

**STATUS OF ACTIVITIES UNDER THE STATE ENERGY CONSERVATION FUND**  
**(SECF) AS ON 1.5.2013**

Under Section 16 of the Energy Conservation Act, 2001, the State Govt. is required to constitute a Fund for the purposes of promotion of efficient use of energy and its conservation within the State. Accordingly, the Haryana Govt. has notified the constitution of the Haryana Energy Conservation Fund vide Haryana Govt. Notification No. 22/7/2010-5 Power dated 19.2.2010.

The Fund shall be applied for:

- i) to incur expenditure through State Designated Agency for various awareness programmes for disseminating information to individual consumers, industries, commercial organizations, students, farmers etc., regarding energy conservation and efficient use of energy;
- ii) to meet the expenditure incurred by the State Designated Agency for training of personnel and specialists for efficient use of energy and its conservation;
- iii) for promotion of research and development in the field of energy conservation;
- iv) to develop testing and certification procedure, in creation of testing facilities for certification and verification testing of energy consumption of equipments and appliances;
- v) to develop and execute demonstration projects related to energy conservation, energy efficiency, renewable energy and renewable energy applications for encouragement and to contribute in the projects of Bureau, Central Government and multi/bilateral cooperation;
- vi) to promote the use of energy efficient processes for the equipments, devices and systems;
- vii) to meet the matching grant to the centrally sponsored schemes and schemes of Bureau implemented in the State;
- viii) to meet the expenses incurred by the State Designated Agency for implementing the provisions of the Act;
- ix) to meet the expenses incurred by SDA on staff for dedicated Energy Conservation cell;
- x) to promote renewable energy as demand side measures to conserve electricity;

A **State Level Steering Authority** has been set up to formulate, review and monitor the activities under the Fund. This Committee is headed by the Financial Commissioner & Principal Secretary, Renewable Energy Department, Haryana with Managing Directors of the DISCOMs and Directors of the Urban Local Bodies Department, Town and Country Planning Department, Industry and Commerce Department and Renewable Energy Department as members.

The Bureau of Energy Efficiency contributed an amount of Rs. 2.00 crore to the SECF and the State Govt. provided followings funds in the Annual Plans for the Fund:

1. 2009-10	-	Rs. 50.00 lac
2. 2010-11	-	Rs. 395.00 lac
3. 2011-12	-	Rs. 406.55 lac
4. 2012-13	-	Rs. 50.00 lac

In addition to this, the BEE has also provided a corpus of Rs. 2.00 crore which has been earmarked as “Revolving Fund” and a scheme for the same has been formulated. The Financial Assistance (FA) will be for industries, institutions, municipal and commercial buildings for implementation of the energy audit report for achieving higher energy efficiency. The FA in the form of loan will be on 0% interest rate against bank guarantee equivalent to 1.25 times of the assistance valid for 3.5 years. The financial assistance will be limited to 75% of the cost or Rs. 20.00 lac, whichever is less, of the cost of implementation of the recommendations of the bankable energy audit report, prepared by BEE certified energy auditor/ energy managers. State Govt. Departments/ Agencies are exempt from submission of Bank Guarantee, however, they will be required to furnish an undertaking signed by the competent authority to repay the loan amount as per the scheme . The FA is to be utilized in 9 month's time and is recoverable in 5 equal installments, first after 1 year and the remaining in six monthly installments. Details of various activities under the SECF.

Brief description of activities under the SECF and their status is as under:

S. No	Activity 2009-10, 2010-11	Target		Status/Achievement	
		No. of event	Outlay (Rs. In lac)	Exp.	
A.	<b>BEE Funded activities</b>				
	<b>Energy Conservation in SME clusters</b>				
1	a. Interaction Meets to identify willing and potential industrial/commercial units in four of the six SME clusters namely, Faridabad, Gurgaon, Rewari, Panipat and Karnal.	4	3.00	2.235	Interactive meet at Faridabad, Karnal, Gurgaon and Rewari organized.
	b. Walk Through Energy Audit(WTEA) of 40 identified units of Faridabad, Gurgaon, Karnal, Rewari and Panipat industrial clusters @ approximately Rs.0.15 lac per audit	200	20.18	17.70	Out of 200 sanctioned WTEA, report of 179 industries of Faridabad, Gurgaon, Rewari and Panipat has been received and analysed.
	c. Analysis of WTEA Reports and discussion with the Industry/stake holders through workshop in each of the four clusters and Selection of thirty best industries/ commercial establishments for Detailed Energy Audit on the basis of their response, scope of energy efficiency gains, expert recommendations, willingness and participation	4	3.07	1.506	Analysis of WTEA reports of Faridabad, Gurgaon, Rewari and Panipat district has been completed. These industries have energy saving potential of 51.79 MU annually with an investment of Rs. 51.66 crore.

	d. Detailed Energy Audit of industries/commercial establishments with 75:25 cost sharing and developing them as demonstration projects.(Max. Rs. 1.50 lac)	30	43.75	39.50	Initially, sanction of financial assistance of Rs.28.00 lakhs has been given to 25 industries of Faridabad, Gurgaon & Rewari. These industries have saving potential of 7.4 MU annually with an investment of Rs. 3.5 crore with an average payback period of about 1 year. During 2012-13, sanction for 9 industries of Panipat & 5 rice mills of Karnal has been given.
	e. Demonstration of new energy efficient technologies like magnetic induction arc, LED etc for lighting, automatic PF controller, Vapor absorption chilling system, tri-generation etc.	Lump Sum	15.00	15.00	94 LED based Street Lighting of 120 W each installed as Demo Project at Sheetla Mata Mandir, Gurgaon @ a cost of Rs.11.84 lac in Nov.,2011& the balance amount has been utilized for providing 435 nos. 10 W /18 W LED street lighting in Shree Mata Mansa Devi Shrine Board, Pkl.
	f.Establishment of demonstration projects on waste heat recovery, Recuperators, Economizers, Automatic voltage regulators, Power capacitors etc. with 75:25 cost sharing (max. Rs. 7.50 lac)	8	60.00	0	Identification of suitable industrial units in process out of the units with detailed audit & viable waste heat recovery industries as conducted by EESL and others. Till date 5 industries have given their consent for taking up demonstration projects.
	g. Preparation of demonstration manual based on success stories of the demonstration project.	1	2.00	0	To be done after carrying out demonstration projects
	h. Sectoral demonstration workshops	4	2.00	0	To be done after carrying out demonstration projects
2	<b>Energy Audit</b>		0	0	
	a. Incentive to the industries for detailed energy audit on 50:50 cost sharing basis limited to Rs.0.50 lac who will like to go for energy efficient measures based on demo projects results linked with implementation of energy audit reports.	10	5.00	2.0	Sanction of financial assistance of Rs.4.00 lakhs for detailed energy audit of 4 milk plants i.e. Ballabgarh, Rohtak, Sirsa & Jind, 2 textile industries of Gurgaon and one rice mill of Karnal was issued against which only 4 milk plants have submitted the reports. The milk plants have energy saving potential of 7.96 lac units annually with an investment of Rs. 49.0 lac with an average payback period of about 6 months.
	b. Detailed Energy Audit of two Coal Based Haryana Power Generation Units at Hisar and Yamunanagar on 50-50 cost sharing basis.	2	10	0	Energy audit of unit-7 & 8 of the PTPS, Panipat has been completed by the Genco but is awaited and the energy audit of unit- 1 & 2 of the DCRTPP, Yamuna Nagar is proposed to be conducted after their revival as they are under forced shutdown condition at present.

3	<b>Demo projects</b>		0	0	
	Demonstration project for implementation of energy audit report in Ambala Municipal Water Pumping Station	1	8.00	8.00	Funds have been transferred to Public Health Engineering Department for implementation for Energy Audit Report.
4	<b>Capacity Building</b>		0	0	
	a. Training programme for Power Station Engineers ( 2 day -50 participants)	1	2.00	2.00	Training on energy conservation in thermal power station for Power station Engineers of Panipat, Yamunanagar and Hisar was organized on 23-24 <sup>th</sup> Feb,2011at NPTI(North Region), Badarpur.
	b. Training programme for process utilities having boiler/furnace & compressor processes.	1	2.00	0	To be organised
	c. Workshop/Training Programme for engineers / architects on ECBC	1	3.00	3.00	Training on ECBC to Engineers/Architects has been successfully organized on 16-17 <sup>th</sup> Feb, 2011 at Faridabad through TERI.
5	Engaging consultant(s) for Annual Energy Conservation Plan for industrial sector and Waste Heat Recovery Policy and preparation of 20 DPRs.	Lump Sum	21.00	20.896	EESL has submitted the Waste Heat Recovery Policy & DPRs of 20 industries. There is a potential of saving of about 80,000 million kilo calorie per hour which can be a tapped with an investment of Rs. 1025 lac resulting in annual saving of Rs. 255.00 lac with simple payback period of 4.8 months.
				<b>111.83</b>	
<b>B</b>	<b>State Funded activities 2009-10</b>				
1	Energy Conservation Awards for Industries, Govt. buildings, Educational Institutions and Commercial Establishments etc.	Lump Sum	15.00	15.00	Energy Conservation Awardees for Large scale Industries, Small scale Industries, Educational Institutions and Govt./Semi Govt buildings and Commercial Establishments for the year 2009-10 have been finalized & distributed
2	Gram Panchayat Awards for RE & EC	L/S	10.00	10.00	Awards for 2009-10 have been distributed.
3	DSM through Renewable Energy – a) Providing 50 no. SPV pumps of 5 kw for agriculture/ horticulture/ drinking water purpose Cost Rs.8.50 Lac, state Rs.50,000. GOI Rs.2.55 lac, User Rs.5,95,000	50	25.00	0	It is proposed to install Solar Water Pumping Systems of 2.0 HP surface type with 1800 watt solar array (40 Nos) and 4.6 HP submersible type with 4800 Watt solar array (35 Nos) to promote 75 solar water Pumps with total solar array capacity of 240 KW at a total project cost of Rs. 401.00 lac. A scheme for providing matching state subsidy @Rs. 85,500/- for a 2 HP Pump and @Rs. 2.46 lac for a 4.6 HP pump has been formulated and the MNRE has approved the same for installation of 75 SPV Pumps (clubbed with 2010-11 and 2011-12 funds). Rates finalized and systems are under installation.

	Total		50.00	25.00	
	Grand Total		250.0	136.83	
<b>C</b>	<b>State Funded activities 2010-11</b>				
1.	Energy Conservation Day/ Awareness/Awards.	15.0	15.00	EC Day was celebrated through District Offices and every district was given an amount of Rs. 50,000/- each for the same.	
2.	Gram Panchayat Awards.	17.50	00	This amount was not required as expenditure was met from the budget allocation under the scheme. This amount is being carried forward to 2011-12.	
3.	DSM through Renewable Energy – a) Providing 100 no. SPV pumps of 5 kw for agriculture/horticulture/drinking water purpose Cost Rs8.50 Lac, state Rs.50,000. GOI Rs.2.55 lac, User Rs.5,45,000.	50.0	00	Solar Water Pumping Systems of 2.0 HP surface type with 1800 watt solar array (40 Nos) and 4.6 HP submersible type with 4800 Watt solar array (35 Nos) to be installed with total solar array capacity of 240 KW at a total project cost of Rs. 401.00 lac. This cost is proposed to be shared among MNRE GOI, State govt. and Users on 30: 30: 40 basis respectively. The MNRE, GoI has approved the scheme. Rates finalized and systems under installation.	
	b) Solar Small Power Pack for Domestic/Commercial Use (225 W). Approx. cost Rs.48000/-, State subsidy Rs.14400/-, Govt. of India subsidy Rs.14400/-, User share Rs.19200/-	12.50	00	Tenders have been floated by Municipal Corporation, Faridabad for installation of solar inverters in Faridabad solar city out of funds of Rs. 12.50 lac.	
4.	Implementation of Shikshadeep scheme for meritorious Rural Girl Students who stand 1st in the 5th, 8th, 10th and 12th classes.	300.0	38.99	The Shikshadeep scheme has been discontinued and the <b>balance funds (Rs. 261.00 lac) have been diverted</b> for the scheme on solar off-grid applications in Govt. sector.	
	<b>Total</b>	<b>395</b>	<b>53.99</b>	<b>Rs. 261.00 lac diverted</b>	
<b>D</b>	<b>State Funded activities 2011-12</b>	<b>Outlay</b>	<b>Exp.</b>	<b>Remarks</b>	
1.	Energy Conservation in Agriculture pump sets for replacement of 210 agriculture pump sets in Mohanpur Feeder of Kurukshetra district at a cost of approx. Rs. 1.25 crore. An amount of Rs. 25.00 lac from the SECF 2011-12 has been earmarked for the purpose.	25.00	0	UHBVN is implementing the scheme. Tenders being invited again as earlier no manufacturers submitted bids. Now dealers are eligible to quote.	
2.	Energy Audit in Govt. buildings, institutions, commercial buildings & industries on 50:50 cost sharing basis with financial assistance limited to Rs. 50,000/- per audit. An amount of Rs. 1.00 lac from the SECF 2011-12 has been earmarked for the purpose.	1.00	0	Under the scheme, owners of the buildings shall be provided financial assistance @ <b>50% of the investment grade energy audit cost with maximum limit of Rs. 50,000/-</b> provided, they undertake to implement the energy audit report.	
3.	Shikshadeep scheme for providing solar lanterns, free of cost, to those girl students of Govt. rural schools who have topped in their classes in 5 <sup>th</sup> ,	265.10	0	The <b>Shikshadeep scheme has been discontinued</b> and the funds earmarked for the scheme have been re-allocated for a new scheme on Solar Off-grid Applications in Govt. sector after approval of the State Govt. Under the	

	8 <sup>th</sup> , 10 <sup>th</sup> & 12 <sup>th</sup> class examinations in their schools. An amount of Rs. 286.10 lac from the SECF 2011-12 has been earmarked for the purpose.			scheme, State subsidy of 40% will be provided in addition to the MNRE, GOI subsidy of 30% of installation of Solar Power Plants of capacity upto 100 KW, centralized solar power plants of capacity 5 KW to 100 KW for LED Street Lighting and stand alone LED based solar street lights in Faridabad Solar City. The scheme has been launched with a budget provision of Rs. 9.74 crore out of which an amount of Rs. 5.26 crore has been diverted from the SECF 2011-12 and 2010-11.
4.	Energy efficiency in demonstration project for installation of occupancy sensors at Haryana Civil Secretariat, Sector-17, Chandigarh / Demonstration project on installation of LED Street Lights at Brahm Srovar, Kurukshetra. An amount of Rs. 10.00 lac from the SECF 2011-12 has been earmarked for the purpose.	10.00	0	This amount is being utilized for demonstration project of LED street lights at Brahamsrovar, Kurukshetra.
5.	Awareness campaign on energy conservation through electronic and print media and for preparation of annual year book. An amount of Rs. 5.00 lac from the SECF 2011-12 has been earmarked for the purpose.	15.00	4.30	An amount of Rs. 4,30,250/- diverted for demo project of indoor LED lighting at Shree Mata Mansa Devi Shrine Board, Pkl, under execution. 200 nos. of LED lamp, 10 watt LED lam & 235 nos of 18 watt LED tube lights have been installed under the project. Balance amount is being utilized for preparation of publicity material.
6.	EC Awards 2010-11/2011-12 and State Level Energy Conservation Day. An amount of Rs. 10.00 lac from the SECF 2011-12 has been earmarked for the purpose.	21.00	0	For 2011, applications have been invited through press advertisement in August, 2012. This year, four new categories of Educational Institutions (vocational/ colleges), Municipal Committees/Municipal Corporations, Hospitals (Private/ Charitable) and Govt. Hospitals have been added. The last date for receiving the application is 23 <sup>rd</sup> December, 2012. For the year 2010-11, 79 applications were received and the awards have been finalized. An amount of Rs. 11.00 lac will be utilized for giving the awards. For 2011-12, 36 applications have been received so far and are under evaluation.
7.	<b>Solar Pumps Programme:</b> A scheme for providing matching state subsidy @Rs. 85,500/- for a 2 HP Pump and @Rs. 2.46 lac for a 4.6 HP pump has been formulated and the MNRE has approved the same for installation of 75 SPV Pumps. An amount of Rs. 50.00 lac from the SECF 2011-12 has been earmarked for the purpose.	50.00	0	75 SPV pumps are under installation.
8.	Solar street lighting programme : An amount of approx. Rs. 36.95 lac is required for solar street lighting	36.95	36.95	923 solar street lights installed in the state with state assistance of Rs. 36.95 lac (@Rs. 4000/- each) from the SECF.

	programme			
	<b>Total</b>	<b>424.05</b>	<b>41.25</b>	
<b>E</b>	<b>State Funded activities 2012-13</b>	<b>Outlay</b>	<b>Exp.</b>	<b>Remarks</b>
	<b>Solar Pumps Programme:</b> A scheme for providing matching state subsidy @Rs. 85,500/- for a 2 HP Pump and @Rs. 2.46 lac for a 4.6 HP pump has been formulated and the MNRE has approved the same for installation of 75 SPV Pumps. An amount of Rs. 50.00 lac from the SECF 2011-12 has been earmarked for the purpose.	<b>50.00</b>	<b>0</b>	Systems under installation.
	<b>Total</b>	<b>50.00</b>		