation of DPRs on pilot projects identified in ULBs
- Facilitate in selection of ULBs for implementation of DPRs
- Facilitation in actual implementation in the ULBs
- Facilitation in training/ capacity building of officials of ULBs

### **Agricultural DSM:**

- Facilitate issue of regulations / notifications by the State Govt. to mandate the use of BEE star labeled pump sets for new agricultural connections.



- Facilitate in setting up of monitoring mechanism to quantify the outcome
- Facilitation in conduct of capacity building programmes for imparting training on energy & water conservation and energy efficient pumpsets to farmers through Krishi Vigyan Kendras

In addition to the above, the manpower provided will be required to do any other task pertaining to schemes of BEE as per direction of Competent Authority of BEE.

### **3.1.2 Manpower 2 (One Number):**

**Area of Work:** Management of State Energy Conservation Fund (SECF)

#### **Minimum Educational Qualification and Experience Required**

AICTE / Govt. approved Bachelor Degree in Engineering with minimum of 60% marks or equivalent grade in the engineering degree examination with 2 years MBA / Post Graduate Diploma in Energy Management/ Post Graduate Diploma in Business Administration or equivalent with specialization in Finance (AICTE / Govt. approved.). The incumbent should also possess a minimum of three years' work experience in energy efficiency or its conservation, energy auditing, etc. Preference should be given to BEE Certified Energy Auditor / Manager.

#### **The brief role and responsibilities of Manpower 2 are as follows-**

- Identifying sectors where pilot projects can be implemented on Revolving Investment Fund (RIF) mode.
- Facilitate in implementation of the energy efficiency demonstration projects by Utilizing major portion SECF as RIF, in accordance with the guidelines for utilization of SECF.
- Overall management of SECF.
- Providing any other data/information sought by BEE from time to time.



### **3.1.3 Manpower 3 (Numbers depending upon DCs in State, Maximum 2 nos.):**

**Area of Work:** Facilitate smooth and timely implementation of activities under Perform, Achieve and Trade (PAT) scheme of BEE

#### **Minimum Educational Qualification and Experience Required**

AICTE / Govt. approved Bachelor Degree in Engineering with minimum of 60% marks or equivalent grade in the engineering degree examination, possessing a certificate of Energy Auditor / Energy Manager from the Bureau of Energy Efficiency and having experience of handling activities related to Designated Consumers. The incumbent should also possess a minimum of five years' work experience in energy efficiency or its conservation and energy auditing.

#### **The brief role and responsibilities of Manpower 3 are as follows-**

Performing the following roles for smooth implementation of PAT in consultation with the concerned officer-in-charge of Bureau of Energy Efficiency.

- Rule 5 – Form, manner and time for preparation of scheme for implementation of efficient use of energy and its conservation: Guidelines may be provided to SDAs detailing the actions to be undertaken on the action plan submitted by the DC.
- Rule 6 – Assessment of performance: For sub-rule (7) under rule (6), format and guidelines may be provided to SDAs for furnishing comments on Form 'A' to BEE.
- Rule 8 – Check Verification: For sub-rule (2a) & (11) under rule (8), format and guidelines may be provided to SDAs for furnishing comments to BEE.
- Rule 8 – Check Verification: For sub-rule (14) under rule (8), guidelines specifying the procedure to be adopted and the official responsible to initiate penalty proceedings may be provided to SDAs.



- Rule 8 – Check Verification: For sub-rule (15a) under rule (8), guidelines may be provided to SDAs detailing the actions to be undertaken to recover from the DC the loss to the Central Govt. by way of unfair gain to the DC.
- Rule 13 – Compliance of energy conservation norms and standards: Guidelines detailing the action to be taken by the SDA regarding submission of compliance as per Form 'D' by DC.
- Any other data/information sought by BEE as and when required.

#### **4.0 Monthly Remuneration of engaged Manpower:**

- The monthly remuneration of Senior Energy Consultant (for PAT scheme- Manpower 3) shall not exceed Rs. 65,000/-.
- The monthly remuneration of manpower working as Energy Consultant (for other activities under SDA, SECF scheme- Manpower 1 and Manpower 2) shall not exceed Rs. 50,000/-.

#### **f. Guidelines for State Energy Efficiency Research & Outreach Programme**

- (i) SDAs may collaborate with various private organizations, educational and research institutions & laboratories for know-how on various energy efficiency practices across various sectors.
- (ii) In order to encourage innovative projects and research in energy efficiency, financial assistance for research proposals may also be provided to these Institutions, Colleges and Individual researchers in the field of energy studies. The financial assistance will be given on the basis of detailed evaluation of the research proposals by an expert committee comprising of BEE and SDA officials.
- (iii) SDAs can draw key experts and can undertake extensive stakeholder engagement, comprehensive analysis and more focused technical assistance to enhance clean energy policy implementation in the State.



- (iv) SDA may collaborate with Institutes of National Importance (INIs) like NITs, IIMs, IITs, etc. for developing projects based on Internet of Things (IoT).
- (v) The following implementation strategies can be adopted by the SDAs to enhance outreach activities undertaken by them among the masses about the benefits of energy efficiency and energy conservation:
- Content for promotional material like pamphlets, booklets, banners, brochures, posters, etc. may be developed / compiled in English and local dialects.
  - Appropriate campaign mechanisms may be developed keeping in view target audience, likely penetration impact, likely sponsorship and support of energy efficient equipment manufacturers, Govt. Depts., periodicity of campaigns, cost benefits.
  - Awareness campaigns for interdepartmental officials in states may be carried out apprising about significance of maintaining data on energy consumption and savings (management of data related to Energy Efficiency).
  - Appropriate content on energy efficiency and energy conservation may be developed for school education curriculum in English and local dialects drawing from existing content available and developing additional content with cooperation/inputs from State education department/board and experienced teachers/academicians.
  - Awareness campaigns on energy efficient products and services may be conducted.
  - Awareness / capacity buildings workshops to save energy and to encourage use of BEE star rated agricultural appliances may be conducted for farmers.
  - Hoardings may be installed at Collectorate, District Court, Block, various govt. offices, monuments, etc. to disseminate information on promotion of efficient use of energy and its conservation for general public.



- SDAs may associate with DISCOMs for conducting Nukkad Nataks/ skits/ dramas/ plays for creating awareness on the importance of energy conservation.
  - Awareness workshops for Self Help Groups to promote various energy conservation tips may be organized in villages.
  - Stalls of BEE may be set up in Kisan Melas, for creating awareness among farmers through Krishi Vigyan Kendras (KVKs).
  - Stalls of BEE may be set up in Regional Melas, National and international fair.
  - Awareness hoardings at various prominent locations like Bus stands, Railway Stations, entrance of airports, etc.
  - Energy Conservation day and week shall be celebrated every year on district and block levels to create awareness among rural and urban people.
  - Awareness workshops for school teachers, women, school children and general public on energy conservation & its efficient use shall be organized.
  - Promoting the ideas on energy conservation through stories and ads on TV and Radio jingles may be undertaken.
  - Awareness through social media platforms like Facebook, twitter, etc.
- (vi)** SDAs must pursue with the State Governments for contribution of funds from State budget to promote the publicity/awareness on Energy Efficiency in States.
- (vii)** Since the budget allocation under this component is miniscule, advertisements in print media should be avoided from the budget allocated under State Energy Efficiency Research & Outreach Programme.
- (ix)** Officials of SDAs may visit DCs for understanding various industrial processes and energy efficiency measures adopted by Designated Consumers. SDA officials may carry out visits to markets for carrying out



surveillance to check integrity/ deviation from the star labels approved by BEE.

- (viii) Documentation of regular progress made in this subject should be submitted to BEE.

**g. Guidelines for conducting Workshops / Capacity Building Programmes for Energy Professionals**

- (i) The SDAs are required to organize at least 5 workshops / training programmes during each Financial Year.
- (ii) Target audience may include Accredited / Certified Energy Auditors / Energy Managers, Designated Consumers (DCs), Energy Service Companies (ESCOs), building professionals, architects, ECBC Master Trainers, equipment / appliance manufacturers and retailers, Financial Institutions, Urban Local Bodies, DISCOMs, etc.
- (iii) The minimum strength of participants from targeted audience in each programme should be 20. This aspect is relaxed for North Eastern states, Union Territories and other special category states.
- (iv) Dedicated manpower employed in SDA are to be trained and given first preference to train and enhance capacity in energy efficiency related areas.
- (v) Main focus of the SDA shall remain on creation of Master Trainers on various subjects pertaining to energy efficiency in order to enable them impart training to multitudes within the State. These Master Trainers may operate as resource persons for majority of the wide-scale training programmes being conducted across the State.
- (vi) A detailed plan identifying area of training, trainers, schedule, target audience and course content / material for the training programme must be provided to BEE.



- (vii) Slots for experts/speakers from BEE for special comments should be kept in all workshops organized by the SDAs.
- (viii) Outcomes / learnings of every workshop shall be documented and subsequently submitted to BEE in the form of report also including the attendance sheet and feedback forms received from the participants. Attendance sheet should comprise of name of the participant, organization and designation, contact details (mobile no. and email id), copy of Govt. Id Card and signature.
- (ix) In states, where there is limited presence of these professionals, SDAs shall organize such workshops / training programmes with other important stakeholders and may invite professionals from other states to increase awareness in their states.
- (x) SDA shall facilitate the conduct of workshops / training programmes organized by BEE periodically and participate in them.

#### **h. Guidelines for Analysis & Survey of the Impact of Energy Conservation Activities**

- (i) The year-wise energy savings achieved by the SDAs from energy efficiency activities/ endeavours undertaken by the SDAs shall be documented in the form of report used for ascertaining the energy savings achieved vis-à-vis the target achieved.
- (ii) The required document should be in the form of an annual year book where the benefits can be quantified on multiple dimensions including the monetary benefits based on the reduction in the number of units consumed by this sector, generation capacity that can be avoided by the generation utility because of the reduction in demand in this sector or



can be used to satisfy the peak demands, emissions avoided by reducing the generation requirements.

- (iii)** SDAs may hire an independent agency to perform the above-mentioned impact assessment annually and prepare annual reports which can be submitted to BEE.
- (iv)** The SDAs shall also present the findings of this report to the State Government which will facilitate in enhanced awareness among various departments of the State Governments about the benefits of energy efficiency.
- (v)** SDAs can organize regional yearly conferences to disseminate the impact of energy efficiency activities among themselves. This will result in sharing of best practices among the SDAs and removal of hindrances for implementation of energy efficiency activities, if any, since regional issues are mostly similar.
- (vi)** SDAs are encouraged to constitute State level committees headed by the Chief Secretary to review the analysis report on the impact of energy conservation activities at the State level.
- (vii)** BEE releases State Energy Efficiency Index annually. This Index assesses state policies and programmes aimed at improving energy efficiency in different sectors viz. buildings, industries, municipalities, transportation, agriculture and electricity distribution (DISCOMs), etc. and examines states' policies and regulations, financing mechanisms, institutional capacity, adoption of energy efficiency, resultant energy savings achieved, etc. SDAs shall furnish data / information arising from the said impact assessment to BEE for periodic release of State Energy Efficiency Index.



## **i. Guidelines for Maintenance and Updation of Internet Platform and other Database Created**

- (i)** The SDAs must create dedicated tab for Energy Conservation/ Efficiency.
- (ii)** The dedicated tab may hold the following information for public reference:
  - EC Act, 2001 Document.
  - About BEE, the respective SDA and details of the contact persons.
  - List of EAs/EMs of the State.
  - List of Demo Projects taken up and planned by the State.
  - Details of Model EE Village Campaigns completed and planned by the SDA.
  - Details regarding workshops / seminars / conferences / capacity building programmes completed and upcoming training programmes in the State and learnings / outcomes of the training.
  - State Energy Conservation Fund and projects undertaken from it.
  - Information related to State Energy Conservation Awards.
  - List of Designated Consumers in the State.
- (iii)** Web portal established by SDAs shall comprise of the links of website of BEE and of all the portals of BEE viz. S&L, PATNET, GEF-BEE-World Bank, UNDP-GEF-BEE, Indo-Swiss Building Energy Efficiency Programme (BEEP), Knowledge Exchange Platform (KEP), Facility for Low Carbon Technology Deployment (FLCTD), etc.
- (iv)** The content of the web portal established by the SDAs needs to be updated regularly to have the desired impact.
- (v)** Based on the above, budget is allocated towards maintenance and updation of internet platform and other database created.
- (vi)** Infrastructure for video conferencing may be established.



- (vii) BEE is under preparation of a web portal for SDAs where requisite data/ information and documents related to physical and financial progress of respective SDAs is required to be uploaded. These documents are required to be updated on a monthly basis.



## V. Operational Guidelines for implementation of activities under “Contribution to State Energy Conservation Fund”

Section 16 (1) of the Energy Conservation Act 2001 requires State Governments / U.T. Administrations to constitute a fund called **State Energy Conservation Fund (SECF)** for the purpose of promotion of efficient use of energy and its conservation within the State. In this context, the Ministry of Power had approved a scheme titled **Contribution to State Energy Conservation Fund (SECF) of Bureau of Energy Efficiency** during the XI plan, wherein, State Designated Agency (SDA) is the implementing agency. The total contribution is to be made in two installments of 50% each to those States / UTs who have constituted their SECF and finalized the rules and regulations to operationalize the same. The scheme is for contribution to all the State/UTs with a maximum ceiling of Rs. 4.00 crores for any State/UT and is to be provided in two installments of Rs. 2.00 crores each. The second installation of contribution to SECF is released only after the states have provided a matching contribution of Rs. 2.0 Crores (Rs. 25 Lakhs for North Eastern States and Union Territories) to BEE’s first installment.

In the notifications formulated by State Govt. to operationalize SECF, a State Level Steering Committee (SLSC) on SECF is to be constituted for the purposes of regulating and controlling the fund under the Chairmanship of Principal Secretary/Secretary to the State Govt. The notification also states that the State Designated Agency (SDA) shall administer and operate the fund under the guidance of the SLSC. Meeting of the SLSC on SECF must be convened atleast once a year to develop a roadmap for effective utilization of SECF.

For utilization of funds provided under contribution to SECF, the following guidelines shall be followed.

- (i) The energy efficiency activities in the proposal of the SDA against which financial support was sanctioned by BEE may be altered with approval of the SLSC and the same may be informed to BEE before implementation. However, activities like providing loans to consumers for purchase of energy efficient products / appliances, providing any incentives / subsidies to the consumers to



carry out energy efficiency activities and other activities in which financial support is provided under the Strengthening of SDA Scheme should not be considered.

- (ii) The activities under contribution to SECF should not include energy efficiency projects to be executed entirely on grants-in-aid basis. For undertaking energy efficiency projects, the funds disbursed under SECF should be utilized as Revolving Investment Fund (RIF). This fund may be used to finance implementation of energy efficiency projects in public buildings including Central Government, State Government and Central or State Government undertakings / agencies' buildings, energy efficiency street-lighting or common area lighting projects, energy efficiency projects in public drinking water pumping stations and in agricultural pumping, energy efficiency projects in various industrial sectors and MSME clusters etc. SECF will not be used for any other purpose. These funds cannot be used for project related to renewable sources of energy.
- (iii) Investments from revolving portion of the fund may be made under a Performance Contract Model where savings in energy bills achieved will be ploughed back to the SECF. Monetary value of energy savings may be shared between RIF and the facility owners till the investment made by RIF are recovered and it will be on no-profit no-loss basis.
- (iv) **The State Governments may be requested recoup the amount utilized for energy efficiency projects implemented from SECF.**
- (v) **The funds from the SECF may be utilized to implement energy efficiency projects in the Government Sectors and the same may be recovered from the concerned Government Departments on deemed saving model.**
- (vi) **The interest component earned from SECF may be utilized by the SDAs for implementation of energy conservation activities / awareness campaigns on grant-in-aid basis.**
- (vii) **SDAs may seek proposals from Energy Service Companies (ESCOs) for carrying out energy efficiency projects and finance them from SECF for**



**their implementation. Recovery of SECF provided to ESCO may be made by entering into a Contract with the ESCO.**

- (viii) Special legislative measures may be enacted to create new taxes/cess for contributing/ funding to the SECF.
- (ix) A portion of the SECF, not exceeding 15% of the total project cost, may be used for preparatory activities including preparation of DPR and other documents like performance contract, bidding documents etc. Expenditure for management of the project and monitoring and verification can also be made from SECF within the aforementioned limit of 15% of the project cost. Remaining portion of the project cost shall be utilized as Revolving Investment Fund (RIF).
- (x) Detailed monitoring and verification protocols should be clearly defined for the projects and should form part of the performance contract.
- (xi) If required, third party monitoring and verification may be carried out and expenditure on the same may be met from SECF within the limit of 15% of the project cost along with other preparatory activities.
- (xii) All investment decisions for funding projects from SECF should be taken by the SLSC constituted for SECF under the rules framed for SECF by the State Government / SDA.
- (xiii) In case of use of RIF for purposes other than those mentioned in these guidelines, BEE would ask the SDA to return the funds disbursed to SECF under this scheme.
- (xiv) The grant-in-aid is a non-recurring grant and shall be spent for the purpose for which it is sanctioned.
- (xv) The contribution to SECF should not be used to bear recurring expenditure like the operation and maintenance costs and the non-core activities such as



expenditure incurred for making boarding, lodging and food arrangements for officials of various departments/organizations, etc.

- (xvi) Yearly audited account statement of SECF shall be submitted by the SDA within 3 months of closing of the financial year which would include RIF details. The statement should also disclose whether the specified, quantified and qualitative targets that should have been reached against the amount utilized, were in fact reached, and if not, the reasons there of.
- (xvii) The Utilization Certificate (in Form G.F.R. 12-C) in respect of utilization of grants for the purpose for which it was sanctioned should be furnished to the BEE with an audited statement of accounts, within twelve months of the closure of the financial year during which the grant was sanctioned.
- (xviii) All relevant codal formalities and state government rules and regulations including applicable financial rules shall be followed while utilizing these funds.
- (xix) BEE's personnel may be associated with the activities undertaken and it is expected that free exchange of information / literature / data, on a mutual exchange basis, would take place between BEE personnel and the project team.
- (xx) Any consultants / agency hired or materials purchased etc. for carrying out the deliverables of the activities will be taken up as per Standard Government Procurement procedures for such hiring or purchase.
- (xxi) A record of all assets acquired wholly or substantially out of the assistance received shall be prepared and maintained. Such assets shall not be disposed off, encumbered or utilized for other purposes without the prior sanction of the BEE.



# Annexure

## Annexure I

### Annual Action Plan Format

Scheme / Programme	Component		Current Unspent Balance (a)	Committed liabilities to be spent by Month, Year (b)	Net Unspent Balance for FY (a-b)	Additional fund required for FY	Details of activity
			Rs. In Lakh				
Providing financial assistance to the State Designated Agencies to coordinate, regulate and enforce efficient use of energy and its conservation at the State level.	State Partnership for Energy Efficiency Demonstrations (SPEED)	Demonstration Project					
		Implementation of EE activities in Govt. schools					
	Model Energy Efficient Village Campaign						
	Institutionalization of Enforcement machinery at state level						
	Manpower support to SDAs						
	State Energy Efficiency Research & Outreach Programme						
	Workshops / Capacity Building of energy professionals						
	Analysis and survey of the impact of energy conservation activities by SDAs						
	Maintenance and updation of internet platform and other database created						



<b>Building Energy Efficiency Programme</b>					
<b>Agriculture Demand Side Management</b>					
<b>Municipal Demand Side Management</b>					
<b>Small &amp; Medium Scale Enterprises</b>					
<b>Industrial Energy Efficiency / Perform, Achieve &amp; Trade</b>					
<b>General Awareness Programme</b>					
<b>School Awareness Programme / School Capacity Building Programme (SCBP)</b>					
<b>Energy Efficiency Financing Platform under NMEEE</b>					
<b>Human Resource Development (HRD)</b>					



## Monthly Monitoring Matrix

Template for obtaining the physical & financial progress from the SDAs							
Energy Conservation & Efficiency							
1	Name of SDA :						
2	Status of SDA : Electrical Inspectorate/Power Department/Renewable Agency/DISCOM/Independent						
PART A							
3	Overall Financial Expenditure		Monthly Expenditure Incurred (Rs.)				
	Programmes / Deliverables			2012-17	2017-18	2018-19	2019-20
a)	SECF		Released by BEE				
			Actual Expenditure				
			Balance available				
	Providing Financial assistance to SDAs						
a)	State Partnership for Energy Efficiency Demonstrations (SPEED)	Demonstration Projects	Released by BEE				
			Actual Expenditure				
			Balance available				
		Energy Efficiency Activities in Govt. schools	Released by BEE				
			Actual Expenditure				
			Balance available				
b)	Model Energy Efficient Village Campaign		Released by BEE				
			Actual Expenditure				
			Balance available				
c)	Institutionalisation of Enforcement machinery at State level		Released by BEE				
			Actual Expenditure				
			Balance available				
d)	Manpower support to SDAs		Released by BEE				
			Actual Expenditure				
			Balance available				
e)	State Energy Efficiency Research & Outreach Programme		Released by BEE				
			Actual Expenditure				
			Balance available				
f)	Workshops/capacity Building		Released by BEE				
			Actual Expenditure				
			Balance available				
g)	Maintenance & updation of Internet Platform & other database created		Released by BEE				
			Actual Expenditure				
			Balance available				
h)	Analysis and Survey of impact of Energy Conservation activities by SDAs		Released by BEE				
			Actual Expenditure				
			Balance available				
	Total		Released by BEE				
			Actual Expenditure				
			Balance available				
a)	Building Energy Efficiency Programme		Released by BEE				
			Actual Expenditure				
			Balance available				
b)	Agricultural DSM Program		Released by BEE				
			Actual Expenditure				
			Balance available				
c)	Municipality DSM Program		Released by BEE				
			Actual Expenditure				
			Balance available				
d)	Energy Efficiency in SMEs		Released by BEE				
			Actual Expenditure				
			Balance available				
e)	NMEEE / EEFP		Released by BEE				
			Actual Expenditure				
			Balance available				
f)	School/General awarness program		Released by BEE				
			Actual Expenditure				
			Balance available				
g)	Human Resource Development (HRD)		Released by BEE				
			Actual Expenditure				
			Balance available				
H)	Any other EE/EC activities		Released by BEE				
			Actual Expenditure				
			Balance available				



PART B : Physical progress with reference to the activities approved during Annual Action Plan under.						
Activities		FY 2017-18	FY 2018-19	FY 2019-20	Reasons for delay if any :	
a)	<b>State Partnership for Energy Efficiency Demonstrations (SPEED)</b>	Demonstration Projects: •Name & Area of Demonstration Project •Total Project Cost •Status till date				
		Energy Efficiency Activities in Govt. schools: •Total no of schools (List should be enclosed)				
b)	<b>Model Energy Efficient Village Campaign:</b> •Total no of Villages (List should be enclosed) •Type & No. of appliances expected to be replaced •Total no. of appliances replaced so far					
c)	<b>Institutionalisation of enforcement machinery at State level</b>	•Whether Adjudicating Officer appointed by SERC? •Whether Inspecting Officer appointed by SDA? •Any enforcement activities taken up by SDA so far				
d)	<b>Manpower support to SDAs</b>	•Total No. of Consultant / contractual employee engaged (stationed) •Remuneration paid to each consultant •Recruitment Mode (Name of agency , if external)				
e)	<b>State Energy Efficiency Research &amp; Outreach Programme:</b> •Status of any Innovative research in the field of EE/EC •Any collaboration with Technical Institutions for innovative research in the field of EC/EE. •Subject wise outreach programmes organised during FY 2017-18 and FY 2018-19. •Subject wise outreach programmes further planned for FY 2018-19.					
f)	<b>Workshops / Capacity Building:</b> •Subject wise total no. of workshops organised during FY 2017-18 and FY 2018-19. •Subject wise total no. of workshops further planned till March, 2019.					
g)	<b>Analysis and survey of Impact of Energy conservation activities in SDAs:</b>					
h)	<b>Maintenance &amp; updation of Internet Platform &amp; other database created</b>	•Name of the dedicated website for EE/EC activity by SDA, which was created from BEEs fund •Name of Website which is separately maintain for EE/EC activity by SDA on other official website of State/UT administration •Whether any other database created by SDA for EE/EC activities? If yes, provide details thereof.				
i)	<b>DSM activities</b>	•Agriculture DSM Program: Status of activities undertaken under AgDSM •Municipal DSM Program: Status of activities undertaken under MuDSM •Energy Efficiency in SME's: Topic of Workshop, Target Audience, Participating stakeholders •Whether DSM regulation been notified by the State? •Whether any Govt. Order / Notifications issued related to AgDSM, MuDSM & other DSM related activities by State.				
j)	<b>Building Energy Efficiency Programme</b>	•Whether ECBC Code notified as per 2007 version? •Whether ECBC Code and Rules amended as per 2017 version? Please provide current status on the same. •Whether ECBC Code and Rules notified as per 2017 version? Please provide current status on the same. •Whether notified ECBC incorporated in building bylaws of any ULB? If yes, provide name of these ULBs. •Whether any building identified to make it ECBC compliant? If yes, provide name of these buildings. <b>ECBC Cell</b> : Name of agency providing manpower support to ECBC cell established for your state. Also provide names of employees working in ECBC Cell alongwith their monthly remuneration.				



k)	NMEEE / EEFP	•Total no. of DCs in your State (Sectorwise list of DCs should be enclosed)				
		•Subject wise total no of workshops organised by SDA for DCs during FY 2017-18 and FY 2018-19				
		•Subject wise total no of workshops further planned by SDA for DCs during FY 2018-19				
		•Subject wise total no of Workshops conducted by SDA for Financial Institutions under EEFP during FY 2017-18 and FY 2018-19				
		•Subject wise total no of Workshops further planned by SDA for Financial Institutions under EEFP during FY:2018-19				
<b>Activities</b>			<b>FY 2017-18</b>	<b>FY 2018-19</b>	<b>FY 2019-20</b>	<b>Reasons for delay if any :</b>
l)	<b>School/General awarness program</b>	No. of Energy clubs formed in schools situated in your state				
		No. of awareness workshops in each school (list enclosed)				
m)	<b>Any other EE/EC activities</b>					
n)	<b>SECF-</b> status of projects undertaken from SECF on RIF basis, alongwith project cost, methodology of SECF recovery and status of recoupment of SECF utilized (status is required from the time of constitution of SECF)					
<b>PART C: What are the other innovative measures taken by the SDA?</b>						
<b>PART D: What measures are proposed to be taken by SDA in future?</b>						
<b>PART E: What kind of support is required from BEE to expedite the pending activities?</b>						
<b>PART F: Any other issues faced by SDA.</b>						



## Review of Physical/Financial Progress



## National Conclave <<Location>>

**Review of Physical / Financial Progress**  
Name of the State



### Financial Status

S. N.	Programmes of BEE	Current Unspent Balance as per AAP for FY (Rs. In Lakhs)	Committed liabilities to be spent by Month, Year (Rs. In Lakhs)	Net Unspent Balance for FY (Rs. In Lakhs)	Additional fund requested for FY (Rs. In Lakhs)	Fund approved as per AAP for FY (Rs. In Lakhs)
		(a)	(b)	(a-b)		
1	SDA activities under SDA Strengthening scheme					
2	Building Energy Efficiency Programme - ECBC					
3	AgDSM					
4	MuDSM					
5	Energy Efficiency in SMEs					
6	Industrial Energy Efficiency / Perform, Achieve & Trade					
7	Awareness / Outreach Program					
8	School Awareness Programme / School Capacity Building Programme - Energy Clubs					
9	Financing for Energy Efficiency - EEFP and others					
10	Human Resource Development (HRD)					
	<b>Total</b>					





## Status on ongoing EE/EC Activities

(Funded by BEE)

Sl. N.	Name of the Activity	Name of the Project	Project Cost	Status
1	<b>State Partnership for Energy Efficiency Demonstrations (SPEED)</b>	Area: Activities:		Agency has been engaged , YES/NO: ----- If YES, Name of the Agency: ----- Value of work awarded: ----- Timeline for Completion: -----
2	<b>Energy Efficiency Programs in Schools</b>	No. of Schools: Activities: ( <i>School Names in Annexure</i> )		Agency has been engaged , YES/NO: ----- If YES, Name of the Agency: ----- Value of work awarded: ----- Timeline for Completion: -----



## Status on ongoing EE/EC Activities

(Funded by BEE)

Sl. N.	Name of the Activity	Name of the Project	Project Cost	Status
3	<b>Model Energy Efficient Village Campaign</b>	No. of villages: Activities: ( <i>Name, block, district, etc. in Annexure</i> )		Agency has been engaged , YES/NO: ----- If YES, Name of the Agency: ----- Value of work awarded: ----- Timeline for Completion: -----
4	<b>Workshops / Capacity Building of energy professionals</b>	Area: Target Group:		Total no. of workshops/programs completed so far: a) National workshops under BEE guidance: ----- b) Local workshops by SDA: -----  No. of Programs planned till Upcoming Financial Year: -----





### Status on ongoing EE/EC Activities (Funded by BEE)

Sl. N.	Name of the Activity	Name of the Project	Project Cost	Status
5	State Energy Efficiency Research & Outreach Program	Outreach activities:		Name of the agency hired: ----- Value of work awarded: -----
6	Institutionalization of Enforcement machinery at state level			Inspecting Officer (IO) appointed by the SDA YES/NO:-----  Activities Initiated for PAT and S&L Enforcement: 1. 2. 3.



### Status on ongoing EE/EC Activities (Funded by BEE)

Sl. N.	Name of the Activity	Name of the Project	Project Cost	Status
7	DSM Programs in Agriculture sector	Area: Activities: • Location- Village/ District		Agency has been engaged , YES/NO: ----- If YES, Name of the Agency: ----- Value of work awarded: ----- Timeline for Completion: -----
8	DSM Programs in Municipality sector	Area: Activities: • Name of the Municipality		Agency has been engaged , YES/NO: ----- If YES, Name of the Agency: ----- Value of work awarded: ----- Timeline for Completion: -----





## Status on ongoing EE/EC Activities (Funded by BEE)

Sl. N.	Name of the Activity	Status
9	<b>ECBC Implementation</b>	ECBC-2017 notified YES/NO:----- Date of notification:----- If No, what is the timeline for ECBC notification/Exact Status of the draft notification:----- ----- Incorporation in Building by laws, YES/NO:----- No. of buildings covered under ECBC:----- No. of Steering Committee meetings:----- No. of workshops for stakeholders:-----
10	<b>Status on School /General Awareness</b>	No. of energy Clubs constituted:----- Agency engaged, YES/NO:----- If YES, Name of the Agency:----- Awareness activities undertaken in schools in FY :----- ----- -----



## Status on ongoing EE/EC Activities (Funded by BEE)

Sl. N.	Name of the Activity	Activities undertaken
11	<b>PAT under NMEEE</b> • Workshops/ Capacity Building • M&V • Enforcement • Any other	
12	<b>EE Financing- EEFPP and others</b> • Workshops/ Capacity Building • Any other	
13	<b>Standards &amp; Labelling Program</b> • Retailers' Training • Any other	





## ACTIVITIES UNDERTAKEN under STATE ENERGY CONSERVATION FUND

Total Funds available under SECF scheme :

Matching Contribution provided by State Government :

Other source of fund: State Plan Fund:

S.No	Activities Undertaken in FY	Funds utilized (Rs. In Lakhs)	Mode of utilization RIF/Grant in aid



## Status of ongoing EC/EE activities undertaken from State Govt.'s Budget

Sl. No.	Project Name / Activities	Status





### Contact details of the CEO and officers concerned

Sl. No	Name of the employee	Status Permanent/ Contractual	Designation	Contact details



### Status of Manpower Support

Sl. No	Under the Scheme	Name	Designation	Contact details	Monthly Remuneration (Rs.)
1	SDA Manpower Support	1.			
		2.			
		3.			
		4.			
		5.			
		6.			
2	ECBC Cell	1.			
		2.			
		3.			
		4.			





## ISSUES/ Suggestions to be Highlighted

Sl.No	Issues	Suggestions/ Solutions offered



## Utilization Certificate Format

**GFR 12 – C**

[(See Rule 239)]

**FORM OF UTILIZATION CERTIFICATE (FOR STATE GOVERNMENTS)**  
**(Where expenditure incurred by Govt. bodies only)**

Sl. No.	Letter No. and date	Amount	Certified that out of Rs.....Of grants sanctioned during the year.....in favour of .....under the Ministry/Department Letter No. given in the margin and Rs.....on account of unspent balance of the previous year, a sum of Rs.....has been utilized for the propose of .....for which it was sanctioned and that the balance of Rs.....remaining unutilized at the end of the year has been surrendered to Government (vide No. ....dated.....)/will be adjusted towards the grants payable during the next year.....
	Total		

2. Certified that I have satisfied myself that the conditions on which the grants-in-aid was sanctioned have been duly fulfilled/ are being fulfilled and that I have exercised the following checks to see that the money was actually utilized for the propose for which it was sanctioned.

## Kinds of checks exercised

- 1.
- 2.
- 3.
- 4.
- 5.

Signature.....

Designation.....

Date.....

**PS:** The UC shall disclose separately the actual expenditure incurred and loans and advances given to suppliers of stores and assets, to construction agencies and like in accordance with scheme guidelines and in furtherance to the scheme objectives, which do not constitute expenditure at the stage. These shall be treated as utilized grants but allowed to be carried forward.



## Energy Saving Format

Name of SDA							
Assessment Year							
S.N.	Name of Schemes	Name of Projects undertaken	Area	Total Energy Savings in (ToE)	Total Energy Savings in (BU)	Total Reduction in CO2 Emission in (MT)	Total Monetary Savings (INR.)
From BEE's Fund							
From State Government Fund							



## Contact Details of SDAs

S. No.	State	Name of the SDA	Address of SDA	Contact Details
1	Andaman and Nicobar Islands	Electricity Department, Andaman and Nicobar Islands	Superintending Engineer Andaman & Nicobar SDA Office of Executive Engineer, NRSE Division (Behind Ganesh Temple) Electricity Department Pratrapur Port Blair – 744105.	Telephone: 0866 – 2577620  Email Id: seed@and.nic.in, seelectricity@yahoo.com, eenrse@gmail.com
2	Andhra Pradesh	Andhra Pradesh State Energy Conservation Mission	Chief Executive Officer State Energy Conservation Mission (SECM) 2 <sup>nd</sup> Floor, 33/11 kV Indoor Substation, Museum Road, Governerpet, Vijayawada – 520 002, Andhra Pradesh.	Telephone: 0866 – 2577620  Email Id: ceo.secm@gmail.com md.apseedco@gmail.com
3	Arunachal Pradesh	Arunachal Pradesh Energy Development Agency	Director Arunachal Pradesh Renewable Energy Development Agency Urja Bhawan, Post Box-124 Tadar Tang Marg, VIP Road Niti Vihar, Itanagar – 791 111.	Telephone: 0360 – 2211160  Email Id: apeda79@yahoo.com
4	Assam	Assam State Designated Agency	Chief Electrical Inspector–cum–Adviser, Government of Assam 1 <sup>st</sup> Floor, West End Block, Housefed Complex, Basistha Road, Dispur, Guwahati – 781 003, Assam.	Telephone: 0361 – 2224711  Email Id: assam.sda@gmail.com
5	Bihar	Bihar Renewable Energy Development Agency	Director Bihar Renewable Energy Development Agency (BREDA), 2 <sup>nd</sup> Floor, Vidhyut Bhawan-II, Bailey Road, Patna – 800001.	Telephone: 0612 – 2507734  Email Id: breda@breda.in
6	Chandigarh	Chandigarh Electricity Department	SE (Electrical) Electrical Circle, Room No. 523, 5 <sup>th</sup> Floor, Deluxe Building, U.T Sectt. Sector 9-D, Chandigarh – 160 009.	Telephone: 0172 – 2740193  Email Id: eeut01@gmail.com
7	Chhattisgarh	Chhattisgarh State Renewable Energy Development Agency	Chief Executive Officer Chhattisgarh State Renewable Energy Development Agency (CREDA) VIP Road (Airport Road), Near Energy Education Park, Raipur – 492 015, Chhattisgarh.	Telephone: 0771 – 2574200  Email Id: contact.creda@gov.in
8	Dadra and Nagar Haveli	Dadra Nagar Haveli Power Distribution Company Limited	Assistant Engineer (Commercial), Dadra Nagar Haveli Power Distribution Corporation Limited, Vidyut Bhavan, Near Secretariat, 66KV Road, Amlī, Silvassa – 396230.	Telephone: 09925211476  Email Id: rbchaubal@gmail.com
9	Daman and Diu	Daman Electricity Department	Chief Executive Officer Electricity Department, 4 <sup>th</sup> Floor, Vidyut Bhavan, Near 66/11 KV Kachigam Sub-Station, Somnath - Kachigam Road, Kachigam – 396 210, Daman.	Telephone: 0260 – 2408809  Email Id: elec-dmn-dd@nic.in
10	Gujarat	Gujarat Energy	Director Gujarat Energy Development Agency	Telephone: 079 – 23257256



S. No.	State	Name of the SDA	Address of SDA	Contact Details
		Development Agency	(GEDA) 4 <sup>th</sup> floor, Block No. 11 & 12, Udyog Bhavan, Sector-11, Gandhinagar – 382017, Gujarat.	Email Id: director@geda.org.in
11	Goa	Goa Electricity Department	Chief Electrical Engineer Electricity Department, Government of Goa 2 <sup>nd</sup> floor, Vidyut Bhawan, Panaji – 403001, Goa.	Telephone: 0832 – 2224680  Email Id: cee-elec.goa@nic.in
12	Haryana	Haryana Renewable Energy Development Agency	Director Renewable Energy Department, Haryana & HAREDA, Akshay Urja Bhawan, Institutional Plot No.1, Sector 17, Panchkula – 134109, Haryana.	Telephone: 0172 – 2587233  Email Id: hareda@chd.nic.in
13	Himachal Pradesh	Directorate of Energy, Govt. of HP	Director Directorate of Energy (GoHP), Phase-III, Sector-VI, New Shimla, Himachal Pradesh – 171009.	Telephone: 0177 – 2673551  Email Id; ceenergy09@gmail.com
14	Jammu and Kashmir	J&K Power Development Department	Chief Engineer, Commercial and Survey Power Development Department Complex Bemina, Srinagar – 190 008, Jammu & Kashmir.	Telephone: 09419001131  Email Id: cecnsjmu@gmail.com
15	Jharkhand	Jharkhand Renewable Energy Development Agency	Director Jharkhand Renewable Energy Development Agency (JREDA) 3 <sup>rd</sup> Floor, SLDC Building, Kusai Colony, Doranda, Ranchi – 834 002, Jharkhand.	Telephone: 0651 – 2491163  Email Id: info@jreda.com
16	Karnataka	Karnataka Renewable Energy Development Limited	Managing Director Karnataka Renewable Energy Development Limited (KREDL) 39, Shanthi Gruha, Bharath Scouts & Guides Building, Palace Road, Bengaluru – 560 001, Karnataka.	Telephone: 080 – 22208109 / 22207851  Email Id: info@jreda.com kredlmd@gmail.com
17	Kerala	Energy Management Centre Kerala	Director Energy Management Centre (EMC) - Kerala, Sreekrishna Nagar, Sreekaryam, Thiruvananthapuram – 695 017, Kerala.	Telephone: 0471 – 2594922  Email Id: emck@keralaenergy.gov.in
18	Lakshadweep	Lakshadweep Electricity Department	Director Electricity Division Office Lakshadweep Electricity Department Kavaratti Island, UT of Lakshadweep – 682 555.	Telephone: 04896 – 262127  Email Id: dirleda@gov.in
19	Madhya Pradesh	Madhya Pradesh Urja Vikas Nigam Limited	Managing Director M.P. Urja Vikas Nigam Limited Urja Bhawan, Link Road No. 2, Shivaji Nagar, Bhopal – 462 016, Madhya Pradesh.	Telephone: 0755 – 2556526  Email Id: mduvnb@gmail.com
20	Maharashtra	Maharashtra Energy	Director General Maharashtra Energy Development Agency (MEDA), MHADA Commercial Complex,	Telephone: 020 – 26614393 / 4403 / 5311



S. No.	State	Name of the SDA	Address of SDA	Contact Details
		Development Agency	2 <sup>nd</sup> Floor, Opp. Tridal Nagar, Yerwada, Pune – 411 006, Maharashtra.	Email Id: dg@mahaurja.com
21	Manipur	Manipur State Power Distribution Company Limited	Managing Director Manipur State Power Distribution Company Limited (MSPDCL), 3 <sup>rd</sup> Floor, New Directorate Building (Near 2 <sup>nd</sup> M.R. Gate) Imphal-Dimapur Road, Imphal – 795 001, Manipur.	Telephone: 0385 – 2450887  Email Id: pk.laishram@gmail.com
22	Meghalaya	Meghalaya State Designated Agency	Senior Electrical Inspector Inspectorate of Electricity, Government of Meghalaya, Horse Shoe Building, Lower Lachumiere, Shillong – 793 001, Meghalaya.	Telephone: 0364 – 2500756  Email Id: sei_meg@rediffmail.com, msda-meg@nic.in
23	Mizoram	Mizoram State Designated Agency	Chief Electrical Inspector Power & Electricity Department, Electrical Inspectorate Government of Mizoram, Zuangtui, Aizawl – 796 017, Mizoram.	Telephone: 0389 – 2351170  Email Id: sdamizoram@rediffmail.com
24	Nagaland	Nagaland State Designated Agency	Chief Electrical Inspector Old Assembly Secretariat Near Old Assembly Hostel, Kohima – 797 001, Nagaland.	Telephone: 09436004252  Email Id: einspectorate@gmail.com
25	New Delhi	Energy Efficiency And Renewable Energy Management Centre	Executive Officer Energy Efficiency and Renewable Energy Management Centre 2 <sup>nd</sup> Floor, E-Block, Vikas Bhawan - II, Near GPO Building, Civil Lines, New Delhi – 110 055.	Telephone: 011 – 23815874 / 75  Email Id: akjhasundhara@gmail.com
26	Orissa	State Designated Agency, Odisha	Engineer-In-Chief (Electricity) – cum – Principal Chief Electrical Inspector State Designated Agency Odisha, Department of Energy Government of Odisha, Power House Square, Bidyut Marg, Bhubaneswar – 751 001, Odisha.	Telephone: 0674 – 2394873  Email Id: sdaorissa@nic.in
27	Punjab	Punjab Energy Development Agency	Chief Executive Punjab Energy Development Agency (PEDA) Solar Passive Complex, Plot No. 1-2, Sector 33-D, Chandigarh (U.T.) – 160 034.	Telephone: 0172 – 2663392  Email Id: peda_spa@yahoo.co.in, peda.ec@gmail.com
28	Puducherry	Renewable Energy Agency Puducherry	Managing Director, Renewable Energy Agency Puducherry (REAP) Bungalow No.2, AFT Premises, Cuddalore Main Road, Mudaliarpur, Puducherry-605004.	Telephone: 0413 – 2203041  Email Id: mdreappondy@gmail.com
29	Rajasthan	Rajasthan Renewable	Managing Director Rajasthan Renewable Energy Corporation	Telephone: 0141 – 2229055 / 2221650



S. No.	State	Name of the SDA	Address of SDA	Contact Details
		Energy Corporation Limited	Ltd (RRECL) E-166, Yudhishtir Marg, C-Scheme, Jaipur – 302 005, Rajasthan.	Email Id: rrec2016@gmail.com
30	Sikkim	Sikkim State Designated Agency	Additional Chief Engineer (IPP) cum Nodal Officer Sikkim SDA Energy & Power Department, Government of Sikkim Power Secretariat, Kazi Road, Gangtok – 737 101, Sikkim.	Telephone: 09434186356  Email Id: sdasikkim2015@gmail.com
31	Tamil Nadu	Tamil Nadu Electrical Inspectorate	Chief Electrical Inspector to Govt. of Tamil Nadu Electrical Inspectorate Department, Government of Tamil Nadu Thiru Vi.Ka. Industrial Estate, Guindy, Chennai – 600 032, Tamil Nadu.	Telephone: 044 – 2250 0915  Email Id: ceig@tn.gov.in, ceig@tn.nic.in, eitech@tn.gov.in
32	Telangana	Telangana State Renewable Energy Development Corporation Limited	Vice Chairman & Managing Director Telangana State Renewable Energy Development Corporation (TSREDCO) Ltd. D.No. 6-2-910, Visvesvaraya Bhavan, The Institution of Engineers Building, Khairatabad, Hyderabad, Telangana – 500 001.	Telephone: 040 – 23201505  Email Id: vc@tsredco.telangana.gov.in
33	Tripura	Tripura State Electricity Corporation Limited	Chairman-cum-Managing Director Tripura State Electricity Corporation Limited Bidyut Bhawan, North Banamalipur, Agartala, Tripura (West) – 799001.	Telephone: 0381 – 2228001  Email Id: cmd.tsecl@rediffmail.com, sdatripura.tsecl@gmail.com,
34	Uttarakhand	Uttarakhand Renewable Energy Development Agency	Director & Additional Secretary (Energy), GoUK Uttarakhand Renewable Energy Development Agency (URED A) Urja Park Campus, Industrial Area, Patel Nagar, Dehradun – 248 001, Uttarakhand.	Telephone: 0135 – 2521387 / 2521553  Email Id: director.uredahq@gmail.com
35	Uttar Pradesh	Uttar Pradesh New & Renewable Energy Development Agency	Director Uttar Pradesh New and Renewable Energy Development Agency (UPNEDA) Vibhuti Khand, Gomti Nagar, Lucknow – 226010, Uttar Pradesh.	Telephone: 0522 – 2720652  Email Id: dirupneda@gmail.com
36	West Bengal	West Bengal State Electricity Distribution Company Limited	Chief Engineer, Planning, Investigation & Design Department & Nodal Officer of WBSDA. Vidyut Bhavan, 5 <sup>th</sup> Floor, B-Block, Bidhannagar, Block - DJ, Sector - II, Kolkata – 700091.	Telephone: 033 – 23379673  Email Id: wbsdac@gmail.com, wbsedclhpc@gmail.com



**For any further information pertaining to Operational Guidelines for implementation of activities under the schemes on “Strengthening of State Designated Agencies to promote efficient use of energy and its conservation”, please feel free to contact concerned officials of Bureau of Energy Efficiency**

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