



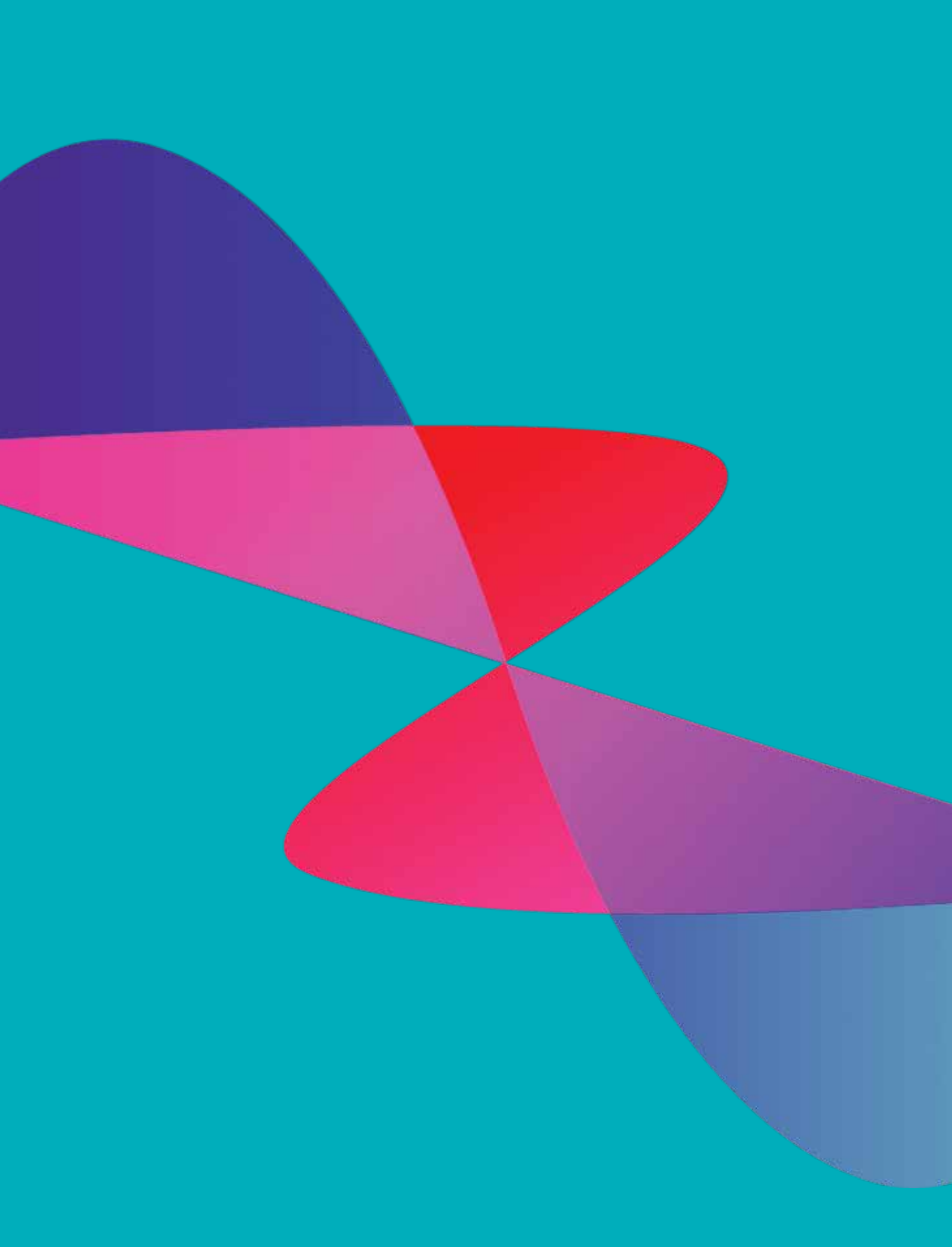
**SMART ENERGY PROGRAM 2019-2020**

# PROSPECTUS



**Energy Management Centre - Kerala**





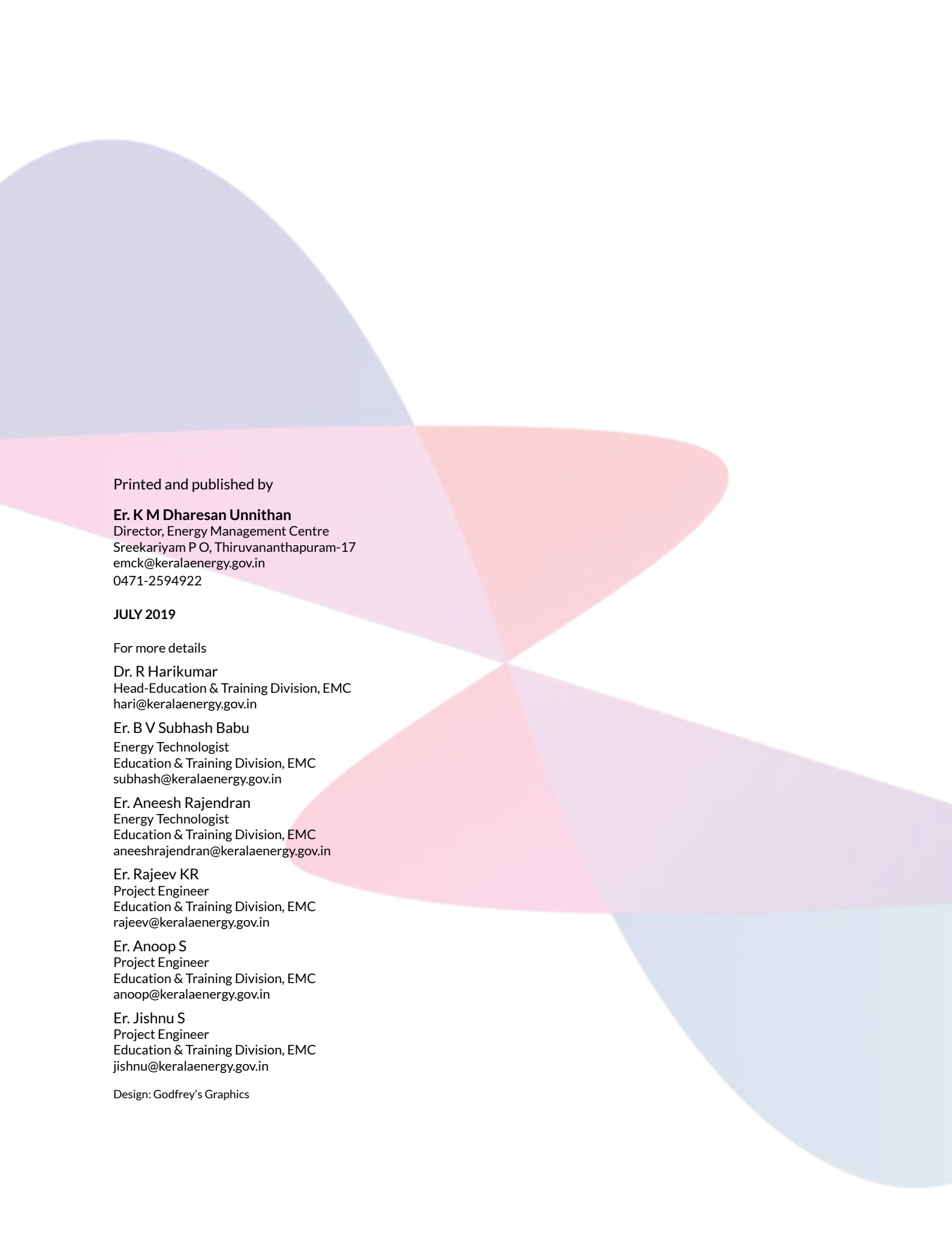


**SMART ENERGY PROGRAM  
2019-2020**

# PROSPECTUS



**ENERGY MANAGEMENT CENTRE - KERALA**



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# INTRODUCTION

**E**nergy is one of the most critical components of infrastructure, crucial for the economic growth and welfare of nations. The existence and development of adequate infrastructure is essential for sustained growth of an economy. India's power sector is one of the most diversified in the world. The sources of power generation range from conventional sources such as coal, natural gas, oil, hydro and nuclear power to viable non-conventional sources such as wind, solar, and agricultural and domestic waste. Electricity demand in the country has increased rapidly and is expected to rise further in the years to come. In order to meet the increasing demand for electricity in the country, massive addition to the installed generating capacity is required. The total installed capacity of power stations in India stood at 334,146.91 Megawatt (MW) as of February 28, 2018. Total generation capacity / availability of power for Kerala is 3140 MW. Out of total 2760 MW, 69 % is from Hydro, 18 % is from Thermal, and balance 13 % is from Renewable Energy Sources (Solar & Wind).

Energy conservation refers to the reducing of energy consumption through energy efficient technologies and behavioral practices without reducing the required output and comfort. Energy conservation can result in increased environmental quality by reduced carbon foot prints; improve national energy security, personal financial security and higher savings. It is at the top of the sustainable energy hierarchy. It also lowers energy costs by preventing future resource depletion and reserve for our future generations. Energy efficiency aims to reduce the amount of energy required to provide products and services. For example, installing LED lights or natural skylights at your home reduces the amount of energy required to attain the same level of illumination compared with using traditional incandescent, discharge & CFL light bulbs.

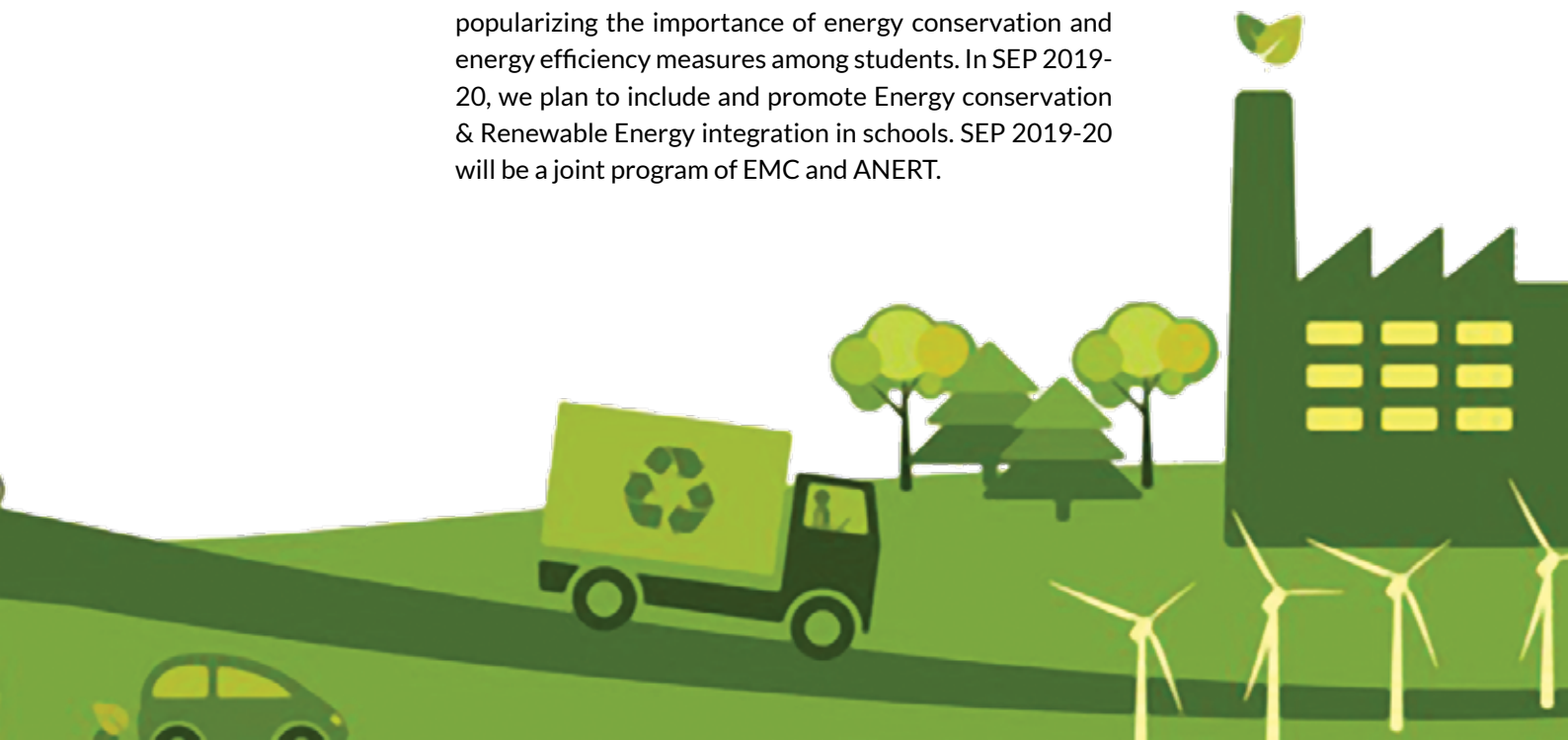
Improvements in energy efficiency are generally achieved by adopting a more efficient technology or production process or by application of commonly accepted methods to reduce energy losses. Reducing energy use is also seen as a solution to the problem of reducing greenhouse gas emissions.





## SMART ENERGY PROGRAM (2019-2020)

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. Smart Energy Program (SEP) 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. In SEP 2019-20, we plan to include and promote Energy conservation & Renewable Energy integration in schools. SEP 2019-20 will be a joint program of EMC and ANERT.





## School level

- ▶ All schools in each education district (ED) shall enroll in SEP. Schools including UP, High school (Government, Aided, Unaided, CBSE and ICSE) may be enrolled. Each school should enroll a minimum number of fifty students to SEP. Enrolment will be through a Google Forms and should be done before July 30th 2019. Link to access Google Forms is available with concerned joint/district coordinators.
- ▶ Each school should make a committee of SEP including School Principal/Headmaster, PTA President, student representative and SEP School Coordinator (designated teacher) as the convener.
- ▶ Each HS and UP school should conduct the following competitions and nominate the winners for educational district level.

| Competition          | Category | Mode      |
|----------------------|----------|-----------|
| Quiz competition     | UP, HS   | Mandatory |
| Cartoon              | UP, HS   | Mandatory |
| Essay writing        | UP, HS   | Mandatory |
| Project Presentation | UP, HS   | Voluntary |
| Water colouring      | LP       | Voluntary |

- ▶ Each member school should conduct a lecture on Energy Conservation and Energy Efficiency through respective SEP - coordinator. If required, resource support for conducting Energy Conservation lectures in schools can be obtained through the Joint Coordinators.
- ▶ For Project presentation, collect abstract from each UP & HS schools and select best 10 teams from each ED for education district level competition. The first and second prize winners will be selected for district level competition. There will not be any state level competition for Project presentation.
- ▶ LP schools should conduct a water colouring competition only.
- ▶ The list of member students in the SEP of the school should be submitted to EMC using the Google form provided by EMC. The list should contain details such as Name, Standard & Division.
- ▶ EMC will issue e-certificate for all the member students of SEP.







### Educational district level

- ▶ A committee must be formed in each education district for the well functioning of the programme. The committee members should include DEO, AEO under ED, selected Headmaster/ Headmistress's, DC with JC of SEP as convener of the committee.
- ▶ The joint coordinators in consultation with the DEO, AEO's and district coordinator should organize a campaign on SEP in each educational district in order to discuss the "Energy Conservation Awareness Programme" (Sensitization camp) and its effective implementation before July 30th.
- ▶ Each educational district should conduct the mandatory competitions and the program will be titled as "Oorjolsavam". Competitions should be conducted for HS/UP and LP level separately. For energy quiz competition and project presentation, only one group (consisting of 2 students) from each school shall be permitted. For all other competitions only 1 student from each school is permitted.

### Revenue District Level

- ▶ Under each revenue district, the judging panel may preferably be same for all educational districts. District coordinators should select the 1st, 2nd & 3rd prize winners from the respective educational district for the revenue district level competitions. An officer designated by EMC will attend the programme as observer. 1st prize winners from each Revenue district only can participate in the Kerala State Students' Energy Congress (KSSEC) which will be conducted tentatively in the last week of January 2020 at EMC.

## State Level- Kerala State Students Energy Congress (KSSEC) - 2020

- ▶▶ In order to evaluate the State level activities of SEP, state level monitoring committee will be formed which consists of a nominee from DPI, two nominees from EMC, and three DC's. A member from EMC will be the convener of the committee.
- ▶▶ In the month of January 2020, EMC will conduct a state level program titled "Kerala State Students' Energy Congress" (KSSEC). This will be a one day programme consisting of talk on any topic related to energy which is of current relevance such as the importance of energy conservation, energy efficiency, renewable energy integration and sustainable energy by experts and eminent personalities along with the conduct of state level finals of different mandatory competitions comprising of winners from each Revenue district.
- ▶▶ TA for the participating team will be provided (II Class sleeper train fare/ Super Fast bus fare on production of original tickets).

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## NECM- National Energy Conservation Month activities

On December 14th – National Energy Conservation Day (NECD), all districts shall conduct a district level general awareness program for public. It can be any of the following or some mode of awareness campaign.

1. Awareness campaigns
2. Rally
3. Plays like skits and mime
4. Exhibitions

The programme should be conducted in the month of December in presence of elected representatives of the government/local body such as MLA/District Panchayath President/Mayor etc.

- ▶▶ In addition to December 14, 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 consider providing support.
- ▶▶ For the conduct of this programme each district coordinator is eligible for a maximum amount of Rs. 10000/-. It should be ensured that, the majority participation should be public and not students.

## FUNDING PATTERN

- ▶ Travelling Allowance should be distributed for participants at the respective venues (Fast Passenger bus ticket charges limited to a maximum of Rs 100/-).
- ▶ The advance amount will be sanctioned to concerned JC's on recommendation of DC.
- ▶ Reports must include write up of activities conducted and photographs in the prescribed format attaching the Statement of Expenditure, Utilization Certificate, Registration forms, invoices etc. The report must be certified by respective DCs.

| Sensitization Camp:                       |   |
|---|---|
| The budget allocated for the programme is | (Organizational Expense* + 125# x (Number of Participating schools+5 [organizing team] )) |
| Oorjolsavam (Educational Dist Level):     |   |
| The budget allocated for the programme is | (Organizational Expense* + Honorarium for judges% + 200# x Number of Participants@)       |
| Oorjolsavam (District Level):             |   |
| The budget allocated for the programme is | (Organizational Expense* + Honorarium for judges% + 200# x Number of Participants@@)      |

- \* = Allocated an amount of Rs. 2500 for 500 Peoples for a program towards Venue arrangement, banner etc
- # = Expense towards TA, Tea, Snacks etc
- % = Honorarium for judges 6 X 1,500 = 9,000/- (2 each for mandatory competition). For voluntary competitions, the honorarium for judges shall be 3 x 1,500 = 4,500/- ( 2 for project presentation and 1 for water colouring )
- @ = 6 students & 1 teachers from a school (One each for Painting, Water colouring ( LP level) Cartoon & Essay writing a group of 2 for Quiz competition)
- @@ = First and Second position holders of competitions in ED level (HS & UP)

## HONORARIUM FOR COORDINATORS

The Honorarium for SEP coordinators will be based on the participation index, calculated as

$$\text{Participation Index} = \left( \frac{[(\text{Number of Schools Enrolled} \times 300) / \text{Total number of schools available in the ED}] + \text{Number of schools represented in the Sensitization camp} + \text{Number of Schools participated in Oorjolsavam} \right)$$

Honorarium for District Coordinators = **Rs 30 x Participation Index**

Honorarium for Joint Coordinators = **Rs 55 x Participation Index**

## REIMBURSEMENT OF EXPENSES – SCHEDULE

| Amount  | In receipt of  |
|---|--|
| Advance for sensitisation camp                          | Intimation of Date and Venue of the camp.  |
| Balance payment of sensitisation camp                   | Report of sensitisation camp with participants details, UC and expenses statement through district coordinators. |
| Advance for <i>Oorjolsavam</i> – 50% of Overall expense | Intimation of date, venue of the programme, number of expected participants and number of competitions.          |
| Balance payment of <i>Oorjolsavam</i>                   | Report of <i>Oorjolsavam</i> with participants details, UC and expenses statement through district coordinators. |
| Advance for NECD Programme - Rs 7,500                   | Intimation of venue & nature of programme along with list of People's Representatives                            |
| Balance payment of NECD Programme - Rs 2,500            | Submission of report of NECD with participants details, expenses statement through district coordinators         |
| Honorarium for DCs & JCs                                | After the State level program and submission of reports of SEP   |

## DETAILS OF COMPETITIONS

Each educational district should conduct the mandatory competitions involving winners from School level. The Educational District level winners will be shortlisted to participate in the Revenue district level competitions. The first place holder in each competition (HS/UP level) will get an opportunity to participate in the state level competition – KSSEC 2020.

- ▶▶ A certificate of merit will be presented to all the Educational District/ Revenue District winners
- ▶▶ The criteria for each competition is as below,

## 1. Energy Quiz – Educational District / District Level

### Eligibility Criteria:

- ▶ Each member school can nominate a group consisting of 2 students for participating in the Energy Quiz.
- ▶ A preliminary screening should be done, the screening can be in the form of an objective type written quiz – which should be evaluated on spot by participants themselves after interchanging the answer scripts. Only one member from the group should attend the preliminary screening.
- ▶ The Energy Quiz should have a minimum of 10 participating teams.

### Guidelines:

- ▶ Must have 2 – 3 rounds of questions with different points. (at least 2 set of questions in a round/group)
- ▶ There should be a time clock for each question and if the group is unable to answer pass on the question to the next group. The marks for passed questions will be half of the originally set points.
- ▶ The team with the maximum points at the end of 3 rounds will be declared the winner.
- ▶ In case of a tie, a rapid fire round will determine the winner among the tied teams.

## 2. Cartoon – Educational District / District Level

### *Cartoon Theme: “Carbon Neutral Lifestyles”*

### Eligibility Criteria:

Participants must be:

- ▶ A student from SEP enrolled schools.
- ▶ Only one entry from a school is allowed

### Guidelines:

- ▶ Paper size: A4 (210 X 297 mm) or A3 (297 X 410 mm)
- ▶ 1.5 hr (90 minutes) for Cartoon competition.
- ▶ Students should bring their own materials for drawing

## 3. Essay Writing – Educational District / District Level

### *Essay Topic: Rebuilding an Energy Efficient Kerala*

### Eligibility Criteria

Participants must be:

- ▶ A student from SEP enrolled schools.
- ▶ Only one entry from a school is allowed

### **Essay Submission Guidelines**

- » Length of Essay: 800 words (excluding bibliography and citations).
- » 1.5hr (90 minutes) for essay writing.
- » Paper Size: Letter Size Paper (216 × 279 mm)
- » They must limit the essay within the sheets provided, no additional sheets will be provided.
- » 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 can be written in Malayalam / English.

## **4. Water Colouring – Educational District / District Level**

### ***Painting Theme: Clean Energy***

#### **Eligibility Criteria:**

Participants must be:

- » A student from SEP enrolled schools.
- » Only one entry from a school is allowed

#### **Guidelines:**

- » 1.5 hr (90 minutes) for water colouring.

## **5. Project Presentation Education district/ District Level**

#### **Eligibility Criteria:**

Participants must be:

- » A team of maximum of 2 students from SEP enrolled schools.
- » Only one entry from a school is allowed

#### **Guidelines:**

- » One project from each school is allowed and a team may have maximum of two members. Each school should submit their abstract (in the format given below) to their respective coordinator and take approval to proceed with the project.
- » Joint/ District coordinator will select best 10 teams from each ED for education level competition. The first and second prize winners will select to district level competition. No state level competition for Project presentation.



### AWARDS FOR STATE LEVEL WINNERS

- ▶ State level winners will get an opportunity to visit any industry (like a power plant, dairy, textile industry, etc.). Either a Teacher/Parent/Joint Coordinator can accompany each student along with District Coordinator or his nominee.
- ▶ All expense as per eligibility will be borne by EMC.
- ▶ A certificate of merit and Memento will be presented to all the winners.
- ▶ Each winner along with one accompanying parent will be eligible for travel allowance, lodging facilities.





## UTILIZATION CERTIFICATE

| Sl.No: | Letter/Proceedings No: & Date | Amount |
|--------|-------------------------------|--------|
|        |                               |        |
|        | <b>Total</b>                  |        |

Certified that Rs. .... of advance payment sanctioned during the year 2018-19 in favour of.....(Name) a sum of Rs ..... has been utilized for the purpose of SEP program as per the letter cited

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 up

Date:

Cross Checked by (DC):

Name & Signature of the coordinator:

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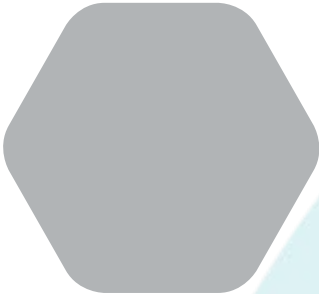
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നം.കൃ.ഐ.പി.2/8670/2019/ഡി.പി.ഐ.

പൊതു വിദ്യാഭ്യാസ ഡയറക്ടറുടെ  
കാര്യാലയം, തിരുവനന്തപുരം.  
തീയതി : 25.05.2019.

**സർക്കുലർ**

വിഷയം : പൊ.വി.വ - ഊർജ്ജ സംരക്ഷണ അവബോധം സ്കൂൾ കുട്ടികളിലൂടെ  
- സ്കൂൾ എനർജി പ്രോഗ്രാം 2019-20 - സംബന്ധിച്ച്

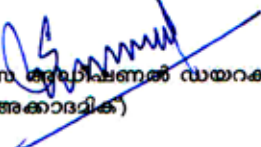
സൂചന : 15.05.2019 ലെ എനർജി മാനേജ്മെന്റ് സെന്റർ ഡയറക്ടറുടെ  
കത്ത് നം.EMC/159/2019-PE14 (ETR)

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കേരള സർക്കാരിന്റെയും കേന്ദ്ര ഊർജ്ജ മന്ത്രാലയത്തിന്റെയും സഹകരണത്തോടെ എനർജി മാനേജ്മെന്റ് സെന്റർ എന്ന സ്ഥാപനം എൽ.പി.സ്കൂളുകളിലും, യു.പി.സ്കൂളുകളിലും ഹൈസ്കൂളുകളിലും നടപ്പിലാക്കുന്ന പദ്ധതിയാണ് സ്കൂൾ എനർജി പ്രോഗ്രാം (എസ്.ഇ.പി). കുട്ടികളിൽ ഊർജ്ജസംരക്ഷണം ദിനചര്യയുടെ ഭാഗമാക്കുക എന്നതാണ് എസ്.ഇ.പി യുടെ പ്രധാന ലക്ഷ്യം. എസ്.ഇ.പി.യുടെ കീഴിൽ വിദ്യാർത്ഥികൾക്കായി ഊർജ്ജസംരക്ഷണ ബോധവൽക്കരണ ക്ലസ്റ്ററുകൾ, പ്രദർശനങ്ങൾ എന്നിവ കൂടാതെ ഊർജ്ജക്വിസ്, കാർട്ടൂൺ, ചിത്രരചന, ഉപന്യാസം എന്നീ മത്സരങ്ങളും സംഘടിപ്പിക്കുന്നതാണ്. എസ്.ഇ.പി യുടെ കോർഡിനേറ്ററുമാർ സ്കൂളുകൾ സന്ദർശിക്കുകയും പരിപാടികളുടെ നടത്തിപ്പിനാവശ്യമായ നിർദ്ദേശങ്ങൾ നൽകുകയും ചെയ്യുന്നതാണ്. എസ്.ഇ.പി. യുടെ പ്രവർത്തനങ്ങൾ അതാത് സ്കൂളുകളിലെ സയൻസ് ക്ലബിന്റെ പ്രവർത്തനങ്ങളുമായി ഏകോപിപ്പിക്കാവുന്നതാണ്. വളർന്നു വരുന്ന ഒരു തലമുറയെ ഊർജ്ജ സംരക്ഷണത്തിന്റെ ആവശ്യകതയിൽ ബോധവാൻമാരാക്കുക വഴി അത് നമുക്കും, നാടിനും, രാജ്യത്തിനുമെല്ലാം ഗുണം ചെയ്യും എന്ന കാര്യത്തിൽ സംശയമില്ല. വിദ്യാർത്ഥികളുടെയും അധ്യാപകരുടെയും പി.റ്റി.എ.യുടെയും സഹകരണത്തോടെ പദ്ധതി നടപ്പിലാക്കിയാൽ കാലാവസ്ഥ വ്യതിയാനം പോലുള്ള വിപത്തുകളിൽ നിന്നും നാടിനെ രക്ഷിക്കാൻ കഴിയും.

സ്കൂൾ എനർജി പ്രോഗ്രാം 2019-20, കേരള സർക്കാരിന്റെ പ്രഖ്യാപിത പരിപാടികളിൽ ഒന്നാണ്. ആയതിനാൽ സംസ്ഥാനത്തെ എല്ലാ എൽ.പി. സ്കൂളുകളിലും, യു.പി.സ്കൂളുകളിലും, ഹൈസ്കൂളുകളിലും അധ്യയനത്തിന് തടസ്സം വരാത്ത രീതിയിൽ ഈ പദ്ധതി നടപ്പിലാക്കേണ്ടതാണ്. ആയതിന്റെ പ്രവർത്തനങ്ങൾ ക്രോഡീകരിക്കാൻ ഒരു ടീച്ചറുടെ സേവനം ലഭ്യമാക്കുകയും, സ്കൂളുകൾ ഇതുമായി ബന്ധപ്പെട്ട പ്രവർത്തനങ്ങളിൽ സജീവമായി പങ്കെടുക്കേണ്ടതുമാണ്.

വിശ്വസ്തതയോടെ,

  
പൊതു വിദ്യാഭ്യാസ അഡ്വൈസണർ ഡയറക്ടർ  
(അക്കാദമിക്)

സ്വീകർത്താവ്:

1. എല്ലാ വിദ്യാഭ്യാസ ഉപഡയറക്ടർമാർക്കും
2. എല്ലാ ജില്ലാവിദ്യാഭ്യാസ ഓഫീസർമാർക്കും
3. എല്ലാ ഉപജില്ലാ വിദ്യാഭ്യാസ ഓഫീസർമാർക്കും
4. എല്ലാ പ്രഥമവ്യാപകർക്കും (ബന്ധപ്പെട്ട വിദ്യാഭ്യാസ ഓഫീസർമാർ മുഖേന)

ബി.എൻ.എൽ.25.05.19





*For more queries, please contact:*

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