



## Government of Kerala



### Winners of Kerala State Energy Conservation Award 2010

The State Level Monitoring Committee for energy conservation in Kerala, on evaluating the various entries for state level award and ascertaining the facts through discussion and interviews/presentation, before a judging committee, selected the following organisations / individuals for conferring the Kerala State Energy conservation award and commendation certificate-2010 for their achievements in Energy conservation during the year 2009-10.

Through various energy conservation measures 48 Industrial units has saved 23.52 MU of electricity, 13,246.83 Tons of Oil, 14.89 T of LPG and 4554 T of coal. This year EMC has received 159 applications for the State award.

#### 1. LARGE SCALE ENERGY CONSUMERS - Citation, Plaque

##### **Best Performance Award:**

**BSES Kerala Power Ltd., Udyogamandal ,Kochi.**

BSES Kerala Power Ltd has been conferred the award considering their all-round performance and consistency in Energy Conservation measures. They were able to achieve significant reduction in overall energy levels by constant monitoring and achieving set targets. Reduction in Specific Energy levels was achieved through their continuous efforts at various levels.

Some of their Energy saving measures are

- Installation of additional CPH (Condensate Pre Heating ) coil in three HRSGs (Heat Recovery Steam Generators).
- Replacement of existing main cooling water pump with enhanced pump .
- Replacement of 7 Nos. of Cooling Tower Fan blades with high efficient hollow FRP blades.
- Installation of Vacuum pump in place of steam ejector.

**Best Performance Award  
Ltd., Kottayam.**

**MRF**

MRF Ltd., Kottayam been conferred the award considering their all-round performance and consistency in Energy Conservation measures. They were able to achieve significant reduction in overall energy levels by constant monitoring and achieving set targets. Reduction in Specific Energy levels was achieved through their continuous efforts at various levels.

Some of their Energy saving measures are

- Process improvement; Cure time reduction in Tyre Curing Process
- Avoid usage of compressor Air for 15 TPH Boiler Suit Blower Gland Cooling/blanketing
- Usage of low pressure Compressor for inflation of Green tubes at pre-curing stage
- Providing Insulation to High pressure steam /Hot water service lines of Tyre Curing press
- Project to reduce blow down losses by providing R.O water for boiler feed, in place of soft water.
- Usage Solar water heaters and Solar powered lights

**Commendation Certificate  
Apollo Tyres, Kalamassey, Eranakulam**

Some of the energy conservation activities that helped them to achieve this award are

- Installation of VFD for 150 Psi Air Compressor.
- Installation Of Light Pipes
- Installation Turbo Ventilator

**Commendation Certificate**

**Marico, Ltd,  
Palakkad.**

Some of their Energy saving measures are.

- Automation of copra Copra bit conveyor
- Installation of energy saver for lighting
- Rain water harvesting for boiler feed water
- Flash steam recovery
- Reduction in consumption of HDPE by introducing new technology and reuse

## **2. MEDIUM SCALE ENERGY CONSUMERS - Citation, Plaque**

**No Award**

**MEDIUM SCALE ENERGY CONSUMERS**

**Commendation Certificate  
Coconut Lagoon, Kumarakom, Kottayam.**

Some of their Energy saving measures are

- ▶▶ Introduction of Methane gas for cooking instead of LPG
- ▶▶ Installation of Solar LED's for pathway lights.
- ▶▶ Gas fired tandoor has been replaced with coconut shells, tender coconut husks, fired one.
- ▶▶ Introduction Solar Boat.

- ▶▶ Installation of Solar water heaters
- ▶▶ Construction wall with waste plastic bottles
- ▶▶ Periodic Energy conservation Awareness programmes for the staff

**Commendation Certificate  
Palakkad Dairy, Palakkad.**

Some of their Energy saving measures are

- Introduction of bulk milk coolers(BMC)
- Fuel substitution. HSD replaced with Coconut shells in boiler.
- Installation of Energy efficiency Pump
- Modification in filling machine
- Rain Water Harvesting System

**Commendation Certificate  
Trichur Cooperative spinning Mill, Thrissur.**

Some of their Energy saving measures are

- Replacement of sodium Vapor with CFL and Double set FL Tube with CFL
- Replaced heater and implement Bio gas plant.
- Power factor improvement.
- Installation of Energy efficient motors

3. **CHANNELS AND MEDIA - Citation, Plaque, Rs 10,000/-**

**Best Performance Award  
Deepak Dharmadam, Amrita T. V, Kozhikode**

Deepak Dharmadam has got 14 years media experience. Worked in both print and visual media. Now he is working as Bureau Chief of Amrita TV, Calicut. Reported many exclusive political issues and noted human interested, Medical, development stories. Reported many stories relating Energy crisis at Kerala. Within the age 30 years got many well known Media Awards. Considering his involvement in audio-visual reporting on Energy sectors and his efforts in promoting Energy conservation activities, he has been selected for the year's Best performance award.

**Commendation Certificate**

**Jayan  
Komath. Amrita TV, Kozhikode**

Mr. Jayan Komath, a committed TV journalist of Amrita TV News division who specialized in Rural Affairs brought out so many rural issues in to public attention. The most impactful among this was the reality report on the remote village of Idukki- Edamalakkudy..His

adventurous reporting resulted in the government announcing Edamalakkudy as a panchayath and provided basic amenities. At present he is the Regional Bureau Head of Amrita TV , Calicut.

Considering his involvement in reporting on Energy sectors and his efforts in Energy conservation activities, he has been selected for the year's commendation Certificate.

#### **4. SMALL SCALE ENERGY CONSUMERS - Citation, Plaque, Rs 10,000/-**

##### **Best Performance Award**

**Kalady Rice Millers Consortium Pvt Ltd, Kalady, Eranakulam.**

Kalady Rice Millers Consortium has been conferred the award considering their all-round performance and consistency in Energy Conservation measures. They were able to achieve significant reduction in overall energy levels by constant monitoring and achieving set targets. Reduction in Specific Energy levels was achieved through their continuous efforts at various levels

Some of their Energy saving measures are

- Rice Bran Oil Extraction Plant At Mattoor Kalady
- Experimental High Yield Rice Cultivation Project
- Automate/optimize boiler blow down.
- Recover boiler blow down heat to warm the back-up boiler
- Testing lab for research and development.

**Commendation Certificate  
Escapade Resorts Pvt Ltd, Alapuzha**

Some of the energy saving measures adopted are :

- ▶▶ Power factor improvement
- ▶▶ Rain water harvesting
- ▶▶ Installation of solar cooker and water heaters
- ▶▶ Introduction of Electric Scooter & Bicycles for staffs
- ▶▶ Introduction of Methane gas instead of LPG for cooking
- ▶▶ Constituted an energy conservation cell, which is very active

#### **5. NON-PROFIT ORGANISATION - Citation, Plaque, Rs 10,000/-**

**Best Performance Award  
Thiruvananthapuram**

**BioTech,**

BIOTECH has developed different models of waste treatment plants to generate cooking gas and also electricity from waste, through research and development by the application of various technologies. Installed 22,000 Nos. of domestic waste treatment plants, 200 institutional plants and 52 electricity generation plants in different houses, institutions and Panchayaths in Kerala and outside.

Some of the energy conservation activities that helped them to achieve this award are.

- Installation of Biogas plants.

- Installation of waste treatment energy plants.
- Propaganda of publicity through Television, Newspapers etc.

## **NON-PROFIT ORGANISATION**

### **Commendation AWARE, Kozhikode.**

Within a short span of time, they have constructed and commissioned 250 various types of Ecosan Biogas plants and over 850 water pumping systems/micro irrigation systems all over south India.

Considering the outstanding performance of AWARE in energy conservation, they have been selected for this year's commendation Certificate

Some of the energy saving measures adopted are :

- Installation of Biogas plants in various corporation and municipalities
- Installation of waste treatment energy plants in various markets.

### **6. RESEARCH AND INNOVATION - Citation, Plaque, Rs 10,000/-**

#### **BEST PERFORMANCE AWARD**

#### **Vijayakurup. S, Alappuzha.**

Shri Vijaya kurup, Retail manager, BSNL, is residing at Vivek palace, Alappuzha. He invented a cycle water pump, which pumps water without using electricity. The pump consists of bicycle which is set in such a way that the back wheel of the cycle rotates the center shaft of the pump thereby pumping water to heights. By modifying the pump, it can be used in boats. The pump is boon for farmers and domestic consumers where electricity access is not available.

Shri Vijaya kurup has been conferred the award considering his activities in energy efficiency and conservation both in professional and practical field.

### **Commendation Certificate Sustenergy foundation, Kottayam**

Sustenergy Foundation is an organization, initiated for conducting research and development studies in energy efficiency and management with an aim to provide sustainable solutions to organizations. Founded by Mr. Jayakumar.R - An energy conservationist has conducted several workshops and awareness sessions for promoting energy conservation in the State of Kerala. Our first research objective is to design and develop a methodology for sustainable energy conservation in organizations especially industries which provides sustainable reduction in specific energy consumption through cost effective measures.

Some of the energy conservation activities are.

- Development of Sustenergy Pyramid TM – Integrated Energy Management system for sustainable energy conservation.
- Energy conservation audit and implementation support to organization which doesn't have any title.
- Technical advice and support for an SSI unit from design to operation to achieve 12% savings compared to similar capacity units.
- Energy conservation initiatives in Temples to improve energy efficiency and promote awareness by sensitizing energy conservation through divine values

## **7. INDIVIDUALS – Citation, Plaque, Rs 10,000/-**

### **BEST PERFORMANCE AWARD**

**Sri. Saji Prasad. G. C, Vamanapuram, Thiruvananthapuram**

Shri Saji Prasad.G.C is the President of Energy Conservation Club, Mulamana VHSS which was started in the year 2004 for promoting Energy Conservation Activities among students and public. He conducted many competitions among students to increase importance of energy conservation. Production units for manufacturing energy efficient devices like electronic chokes and CFL's were also started by him. He distributed CFLs to students in the schools. He has taken classes on Energy Conservation along with EMC for the public. Many exhibitions were conducted both on his behalf and on behalf of EMC, educating people.

Considering his involvement and substantial energy demand reduction and energy saving realized, he has been selected for this year's award.

### **BEST PERFORMANCE AWARD**

**Sri. T.T. Paulose, Eranakulam**

Shri T.T. Paulose is working as a Teacher in MES eastern school Eloor. He is the project co-ordinator of Paristhidhi Urja Samrakshana Sena. The sena was formed with the support of Eloor Grama panchayath for promoting Energy Conservation Activities among students and public with a strength of 300 students and active support of parents and teachers of the school. Energy audits and distribution of CFL's were done in about 1800 houses under his guidance. He has taken classes on energy conservation and has conducted many exhibitions for propagating the importance of energy conservation among public .

Considering his involvement and substantial energy demand reduction and energy saving realized, he has been selected for this year's award.

## **INDIVIDUALS**

### **Commendation Certificate Shri Binu K John, Thiruvananthapuram**

Shri Binu K John. is Assistant Librarian of Mar Baselios College of Engineering & Technology, Nalanchira, Trivandrum, , since 09-10-2002. He played a main role in computerization of library , maintaining digital library, and providing e-journal services for students and faculties. He developed a portal Energy Resources for the researchers, students, academicians etc includes collection of links, services, e-journals (Open access

and subscription based), e-books, softwares, applications, database, mailing lists/discussion groups, articles/papers/reports/standards, organisational home pages, thesis / dissertations, educational materials, news, resource guides, bibliographies, institutional repositories, information about seminars/conferences etc.

The portal developed is a ready reference web tool for energy sources.

Considering his efforts in developing such a useful web portal related to energy he has been selected for the year's commendation Certificate.

## **8. BUILDINGS - Citation, Plaque, Rs 10,000/-**

### **BEST PERFORMANCE AWARD**

#### **BSNL Telecom Bhavan, Medical-college, Thiruvananthapuram**

The BSNL building can boast of a variety of energy conservation features, some built in and the rest adopted by design. It has a distinct feature of a double wall envelope, all around, meant to keep the heat ingress always at bay. Least amount of glass area was another built in feature to contain the heat gain, thereby reducing the demand on air conditioning. In other words, 'Green' concept was very much there at the design stage itself for this building.

Some of the energy conservation activities that helped them to achieve this award are.

- Replacement of Central AC Plant with a single energy efficient package AC System of lesser capacity.
- Replacement of Water cooled AC plant with new energy efficient Air cooled PAC plant
- Providing inter locks to stop condensers with compressors
- Providing 1000A rating DC bus bar arrangement to DTS/STR, replacing multiple cables
- Replacement of light fittings with energy efficient one.
- Arrangement of Ventilation for free air flow in power plant room

#### **Commendation Certificate Kottakkal Arya Vaidyasala Ayurveda Hospital & Research Centre. Kochi.**

Considering the outstanding performance of Kottakkal Arya Vaidyasala AH &RC in energy conservation, they have been selected for this year's commendation Certificate. The energy saving measures adopted are;

- 3000 L capacity Solar Water Heater
- Efficient Air Conditioning System (VRF)
- Energy efficient light fittings like CFL, LED, etc Rain water harvesting, rainwater filtration and storage

## **9. MANUFACTURES & DEALERS OF ENERGY EFFICIENT EQUIPMENTS**

**Commendation Certificate**  
**V- guard Industries, Cochin**

V-guard has sold out large number of star labeled solar water heater and 3 Phase mono-block pump set this year. Considering the manufacture and trading of star labeled equipments in state V –guard has been selected for the year's commendation Certificate.

## Special category

### 10. ENERGY EFFICIENT AND ECO FRIENDLY BUILDING DESIGNER/DEVELOPER

No applicants

### 11. ENERGY CLINIC VOLUNTEERS Citation, Plaque, Rs 5,000/-

#### BEST PERFORMANCE AWARD

- Ammini Subramaniam, Kottayam
- T. K Gourikutty, Kottayam

Energy Clinic is a unique programme of EMC in energy conservation activities in domestic sectors through women change agents. Through awareness, 10-15 % of total energy can be saved. The energy clinic is to provide valuable information to the rural population on energy conservation, energy efficient equipments, right methods of energy use to reduce wastage etc. At present there are 206 trained women volunteers in the State In connection with the Energy Conservation Month activities, best energy clinic volunteers are awarded prizes based on their performance.

Considering the involvement and substantial energy demand reduction and energy saving realized by efforts through Energy Clinic the following energy clinic volunteers are selected for this year's award are

- Ammini Subramaniam
- T. K Gourikutty

**Commendation Certificate**

**Thresiamma Baby,**  
**Alappuzha**

Considering her involvement and substantial energy demand reduction and energy saving realized by efforts through Energy Clinic she have been selected for this year's commendation Certificate

### 12. FLEET OPERATORS - Citation, Plaque, Rs 5,000/-

#### BEST PERFORMANCE AWARD

**Kannan Devan Hills Plantation Company Pvt Ltd, Munnar  
Idukki**

Kannan Devan Hills Plantations Company Private Limited has been conferred the award considering their all-round performance and consistency in Energy Conservation measures in fleet .

Some of the energy conservation activities that helped them to achieve this award are.

- Retrofitting of IDI engines with new generation DI engines.
- Reduced specific fuel consumption from 4.69 KMPL to 6.32 KMPL
- Personnel of Energy Management Cell trained all drivers / staff in-charge of vehicles, management personnel etc.
- Tractor health check up
- Used all participatory management forums to create awareness

**13. CERTIFIED ENERGY MANAGER. - Citation, Plaque, Rs 5,000/-**

**BEST PERFORMANCE AWARD  
Vijayakumaran .K. M, Kasaragod**

Shri. Vijayakumaran .K. M ,Dairy Manager, Kasaragod Dairy and Certified Energy Auditor with 28 Yrs plus experience in Dairy, Maintenance, Projects, Materials Management, Dairy Management. In his personal capacity as certified energy auditor, he has made following remarkable contributions.

- Successfully completed many expansion projects in the Dairies across Malabar Milk Union .
- Implemented Waste Heat recovery systems of the tune of 400 TR in all the Refrigeration Plants
- Successfully implemented energy conservation activities and recognized by the Govt of Kerala, by Energy Conservation Awards since 2005 ( 3 Dairies), 2006 & 2007 for all the Dairy plants.
- Imparting training to Officers, engineers, College students on conservation & environment issues.

Considering his involvement as Energy Auditor, he has been selected for this year's award

**14. CERTIFIED ENERGY AUDITOR**

**Commendation Certificate  
Shri Shanavaz. K. M, Ernakulam**

Shri Shanavaz.K.M, is Assistant Director Kerala State Productivity Council (KSPC)( established in 1959 ) and a certified energy auditor. In his personal capacity as certified energy auditor, he has made following remarkable contributions.

- Conducted Energy audits at service organisations, process/engineering industries, commercial buildings etc
- Conducted several awareness programs on Energy conservation.
- Undergone training program and participated in seminars on Energy Conservation and Efficiency.

Considering his overall performance he has been selected for the year's commendation Certificate.

#### **15. EDUCATIONAL INSTITUTION**

**Commendation Certificate**  
**St. Joseph's College of Engineering & Technology, Pala, Kottayam.**

Some of the energy saving measures that helped them to achieve this commendation Certificate are.

- Creating awareness among the students about the need for Energy Conservation
- Energy Auditing & Consultancy
- Power Squad Formation
- Promoting Energy Efficient Research Projects.

#### **16. BEST SUGGESTION FOR ENERGY CONSERVATION/ENERGY EFFICIENCY**

**No Award**