

ENERGY MANAGEMENT CENTRE – KERALA



CITIZENS' CHARTER



Sreekrishna Nagar, Sreekariyam P. O
Thiruvananthapuram-695017

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CITIZENS' CHARTER

Energy Management Centre-Kerala (EMC) is an autonomous body under Department of Power, Government of Kerala, registered under the Travancore-Cochin Literary, Scientific and Charitable Societies Act of 1955 with Reg.No: 139/96. The Centre came into existence on 07-02-1996. The office of the organization is situated at Sreekariyam, Thiruvananthapuram.(about 100 M from Chavadimukku towards College of Engineering, Kulathoor)

EMC is the State Designated Agency to enforce, regulate, co-ordinate and to implement the provision of the Energy Conservation Act 2001.

Our Vision:

Achieving maximum Energy Efficiency in all sectors of economy by participating all sections of people.

Our Mission:

To make energy conservation, a cultural entity in the process of sustainable development through efficient energy management.

Objective:

To facilitate efficient management of all forms of energy, to promote energy efficiency and energy conservation and to develop new sources of energy as well as novel energy technologies with a view to increasing

production, improving the quality of life and facilitating the use of energy on a sustainable basis.

Energy Management Centre promotes and provides facilities and information mainly through 3 Divisions of this Centre viz. Energy Efficiency Division, Small Hydro Power Division and Information Technology Division.

I. Energy Efficiency Division

Helps to implement the objectives of the Centre, to facilitate efficient management of all forms of energy, to promote energy efficiency and energy conservation and to develop new sources of energy as well as novel energy technologies with a view to increasing production, improving the quality of life and facilitating the use of energy on a sustainable basis.

In particular the objects are :

- ❖ To develop innovative methodologies and techniques and devise programmes for efficient energy management.
- ❖ To identify barriers to improving energy efficiency and propose appropriate remedial approaches including policy measures and financial incentives.
- ❖ To carry out, support and promote research studies on energy management.
- ❖ To advise various sectors of economy like industry, transport and agriculture etc., the agencies connected with energy production, handling and utilization and the Government on issues related to all forms of energy and its efficient management.
- ❖ To monitor and promote energy conservation activities in the State of Kerala.
- ❖ To increase the skill and capability of energy professionals.

- ❖ To act as a nodal agency for generation, collection and dissemination of latest technical information on energy management and improve the energy information system.
- ❖ To create and maintain a database on supply, demand and prices of energy, energy efficiency, energy conservation and related technologies.
- ❖ To review laws and regulations that have a bearing on energy efficiency, develop standards and norms for efficient energy use in the various sectors of economy in the State and propose modifications.
- ❖ To liaise with national & international organizations, Universities, Research Centers, Regulatory bodies, funding agencies and such other institutions connected with various aspects of energy management, including exchange of research results and energy statistics on energy policy, forecasting and planning techniques.
- ❖ To facilitate exchange of energy experts between the state of Kerala and other regions within India and abroad.
- ❖ To perform such other functions as desired by the Government and undertake such other activities as are relevant to fulfill the objects of the Centre.

Other services

- ❖ Facilitating of Energy Auditing in Government and private buildings in Kerala for assessing energy conservation potential and also to make these buildings as model energy efficient buildings.
- ❖ EMC is regularly conducting training, awareness, demonstration programmes to general public, skilled and unskilled employees of industries, students, and housewives etc. to make aware of the need for energy conservation. Also EMC is supporting to conduct Energy Audit/Energy Efficiency studies in different organizations with a view to reduce the energy consumption and to improve energy efficiency, which ultimately leads to enhancement of profitability. Students being the future of Nation, EMC started energy conservation clubs in schools and

Energy-Environment Conservation clubs in colleges/polytechnics/it is to inculcate the habit of energy conservation.

II. SHP Division

SHP DIVISION of the Energy Management Centre, Kerala, has taken initiatives for speedier development of Small Hydro Power (SHP) in Kerala, with people's participation. Altogether, the projects division dealt with environment friendly systems of development of power especially, Small Hydro Power with a sustainable development initiative. Small and mini hydel potential can provide a solution for the energy problems in remote and hilly areas where extension of grid system is comparatively uneconomical. One of the main activities of Energy Management Centre is therefore to develop, introduce and promote electricity generation techniques and programmes through SHP. This division provides following services

- Total Consultancy and Project Report Preparation of Small/Mini/Micro project for local bodies/Pvt. Developers.
- Renovation and modernization of small/mini/micro projects developed by panchayaths.
- Provide consultancy for development of micro hydel turbines suited to off-grid areas.
- Developed a 10 KW micro hydro turbine

III. Information Technology Systems Division

The IT Systems Division of the Centre is running the Centre's IT facility and websites and provides necessary computing facilities and IT infrastructure to the SHP Cell, Govt. of Kerala and UNIDO Regional Centre for SHP and its project locations in South Asia. The Division works with other divisions in EMC and organizations in Kerala to provide IT services and training to staff members and project trainees/students.

LABORATORY FACILITIES

EMC has a well equipped laboratory. Various instruments currently available and used for R & D and Consultancy works. These equipments can be borrowed on rent for other organizations and individuals. The current rates of rent for the equipments are as follows:

Sl. No	Name of Equipment	Rent per day Rs.
1	Power Analyzer	2500
2	Power Recorder	1000
3	Harmony Analyzer	1250
4	Infra Thermometer	1000
5	Lux Meter (with Technician)	800
	Lux Meter (without Technician)	500
6	Temp Indicator (without Technician)	350
	Temp Indicator (with Technician)	500

These rates may change as per the decision of the Executive Committee.

On submission of application/request with prescribed fee the services will be rendered on the same day itself.

LIBRARY

EMC has a library of 2182 books of various subjects and 64 journals and newsletters particularly in Energy and Environment Management. EMC library is structurally conceptualized as a multi disciplinary one, capable of providing adequate information base for energy related subjects in renewable, energy conservation, Environment, Energy Management and non-renewable energy sources.

EMC Library is opened for reference to Engineers, Scientists and Faculty/Students of Research Institutions. In order to become a member of EMC library, interested parties have to submit application forms along with membership fee, which may be paid in cash or DD in favor of Director, Energy Management Centre payable at Thiruvananthapuram.

Fee Structure (For Reference)

1. Individuals : Rs. 250 per year
2. Institutions: Rs. 1000 per year (2 Cards)

Those who want to take out the books from the Centre should deposit an amount of Rs. 5000 (which will be reimbursed on termination of membership).

On submission of application/request with prescribed fee the services will be rendered on the same day itself.

RESEARCH CUM DEMONSTRATION PROJECT

The Centre has been conducting Research and Development Activities related to efficiency improvement in Small and Medium Enterprises (SMEs) and energy efficient monitoring systems for industries and also for the development of energy efficient cooking aids etc.

EMC also conducts Energy Conservation Programmes, Demonstration programmes, Education, Training & Awareness programmes in Industries, Govt. Departments, Educational Institutions, Local Self Governments, House wives etc.

KERALA STATE ENERGY CONSERVATION AWARDS

Every Year awards are giving to recognize the selected enterprises, organizations, individuals and students who have made systematic and serious

attempts for efficient utilization of energy, conservation of energy, research and promotion of energy efficiency.

Further details are available in our web site: www.keralaenergy.gov.in

Web Portal:

EMC has developed a web portal to attend the diversifying activities on the implementation of Energy Conservation Act 2001, like from; Designated consumers, Energy auditors, Energy managers, Energy clinic volunteers, energy club members. The web portal www.keralaenergy.gov.in enables to unify information from categories; e-filing of energy data by designated consumers, report submission of Energy Clinic Volunteers, activities of energy auditors and managers. This single point access is making use of all these categories for effective working.

Energy information bureau

EMC has developed a Toll-free Energy Information Centre. Through this centre consumers can get free information about new technologies of energy efficiency, energy conservation, Star labelling and other information about EMC. Toll free number is 1800 425 5256

In addition to the above activities, following Centres and Cell are also functioning in EMC and their services are detailed below:

Small Hydro Promotion Cell

Small Hydro Promotion Cell under the Department of Power is also functioning in Energy Management Centre for promoting Small Hydro Power projects in the State. This Cell is functioning as a technical secretariat under Secretary (Power) for administration of implementation agreements executed with Government by various power producers.

Government has allotted 12 small hydro Schemes totaling to 43.75 MW to various Captive/Independent Power Producers and revived two schemes totaling to 22MW. Through this initiative, 10MW capacity SHP projects were commissioned and remaining projects were under various implementation.

The Small Hydro Power Promotion Cell set up in EMC by Government of Kerala give vital support to develop Small Hydro Power Projects in the state through Local Bodies and private participation.

UNIDO Regional Centre at EMC for Development of Small Hydro Power in South Asian Region

The UNIDO Regional Centre for SHP was established in 2003 as project of UNIDO, Govt. of India and Kerala Government and is functioning in EMC. The Centre has liasoned with UNIDO and International Centre on Small Hydro Power to implement a mini hydel project at Pampumkayam (110kW) in Mankulam Grama Panchayath and has commissioned the project in October 2004.

As part of the activity, the Regional centre prepared Detailed Project reports for 8 SHP schemes. Three new MHP schemes were identified in and around Mankulam. 3 International workshops were organised under aegis of UNIDO.

WISER (WOMEN'S INSTITUTE FOR SUSTAINABLE ENERGY RESEARCH)

WISER is joint programme of EMC and USAID (United States Agency for International Development) to promote energy security through access to clean sources of power and fuel. WISER, the centre of excellence for Promoting the active participation and leadership of women in the energy sector is an extended form of the "Energy Clinic" programme of EMC.

WISER is a resource hub offering technical knowledge, training and capacity building on clean energy technologies, applications and services relevant for women in South Asia. It reaches out to identify best practices and pilot projects

on the ground and works towards designing self – sustaining mechanisms and entrepreneurship around them. Through training of trainers and building alliances, WISER spreads the information and expertise in the region. Women participants from Afghanistan, Pakistan, Nepal, Bhutan, Bangladesh, Sri Lanka, Maldives and India were attended various training programme in WISER. It partners with local, regional and international entities, drawing upon relevant experience and expertise.

Service Availability

EMC is committed to provide the services during the office hours on all working days. The facilities are provided mainly through three Divisions (viz) Energy Efficiency Division, Small Hydro Power Division and Information Technology Division.

Procedure/Time limit

Procedure to avail the services and information and cost of services are as under:

Sl. No.	Services Offered	Division to be contacted	Cost of Service	Time Limit
1	Support to conduct Energy Audit of Govt/Pvt. buildings and also industries in Public/Pvt Sector – To assess energy conservation potential through the EMC empanelled Energy Auditors.	Energy Efficiency Division	Based on Man days and technical equipment by the Energy Audit firm.	The details of the Energy Audit firms are available in the web-site. If needed details will be given within five days
2	Energy Conservation clubs in schools and Energy Environment Clubs in Colleges/polytechnic.	-Do-	Free of cost	Within 10 days after the receipt of request from school/college Authorities.
3	Training, Awareness, Demonstration programmes/workshops for various groups (Resident Association, Skilled/unskilled workers of industries, students, house wives etc.	Energy Efficiency Divisions	Normally free of cost /EMC will also organize paid programmes	Within 15 days after receipt of request.

4.	Awareness on Star Labelling	-Do-	Normally free of cost /EMC will also organize paid programmes	1 day.
5	Consultancy/Project Report/Renovation and Modernization of Small Hydro projects.	SHP Divisions	Based on size and scope of the project.	The initial work will commence within 15 days of receipt of request.
6	Consultancy for development of Micro Hydro Turbine	-Do-	-Do-	-Do-

Grievance Redressal

In case you are not satisfied with the services provided by the Centre, please send your complaints to the Director by name by post or e-mail or can contact through telephone. You can also meet him in person on all working days.

Time Limit:

Your complaints/suggestion will be acknowledged immediately. Appropriate action will be initiated for redressal within 15 days.

Contact persons:

Director :. K. M. Dharesan Unnithan

Tel: 0471-2594921, 2594922, 2594924, Fax: 0471-2594923

E-mail: emck@keralaenergy.gov.in

Website: www.keralaenergy.gov.in

Registrar: S. Padmakumar

Head, Energy Efficiency Division: A. M. Narayanan

Head, Small Hydro Power Division: G. Anil

Head, I T Systems Division: Suwil kumar. W. S.

Finance Manager: S. Sathichandran