



# Smart Energy Programme 2016-17





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## ENERGY CONSERVATION: The “first fuel” with large untapped potential.

**A**s energy conservation continues to gain attention as a key resource for economic and social development across all economies, understanding its real value is increasingly important. Energy conservation is taking its place as a major energy resource in the context of national and international efforts to achieve sustainability targets. This reflects a paradigm shift that is beginning to give credence to actions on both the supply and the demand side in the quest to achieve economic growth while supporting energy security, competitiveness and environmental sustainability. In effect, attention to energy conservation has begun to evolve, progressing from the lack of visibility inherent in its identification as “the hidden fuel” to an increasing recognition of its role as the “first fuel”.

The economic development of a country is often closely linked to its consumption of energy. Although India ranks sixth in the world as far as total energy consumption is concerned, it still needs much more energy to keep pace with its development objectives. The increasing demand for power has led to considerable fossil fuels burning which has in turn had an adverse impact on environment. In this context, efficient use of energy and its conservation is of paramount importance. It has been estimated that nearly 25,000 MW can be saved by implementing end-use energy efficiency and demand side management measures throughout India. Efficient use of energy and its conservation assumes even greater importance in view of the fact that creation of new power generation capacity is costly and necessitates long gestation period whereas energy efficiency activities can make available additional power at comparatively low investments within a short period of time.

The terms energy conservation and energy efficiency have two distinct definitions. At the most basic level, energy conservation means using less energy and is usually a behavioural change, like turning your lights off. Energy efficiency, however, means using energy more effectively, and is often a technological change. Energy efficiency measures the difference between how much energy is used to provide the same level of comfort, performance or convenience by the same type of product, building or vehicle.

Simple changes in people's behavior can quickly lead to significant energy savings, but such changes will only happen if the people are aware of the energy consumption that they have the power to control. Energy conservation avoids wasteful use of energy without much investment. It can be termed as a new source of energy, which when available, can be readily used without any further loss or gestation period. In

fact, it is the easiest solution to bridge the gap between demand and supply.

The energy education of young people, especially school children is a vital and strategic component of bringing about long-term change in their behavior towards a smart and efficient use of energy resources. The whole school approach recognises that schools are uniquely placed to take advantage of the strong links between staff, pupils, parents and the wider community. The potential for improvement of energy efficiency through awareness creation is vast. A sound policy for creation and retention of skills of human resources is very crucial for penetration of energy efficient practices in various sectors. The end user-general public and students also need to be provided with up to date information access and training modules for seamless integration of energy efficiency initiative with present practices and processes.



## Smart Energy Programme

EMC is a state designated agency for implementing the provisions of EC Act 2001. EMC since its inception has been actively involved in organizing different types of awareness programs on energy conservation for the students of educational institutions. The school energy conservation club of EMC aims at awareness creation among students on energy conservation and environment friendly energy technologies as this would help in inculcating a habit in the younger generation on the judicious use of the scarce and depleting energy resources. As a part of our efforts to modify the programme for better outreach we have started a new programme titled Smart Energy Program (SEP). Smart Energy Program is one of the flagship projects of EMC, which was formed to spark off an initiative for curbing energy wastage through active measures and also popularizing the importance of energy conservation and energy efficiency measures among students.

# PROPOSED PROGRAMMES FOR THE YEAR 2016-17

## School level

- At least 150 schools in each education district should enroll to SEP. Schools including UP, High school (Govt, Aided, Unaided, CBSE and ICSE) may be enrolled. Each school must enroll minimum fifty students to SEP. Enrolment form should be in the prescribed format given by EMC and enrolment made through Joint Coordinator of respective educational district, where the school is located. Enrolment should be done before July 30<sup>th</sup>.
- Each school should make a committee of SEP including school principal/headmaster, PTA President, student representative and SEP School Coordinator as the convener.

Each School should conduct the following competitions and nominate the winners for educational district level.

1. Project presentation
2. Essay
3. Cartoon
4. Painting

*Details about the competition, refer page nos (9 -12).*

- Each member school should conduct a lecture on energy conservation and energy efficiency. Resource support can be obtained from Joint Coordinators.
- For conducting energy conservation lecture in schools EMC will provide resource support. The honorarium and TA for the EMC empanelled resource person will be paid by EMC.
- Each member school will receive a SEP membership display board.
- The list of member students in the SEP of the school should be submitted to EMC along with enrolment form through joint coordinator. The list should contain details such as Name, Standard & Division.
- EMC will issue certificate for all the member student of SEP.
- 12 schools selected from each educational district will be converted into Energy Efficient schools. Each energy efficient schools will receive
  1. Five star rated ceiling fan (5 Nos)
  2. 18W LED tube (5 Nos)
  3. 9W LED Bulb (5Nos)
  4. 25W LED Street light wall mount (1Nos)

## Educational district level

- A committee must be formed in each education district for the well functioning of the programme. Members may include DEO, Assistant Education officers under ED, Headmaster/Headmistress's, DC and with JC SEP as convener of the committee.
- The joint coordinators in consultation with the DEO and district coordinator should organise a Teachers training campaign on SEP in each education district in order to discuss the "Energy Conservation Awareness Programme", SEP and its effective implementation. It should be completed before June 20<sup>th</sup>.
- Each Educational district should conduct the following competitions:
  1. Project presentation
  2. Essay
  3. Cartoon
  4. Painting

The program will be titled as "Oorjolsavam". In project presentation only one project from each school is permitted. For other competitions (Essay, Cartoon and painting competitions) only 1 student from each school is permitted. The Project competition team can be represented by not more than 2 students per team. Five students and two teachers will be eligible for travel allowance. 2 teachers who don't represent contesting school will be eligible for travel allowance. 1<sup>st</sup>, 2<sup>nd</sup> & 3<sup>rd</sup> prize winners of cartoon, painting & essays competitions from each educational district should present the same in front of the audience.

Under the revenue district the judging panel will be same for all educational districts. District coordinators should select the 1<sup>st</sup>, 2<sup>nd</sup> & 3<sup>rd</sup> prize winners from the each educational district for the Revenue District level. Minimum 50 schools should participate the programme. An official from EMC will attend the programme as observer. 1<sup>st</sup> prize winners from the each Revenue district can only participate in the Kerala State Students' Energy Congress (KSSEC) which will be conducted in the last week of January 2017. Educational District level project competition should be completed before one week from November 14<sup>th</sup>.

## Revenue district level

On December 14<sup>th</sup> - National Energy Conservation Day (NECD), all districts should conduct a district level general awareness program for public either in schools

or in other appropriate venues. The programme should be conducted in presence of elected representatives of the government/local body such as MLA/District Panchayat President/ Mayor etc.

- In addition to NECD, if the district committees decide to conduct an exhibition for the public and students with the help of KSEB, ANERT, Engineering colleges and other technical institutions, EMC will ensure its support.
- For the conduct of this programme each district coordinator will get Rs. 10000/- Minimum participation of the programme is 100 people (not including the student management).
- In addition to the NECD programme the District coordinators may organize energy conservation awareness programme for residents' associations. EMC will provide a financial assistance @ of Rs 75/ participant. A prior approval for the programme shall be taken with a proposal for the same.

## State level

- In order to evaluate the State level activities of SEP, state level monitory committee will be formed which consists of a nominee from DPI, two nominee from EMC, three DC (from three regions) and a member from the EMC will be the convener.
- In the month of January 2017 EMC will conduct an all Kerala program titled "Kerala State Students' Energy Congress" (KSSEC). This will be a one day programme consisting of discussion on various energy issues such as the importance of energy conservation, energy efficiency and sustainable energy by experts and eminent personalities; and different competitions (Project, Essay, Cartoon, and painting competitions) of winners from each Revenue District. TA for the participating team will be given according to the following formula.
- TA for the participating team =  $(SBF \times TM + 200)$ . TA for the district coordinator will be  $(SBF + 200)$ . For the hosting district, formula will be  $TA/team = (100 \times TM + 200)$  For the District coordinator of Hosting district TA will be Rs.250/- SBF = to and fro KSRTC super-fast bus fare from district headquarters. TM = team member consisting of five students and five guardian maximum of 10 nos.

# PROGRAMME GUIDELINES

- District Coordinator (DC) through joint coordinator (JC) should make necessary arrangements for conducting project presentation, cartoon, essay and painting competitions in their respective Revenue districts. Evaluation of the project will be done based on project report and presentation. A detailed report of the project presentation by each school should be submitted by JC through DC to EMC.

## State Level (For project Competition)

- All the teams have to prepare their presentation in advance. On the first day of the programme, forenoon session will be presentation by experts and eminent personalities on energy related topics followed by group interaction for one hour where the teams can make finer modifications in their presentation which they have already prepared.
- Presentations by the team start in the afternoon of the first day & will continue in the forenoon of the second day. Presentation will be for 13 min (8 min presentation and 5 min discussion).
- Power Point Presentation (PPT) should be sent to EMC. If it is in Malayalam you have to send in .pdf format.
- Computer, LCD Projector will be provided by EMC for the presentation.
- Weightage will be given to the following during evaluation.
  - a) Content including local specific energy related problems, locally available energy resources and most appropriate local specific solutions
  - b) Innovative ideas
  - c) Presentation skills and
  - d) Team effortAbstract or write up on the presentation (either in English or Malayalam) is optional.
- A Certificate of merit will be given to all the winners.

- State-level winners will get an opportunity to visit an industry (like a power plant, dairy or textile industry). Either a teacher or parent or Joint Coordinator can accompany each student along with District Coordinator or his nominee. All expense as per the eligibility will be borne by EMC.

## NECD-Revenue district level.

- Each district should conduct a general awareness programme on National Energy Conservation Day (14th December 2016) in the presence of people's representatives like MLA/ District Panchayat President/Mayor and EMC logo should be exhibited in the banner.
- Officers from KSEB, ANERT, Engineering Colleges etc may be invited as speaker(s) and the programme may be arranged in a school/College/Library etc to reduce the expense. Any government organisation /PSU can be invited as part of this programme and receive sponsorship amount, with intimation to EMC.
- Since this programme has to be organised on NECD, change in the date of the Programme will not be encouraged.
- The report should contain programme agenda including date time and venue of the programme, distinguished guests invited etc. A brief record of the programme should be sent to EMC either by email or by post along with photographs and feedback.

## FUNDING

Sensitisation Camp for 1 Educational district

The budget allocated for this program is  $(2500^* + 125^{**} \times \text{no of representing schools})$ .

o \*Organisational expenses o \*\*TA+refreshment.

Oorjolsavam programme for 1 Educational district

The budget allocated for this program is

$(4500^* + 2500^{**} + 180^{***} \times \text{No of participants}^{****})$

\*(Honorarium for 3 Judges)

\*\* (Organisational expenses which include mike banner etc.)

\*\*\* (TA+ food expenses)

\*\*\*\* ((5students+ 2 teacher) from each participating school +2 teachers who don't represent contesting school + 10).

## NECD

The budget allocated for this program is Rs 10000/-

### Honorarium to DC &JC:-

Each district coordinator will get an amount as per the formula  $(25 \times \text{Participation index})$ . Honorarium for joint coordinator is given as per the formula  $(Rs50 \times \text{Participation index})$ .

Participation index =  $(\text{No of School enrolled} + \text{no of school participated in Oorjolsavam} + \text{no of teachers participated in the teachers training programme})$ .

$(.25 \times \{ \text{No of School enrolled} + \text{no of teachers participated in the teachers training programme} + \text{no of school participated in Oorjolsavam} \})$

## Reimbursement of Expenses - Schedule

AMOUNT	IN RECEIPT OF
50% advance of sensitisation camp	Intimation of date and venue of the camp.
Balance payment of sensitisation camp	Submission of report of sensitisation camp with participants details, UC and expenses statement through district coordinators
1st instalment of honorarium to joint coordinators and district coordinators	Submission of enrolment form of schools and reports of sensitisation camps
50% advance of Oorjolsavam	Intimation of date and venue of the program
Balance payment of Oorjolsavam	Submission of report of Oorjolsavam with participants details, UC and expenses statement through district coordinators
75% advance of NECD Programme	Intimation of Venue of the camp with name of invited people's representative
Balance payment of NECD Programme	Submission of report of NECD with participants details, expenses statement through district coordinators
Balance honorarium for DCs &JCs	After the State level program and submission of report of SEP





## SMART ENERGY PROGRAMME (SEP) 2016 – 2017 Enrolment Form



Education District	
1 Name of School	
2. Address	
3 Phone No	
4 Email Id	
5 Whether Govt/Aided/Unaided/ Private	
6 Whether State/CBSE/ICSE	
7 Name of the Head master / Head mistress	
8 Mobile No:	Email Id:
9 Number of Students Enrolled for SEP	
10 Name of the teacher nominated as Nodal Officer	
11 Mobile No:	Email Id:

Signature of the Headmaster / Headmistress

Signature of District Coordinator

Signature of Joint Coordinator

Date:

*For Office Use*

Verified the information and approved the enrolment of the school to SEP

Verified By

Allotted School ID

## 1. DETAILS OF PROJECT COMPETITION - EDUCATIONAL DISTRICT LEVEL/ STATE LEVEL

**Deadline: October 17<sup>th</sup>**

One project from each school is allowed and a team may have maximum of two members. Each school should submit their abstract to their respective district coordinator and take approval to proceed with the project.

TOPIC/TITLE	HOME ENERGY
Objective	Study and understand the working and energy usage pattern & energy saving potential in appliance.
Scope	Any one appliance or equipment used in home
Methodology	<ul style="list-style-type: none"> <li>• Study the working principle of a domestic appliance or equipment</li> <li>• Different type and their characteristics</li> <li>• Comparison between different models/types available in the market</li> <li>• Analyse the usage pattern of the appliance and its effect on energy Consumption</li> <li>• New technological interventions</li> </ul>
Expected outcome	Energy saving opportunities (technological /behavioural ) including any other alternatives or solutions.
Presentation Time	8 minutes presentation, 5 min discussion.

### Awards

- State-level winners will get an opportunity to visit an industry (like a power plant, dairy and textile industries). Either a teacher or parent or Joint Coordinator can accompany each student along with District Coordinator or his nominee. All expense as per the eligibility will be borne by EMC.
- A Certificate of merit will be given to all the winners.
- Each student along with their accompanying one guardian will be eligible for travel allowance, lodging and food facilities.

## 2. DETAILS OF ESSAY COMPETITION - EDUCATIONAL DISTRICT LEVEL/ STATE LEVEL

**Essay Topic:**  
“Energy security”

**Eligibility Criteria**  
Participantcs must be:

- One student each from SEP enrolled schools.

### Essay Submission Guidelines

- Length of Essay: 500 words (excluding bibliography and citations).
- 1.5 hr (90 minutes) for essay writing.
- Students must produce their own work and cite sources properly and consistently.
- The essay should mention the participant’s name, School name, Educational district, and Revenue district during the evaluation phase.

The essay must be written in Malayalam / English.

### Awards

- State-level winners will get an opportunity to visit an industry (like a power plant, dairy or textile industry). Either a teacher or parent or Joint Coordinator can accompany each student along with District Coordinator or his nominee. All expense as per the eligibility will be borne by EMC.
- A Certificate of merit will be given to all the winners.
- Each student along with their accompanying one guardian will be eligible for travel allowance, lodging and food facilities.

### 3. DETAILS OF CARTOON COMPETITION - Educational District level / State level

**Cartoon Theme:** Life style change & energy use

#### Eligibility Criteria

Participants must be:

- One student each from SEP enrolled schools.

#### Cartoon Submission Guidelines

- Paper size: A4 (210 X 297 mm) or A3 (297 X 410 mm) and Letter (216 × 279 mm)
- 1.5 hr (90 minutes) for Cartoon competition.
- Students must produce their own work and cite sources properly and consistently.

#### Awards

- State-level winners will get an opportunity to visit an industry (like a power plant, dairy or textile industry). Either a teacher or parent or Joint Coordinator can accompany each student along with District Coordinator or his nominee. All expense as per the eligibility will be borne by EMC.
- A Certificate of merit will be given to all the winners.
- Each student along with their accompanying one guardian will be eligible for travel allowance, lodging and food facilities.

## 4. DETAILS OF PAINTING COMPETITION - Educational District level/ State level

**Painting Theme:** Energy & Water

### Eligibility Criteria

Participants must be:

- One student each from SEP enrolled schools.

### Painting Submission Guidelines

- Paper size: A4 (210 X 297 mm) or A3 (297 X 410 mm) and Letter (216 × 279 mm)
- 1.5 hr (90 minutes) for Painting competition.
- Students must produce their own work and cite sources properly and consistently.

### Awards

- State-level winners will get an opportunity to visit an industry (like a power plant, dairy or textile industry). Either a teacher or parent or Joint Coordinator can accompany each student along with District Coordinator or his nominee. All expense as per the eligibility will be borne by EMC.
- A Certificate of merit will be given to all the winners.
- Each student along with their accompanying one guardian will be eligible for travel allowance, lodging and food facilities.

## FORMAT FOR STATEMENT OF EXPENDITURE

District :

Educational District:

Title of the Program :

Name of the District coordinator :

<b>AMOUNT SANCTIONED</b>	<b>DETAILS OF EXPENDITURE INCURRED IN ITEM WISE</b>	<b>DATE &amp; VENUE OF THE PROGRAM</b>

Name and signature of District coordinator

## FORM OF UTILIZATION CERTIFICATE

SL.NO	LETTER NO. & DATE	AMOUNT
Cert 1		
	Total	

Certified that Rs.    of advance payment sanctioned during the year 2016-17 in favour of ..... (Name) a sum of Rs ..... has been utilized for the purpose of SEP program as per the letter cited.

2. Certified that I have satisfied myself that the conditions on which the advance payment was sanctioned have been duly fulfilled and that I have exercised the necessary steps to see that the money was actually utilized for the purpose for which it was sanctioned.

Kind of checks exercised.

1. Verifying vouchers with relevant sanction order.
2. Checking of vouchers with cash/bank book
3. Counter checking of the payment sanctions.
4. Routine general check

Signature

Date

Designation

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