

KERALA STATE ENERGY CONSERVATION AWARD - 2005

In its efforts to encourage energy conservation activities in the State, Government of Kerala has instituted 7 Energy Conservation Awards. The Energy Management Centre operates this scheme. Applications are invited to apply for the award pertaining to the financial year 2004 – 2005 (Award 2005) in 7 different categories. Award winners in the categories – Small scale enterprises, Non-profit Organisations, Research & Innovation and Individuals will receive a cash prize of Rs. 10,000/- also.

Category 1: Large scale enterprises

(Including large scale industries, hotels, hospitals, public buildings, manufactures/traders & dealers of energy equipment with a total annual energy bill of over Rs 150 Lakhs including fuel and electricity, wherever applicable or with a fixed Crores)

Category 2: Medium scale enterprises

(Including medium scale industries, hotels, hospitals, manufacturers/traders & dealers of energy equipment, etc. – the annual energy bill within Rs 30 Lakhs to Rs 150 Lakhs including fuel and electricity, wherever applicable or with a fixed capital of 1-10 Crores)

Category 3: Small scale enterprises

(Including small-scale industries, hotels, hospitals, manufacturers/traders & dealers of energy equipment, etc. – those with an annual energy bill of less than Rs 30 Lakhs including fuel and electricity, wherever applicable or with a fixed capital of less than 10 Crores)

Category 4: Non-profit organizations

(Including Local Bodies, NGOs and organisations involved in promotion/research and development efforts in energy conservation)

Category 5: Research & Innovation:

(Organisations and Individuals involved in Research & Innovation efforts in energy conservation, efficiency improvement, etc. are eligible to apply).

Category 6: Individuals (Journalists, media persons, Writers, etc., who contributed in the field of energy conservation)

Category 7: Public Buildings (Buildings including building complex of public organisations/ institutions, etc., who have implemented energy conservation/ efficiency programs)

The qualifying period for the award is the previous financial year from 1st April 2004 to 31st March 2005. However, as conservation efforts require longer period for implementation in some cases, the work in this direction for the immediate past 3 financial years will also be reviewed. In case of enterprises the basis would be the percentage energy savings by deliberate efforts. Weightage will be given for technology used, measures such as house keeping, interfuel substitution, change over to sustainable practices, replicability, structured approach, innovation, etc. While for non-profit organizations, formulation of promotional schemes, implementation of energy conservation activities, peoples participation, research activities, etc would be the criteria. Research and Innovation would be assessed based on their merit of proposal, results achieved,

scope for replication etc. In the case of individuals, the assessment would be based on outstanding nature of their activities.

Evaluation will be conducted by scrutiny of information gathered, later supplemented by visit to the institutions, if required.

Awards will be given away at a public function on 14th December 2005, the National Energy Conservation Day. Application form can be obtained in person or by post from the Energy Management Centre, Thycaud P.O., Thiruvananthapuram. Category for which the application form is required must be clearly indicated. It can also be downloaded from the EMC website <http://www.keralaenergy.gov.in/>. The duly filled in application should reach the **Director, Energy Management Centre, Thycaud P.O., Thiruvananthapuram 695 014 before 15 November 2005** (Tel: 0471-2323329, Fax: 0471 – 2323342; e-mail: emck@keralaenergy.gov.in or emck@vsnl.com)

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DIRECTOR

Application and Instructions in MS-Word Format (ZIP file)	Application and Instructions Instructions inPDF format (ZIP file)
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RESULTS

AWARDS

CATEGORY I: - LARGE SCALE ENTERPRISES

Result	Comments
Le Meridien Resort & Convention Centre, Kochi	<ul style="list-style-type: none"> • By regular, effective and strict monitoring of energy consumption and costs in almost all the utilities in the facility; • By implementing various energy efficiency measures like Building Energy Management System, Boiler feed water heating using waste exhaust heat, effective condensate recovery, rain water harvesting, optimisation of chilled water system, etc.; • By periodic awareness campaigns for the workers and staff and with regular training programs on energy conservation and better practices; • By having a good energy management organisation set-up with Chief Engineer as the Co-ordinator , <p>they were able to consistently reduce the annual specific energy cost – expressed as percentage of turnover - from 14% in 2003-04 to 11% in 2004-05, a reduction of about</p>

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18%.

Considering these, this year 's AWARD is conferred to Le Meridien .

CATEGORY II: - MEDIUM SCALE ENTERPRISES

<p>MILMA Kozhikode Dairy</p>	<p>The first dairy in Kerala certified with ISO 9001-2004 certification, has an Energy Policy and an Energy Conservation Committee with a Corporate Energy Manager at their Malabar Regional Office. Training programs being conducted for technicians at Corporate Level. Major efforts are: -</p> <ul style="list-style-type: none"> • Replacement of 4 numbers of pneumatic filling machines with mechanical ones resulting in an annual savings of over Rs 2 lakhs. • Replacement of old condenser pumps with high efficient ones • Water conservation in pouch filling, etc <p>Could achieve an annual savings of 10% in their specific energy consumption.</p> <p>Considering these achievements of a co-operative sector unit, this year 's Award is given to them.</p>
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CATEGORY III: - SMALL SCALE ENTERPRISES

<p>Ammini Energy Systems Pvt. Ltd., Trivandrum</p>	<p>Considering their persistent efforts in educating the prospective clients and implementing CFL street lights worth Rs 1.76 crores in 2004-05, and innovating on the product with better luminary, capability to work under wide voltage variation, it has decided to give them this year 's Award.</p>
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CATEGORY IV: - NON PROFIT ORGANISATIONS

<p>Jyothi Biogas and Rural Social Service Centre, Trivandrum</p>	<p>Taking into account the activities of this NGO, which is licensed by the Agricultural Department of Kerala to carry out construction of Biogas Plants since 1999, like installation of</p> <ul style="list-style-type: none"> ⇒ Deena Bandhu models from 2 m³ - 25 m³ in houses & other facilities ⇒ 15 m³ Plant at KTDC Hotel Samudra, Kovalam during 2004 April ⇒ 25 m³ plant at slaughter house premises of Thodupuzha Municipality under the Kerala Development Plan 2004-2005; electricity generated for lighting 50 CFLs of 15 W
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	they are given Award in this category.
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CATEGORY V: - RESEARCH & INNOVATIONS

<p>Dr Shaji James P, Kelappaji College of Agricultural Engg. & Technology, Tavanur</p>	<p>Considering the consistent efforts of this researcher in:</p> <ul style="list-style-type: none"> • Developing a ‘Tractor operated Helical Blade Puddler’ an energy saving (30-35%) implement for wet land puddling in paddy cultivation (RAIDCO has initiated steps to manufacture this during 2005) • Carrying out research in bio diesel production from vegetable oils including rubber seed oil and the use of them in engines, <p>it has been decided to give him the Award.</p>
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CATEGORY VI: - INDIVIDUALS

<p>Soman. K, Thrissur</p>	<p>Evaluating his extent of continued involvement in mass awareness campaigns for promotion of energy conservation in domestic sector through workshops, cycle rallies, paintings, etc, as a voluntary worker of Energy Conservation Society and starting 8 Energy Conservation Clubs in ITIs and ITCs, it has been decided to give him this year’s Award in this category.</p>
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CATEGORY VII: - PUBLIC BUILDINGS

<p><i>Award</i></p>	<p>Nil</p>
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COMMENDATION CERTIFICATES 2005

CATEGORY I: - LARGE SCALE ENTERPRISES

<p>Hindustan Newsprint Limited, Kottayam</p>	<p>With a written Energy Policy and energy management set-up HNL could reduce their specific electricity consumption from 1855 kWh/ton in 2003-04 to 1847 kWh/ton in 2004-05. Similarly specific thermal energy consumption was brought down from 5.10 to 4.12 million kcal/ton. These were made possible through some of the following measures.</p>
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AND	<ul style="list-style-type: none"> ❑ Introduction of Variable Frequency Drives in about 41 pumps & 4 fans ❑ Replacement a 400 kW and 110 kW old pumps with energy efficient 250 kW and 90 kW respectively ❑ Operational improvements and process optimisation ❑ Thermal insulation, application of renewable energy, etc <p>Taking these into account the Committee finds that the work of HNL is commendable and qualifies for Award. However, considering the clause that an organisation is not eligible to receive Award consecutively for 3 years and HNL having received the Award 2004, it has been decided to give Commendation Certificate to HNL</p>
Arya Vaidya Sala, Kottakal	<p>Considering their keen commitment and efforts to reduce their energy consumption year-by-year through changeover to energy efficient practices ensuring workers' participation, it has been decided to give Commendation Certificate to Arya Vaidya Sala.</p> <p>Some of their efforts are: -</p> <ul style="list-style-type: none"> • Installing capacitors at load centres for improving p.f & APFC Panel • Insulated feed water tank & Ball Float trap in place of TD Traps • Insulation to condensate lines and complete recovery of condensate • Installing energy efficient tube lights • Replacing old cooling tower with lower HP high efficiency FRP tower.

CATEGORY II: - MEDIUM SCALE ENTERPRISES

MILMA Palakkad Dairy	<p>Taking into account the efforts of this unit in reducing their specific energy consumption by more than 5% by implementing the following measures, with the top management commitment – having an energy policy in place with a Corporate Energy Manager and Energy Conservation Committee, it has been decided to give Commendation Certificate.</p> <ul style="list-style-type: none"> • Replacement of pneumatic filling machines with mechanical ones • Optimisation of process temperature • Load management in refrigeration system and • Heat recovery from process
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CATEGORY III: - SMALL SCALE ENTERPRISES

<p>MILMA, Kasargode Diary</p>	<p>Implementation of the following measures could reduce their specific electricity consumption from 37.42 kWh/lit in 2003-04 to 37.18 kWh/lit in 2004-05.</p> <ul style="list-style-type: none"> • Replacement of jet pump with submersible pump • Reduction of cut-off pressure in air compressors • Load staggering to reduce peak demand • Translucent roof for natural lighting <p>Considering the above and also the top management commitment – having an energy policy in place with a Corporate Energy Manager and Energy Conservation Committee, it has been decided to give Commendation Certificate</p>
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CATEGORY IV: - NON PROFIT ORGANISATIONS

<p>Sreetech, Trivandrum</p>	<p>As an approved service provider (construction of biogas plants) of Clean Kerala Mission, they were successful in installing a number of biogas plants in different institutions in the State. In the year, 2004-05, they have installed a 20 m³ fixed dome night soil based plant in IMS Dhyana Bhavan, Paravoor, Alappuzha . Considering their efforts to propagate and install night soil based plants, it has been decided to give Commendation Certificate.</p>
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CATEGORY V: - RESEARCH & INNOVATIONS

<p>Omega Electronics, Trivandrum</p>	<p>Taking into account their efforts in continuously innovating and improving their product designs - solar lantern, solar charge controllers – and adopting an innovative concept of selecting and training personnel from the tribal villages as “Authorized Service Personnel ” for the upkeep and maintenance of solar systems installed under the village electrification scheme, this year ’s Commendation Certificate is given to them.</p>
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CATEGORY VI: - INDIVIDUALS

<p>Balan P.M, Kozhikode</p>	<p>Taking into account his efforts in popularisation , innovation of the ‘Parishad Aduppu ’ and installation of such improved chulahs since the last 19 years, and having installed a number of community chulahs in hotels, ayurvedic medicine manufacturers, schools, Anganwadis, houses, etc., Commendation Certificate is given to him.</p>
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CATEGORY VII: - PUBLIC BUILDINGS

<p>Amrita Institute of</p>	<p>Considering their efforts in looking for energy efficiency options while purchasing</p>
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Medical Sciences, Kochi

machineries for this fairly new installation, and implementing some energy conservation measures like reducing capacity of a few number of Air-handling unit motors, removal of unnecessary fluorescent tubes, impeller trimming of chiller pumps, etc., Commendation Certificate has been given to them.