

**ENERGY MANAGEMENT
CENTRE - KERALA**

Department of Power
Government of Kerala



**ENERGY EFFICIENCY
IN ALL WALKS
OF LIFE**

FROM LAMPS TO BOILERS

WEBINAR SERIES

BY

ENERGY MANAGEMENT INSTITUTE, EMC

From 5th June 2020 (World Environment Day)

To 22th March 2021 (World Water Day)



പിണറായി വിജയൻ
മുഖ്യമന്ത്രി



സെക്രട്ടേറിയറ്റ്
തിരുവനന്തപുരം-695 001

കേരള സർക്കാർ

നം.412/പ്രസ്/സി.എം.ഒ/2020.

മെയ് 25, 2020.

സന്ദേശം



Sri. Pinarayi Vijayan
Hon. Chief Minister of
Kerala

ഊർജ്ജ കാര്യക്ഷമത സംബന്ധിച്ച് ജനങ്ങളിൽ അവബോധം സൃഷ്ടിക്കുന്നതിനായി എനർജി മാനേജ്മെന്റ് സെന്റർ നടത്തിവരുന്ന പരിപാടികൾ ശ്രദ്ധേയമാണ്.

കോവിഡ് മഹാമാരി സൃഷ്ടിച്ച പുതിയ സാഹചര്യത്തിൽ ജനങ്ങൾ ഒത്തുകൂടുന്ന ബോധവൽക്കരണ പരിശീലന പരിപാടികൾ സംഘടിപ്പിക്കുക അസാധ്യമാണ്. അതിനെ മറികടക്കുന്നതിനായി വെബിനാർ രൂപത്തിൽ ഓൺലൈൻ പരിശീലന പരിപാടികൾ സംഘടിപ്പിക്കാൻ എനർജി മാനേജ്മെന്റ് സെന്റർ തീരുമാനിച്ചത് ഉചിതമായി.

ഊർജ്ജസംരക്ഷണ രംഗത്തെ പുത്തൻ സാങ്കേതികവിദ്യകൾ പ്രയോഗിക്കുവാൻ സമസ്ത മേഖലകളിലുള്ളവരെയും പ്രാപ്തരാക്കുവാൻ സഹായിക്കുന്നവിധത്തിലാകും പരിശീലന പരിപാടികൾ എന്ന് കരുതുന്നു. ഈ സംരംഭത്തിന് എല്ലാ ഭാവുകങ്ങളും നേരുന്നു.

പിണറായി വിജയൻ



Govt. of Kerala



Energy efficiency in **REBUILD KERALA**

WEBINAR ON

Energy Efficiency from Design Stage

On World Environment Day 5th June 2020
10.30am – 12.00pm
Energy Management Institute, EMC-Kerala

Resource Persons

Introduction remarks – Dr. R. Harikumar, Director (i/c), EMC Kerala
Design for Energy Efficiency – Dr. J. Nagesh Kumar, Former Director, NPC

Key Takeaways

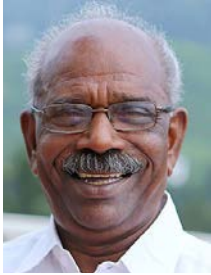
Energy efficiency from design stage
Energy efficiency practices to be carried out in an enterprise
Energy efficiency considerations for procurement
Selection of process and equipment



For registration
scan this QR code



For enquiries: Mr. Rajeev K R, ET-B, +91 8547990950



Sri. M. M. Mani
Hon. Minister of Electricity
Govt. of Kerala

കോവിഡ്-19 ലോകമാകെ ഗുരുതരമായ പ്രത്യാഘാതമാണ് സൃഷ്ടിച്ചിട്ടുള്ളത്. കേരളത്തേയും ഇത് സാരമായ രീതിയിൽ ബാധിച്ചു. സാമൂഹ്യജീവിതത്തിൽ പല പുതിയ ചിട്ടകളും രീതികളും കൂടിയേതീരൂ എന്ന അവസ്ഥ ഉണ്ടായിട്ടുണ്ട്. ശാരീരിക അകലം പാലിക്കുന്നതടക്കം രോഗവ്യാപനം തടയുന്നതിന് കൃത്യമായ നടപടികൾ ഉറപ്പുവരുത്തി മാത്രമേ മുന്നോട്ടുപോകാൻ കഴിയുകയുള്ളൂ. ഊർജ്ജ രംഗത്തും വളരെയധികം മാറ്റങ്ങൾ ഇതു മൂലം ആവശ്യമായിരിക്കുകയാണ്.

പൊതുജനങ്ങൾ ഒത്തുകൂടുന്നതരത്തിൽ യോഗങ്ങളും, പരിശീലന ബോധവൽക്കരണ പരിപാടികളും നടത്തുവാൻ കഴിയാത്ത സാഹചര്യത്തിൽ എനർജി മാനേജ്മെന്റ് സെന്റർ അതിന്റെ പരിശീലന ബോധവൽക്കരണ പരിപാടികൾ ഓൺലൈനായി വെബിനാർ രൂപത്തിൽ നടത്തുവാനാണ് തീരുമാനിച്ചിട്ടുള്ളത്. ഇത് ദീർഘവീക്ഷണത്തോടുകൂടിയുള്ള തീരുമാനമാണ്. ആസൂത്രണം ചെയ്തിട്ടുള്ള വെബിനാർ പരമ്പരയിൽ ഊർജ്ജത്തിന്റെ, കാര്യക്ഷമമായ ഉപയോഗം മുൻനിർത്തിയുള്ള അവതരണങ്ങളും ഫലപ്രദമായ ചർച്ചകളും നടക്കുമെന്ന് പ്രതീക്ഷിക്കുകയാണ്.

നൂതനമാർഗ്ഗങ്ങൾ അവലംബിച്ചുകൊണ്ട് തങ്ങളുടെ പ്രവർത്തനങ്ങൾ മുന്നോട്ടുകോണ്ടുപോകാൻ തീരുമാനിച്ച എനർജി മാനേജ്മെന്റ് സെന്ററിനെ അഭിനന്ദിക്കുന്നു. പരിപാടിക്ക് എല്ലാവിധ ആശംസകളും നേരുന്നു.

- എം. എം. മണി



Energy
Management
Centre
Kerala



Shri. E. P. Jayarajan
Hon. Minister for Industries
Sports and Youth Affairs

WEBINAR ON

Energy Conservation in Industrial Sector

Sessions handled by experts in energy sector

Key Takeaways

- Energy efficiency from design stage
- Energy efficiency practices to be carried out in an enterprise
- Energy efficiency consideration for procurement
- Selection of process and equipment



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Energy Management Centre Kerala

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Message



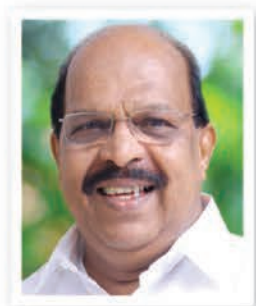
Sri. Abhay Bakre
Director General
Bureau of Energy Efficiency

Energy is an essential input to the socio-economic growth and development. The efficient use of energy resource and its conservation can make a tremendous impact on energy conservation in our country. Energy Management Centre - Kerala, State Designated Agency of Bureau of Energy Efficiency emphasize, more than ever the need for reduction in energy intensity and enhancing energy efficiency. The efficient use of energy resources and their conservation assumes tremendous significance and are essential for curtailment of wasteful consumption nourishing sustainable development. Energy Conservation activities for Kerala State and the effectiveness of EMC's work has been recognised by the Government of India on several occasions.

This year, the world is facing an unprecedented COVID-19 pandemic which has indeed brought some never seen before challenges in our daily life. In this short span of time, considering the social distancing to combat this pandemic, EMC has come up with a new online platform to conduct webinars on various energy related sessions from June 5th - the World Environment Day. I am sure that with these measures EMC will enable dissemination of energy conservation knowhow to the target audience adequately.

I wish this new initiative of EMC a great success.

Abhay Bakre 28.5.20
(Abhay Bakre)



Energy
Management
Centre
Kerala

Monthly batches on
second week of each month

STARTING
FROM
8th JUNE
2020

Shri. G. Sudhakaran

Hon. Minister for Public Works Department
and Registration

WEBINAR ON

ECBC Compliance Check through Energy Simulation

Sessions handled by ECBC experts

Key Takeaways

Awareness on ECBC and KSECBC Rules 2017
ECBC compliance approaches
ECBC compliance checking using simulation software



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Message



Dr. B. Ashok IAS
Secretary to the Govt.
Department of Power,
Govt. of Kerala

Energy is the basic necessity of our life and we can't imagine a world that is running out of energy. Energy Management Centre - Kerala (EMC) has always worked as the torch bearer of Energy Conservation activities for Kerala state and the effectiveness of EMC's work has been recognised by the Government of India on several occasions.

The ongoing COVID 19 pandemic situation has brought some never seen before challenges in our day-to-day affairs. I am very happy to know that EMC has geared up to this challenge in a short period and has come up with this novel option of utilizing the online platform to conduct a series of webinars meeting the social distancing norms. This will keep the chain of knowledge dissemination without break.

Keeping abreast with the latest technology is the best way to move forward in a situation like this so that the policy makers, practising engineers and general public can come up with the right decisions at the right time. I am sure that it will benefit people from all walks of life.

I wish the venture success and all the very best wishes to the Director, EMC and staff driving it.

- Dr. B. Ashok IAS
Secretary
Department of Power
Government of Kerala



Energy
Management
Centre
Kerala

Adv. V. S. Sunilkumar
Hon. Minister for Agriculture

Monthly batches on
4th Thursday of each month
10.30 am - 12.00 pm

STARTING
FROM
25th JUNE
2020

WEBINAR ON

Energy Efficiency in Agriculture and Homesteads

Sessions handled by experts in energy & agriculture sectors

Key Takeaways

Energy efficiency in agricultural sector
Energy efficiency parameters of agriculture machinery
Energy efficiency improvement strategies



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**Industrial
Electrification**



Energy
Management
Centre
Kerala



Shri. A. K. Saseendran
Hon. Minister for Transport

WEBINAR ON

Energy Conservation in Transport Sector

Presentation by
Shri. Suresh Kumar M
(Petroleum Conservation and Research Association)



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Energy
Management
Centre
Kerala



Dr. K. T. Jaleel

Hon. Minister for Higher Education
Minority Welfare, Hajj and Wakf

IoT Technologies in Energy Sector

Workshop for Students

Presentation
Amit Chadha, Febin K. V. M. & Aravind V. S.

Invites project proposals from students

Key Takeaways

Understanding the concept of IoT
Importance of IoT in energy management
Idea generation and brainstorming for students



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Consumer Rights- Standards and Labelling

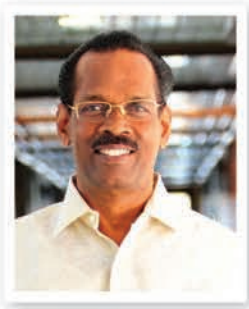
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Energy Efficient Pumping System



Energy
Management
Centre
Kerala



Shri. T. P. Ramakrishnan
Hon. Minister for Labour and Excise

Certificate course on

Skill Development for Operators and Technicians

Sessions handled by experts in energy sector

Key Takeaways

Energy Efficient Operational Practices
Knowledge enrichment
Greener production process
Case Studies



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PROGRAM CALENDER

2020 JUNE

05th
FRIDAY

Energy Efficiency from Design Stage

Dr. J. Nagesh Kumar

Key Takeaways of Presentation

- Energy efficiency from design stage
- Energy efficiency practices to be carried out in an enterprise
- Energy efficiency consideration for procurement
- Selection of process and equipment

2020 JUNE

08th-16th
7 WORKING DAYS

ECBC compliance check through Energy Simulation

Bacth - 1

Samhita M., Mahesh Kumar M

Key Takeaways of Presentation

- Awareness on ECBC and KSECBC Rules 2017
- ECBC compliance approaches
- ECBC compliance checking using simulation software

2020 JUNE

19th
FRIDAY

Energy Auditing and Management in HVAC System

Er. Rajesh Deshpande

Key Takeaways of Presentation

- Energy efficient design interventions
- Operational improvements
- Time of day tariff scheduling
- Best practices

2020 JUNE

20th
SATURDAY

Artificial Intelligence in Energy Management

Mr. Mathew Joseph

Key Takeaways of Presentation

- Energy efficiency and Artificial Intelligence
- AI for building energy management systems
- Energy optimisation in the industrial sector using AI
- AI for municipalities

2020 JUNE

25th
THURSDAY

Energy Efficiency in Agriculture and Homesteads

Dr. Shaji James P

Key Takeaways of Presentation

- Energy efficiency in agricultural sector
- Energy efficiency parameters of agriculture machinery
- Energy efficiency improvement strategies



Energy
Management
Centre
Kerala



Adv. K. Raju

Hon. Minister for Forests
Animal Husbandry, Dairy Development
Milk- Co-operatives and Zoos

WEBINAR ON

Energy Efficiency in Dairy Sector

Key Takeaways

Best practices in dairy sector
Energy audit and case studies



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2020 JULY

03rd

FRIDAY

**Energy Efficiency through ESCO route in Kerala – Series 1
Boiler Efficiency improvement, Waste Heat Recovery, Zero Liquid Discharge**

Dr. M. G. Gharpure

Key Takeaways of Presentation

- ESCO financing models
- Thermal energy optimization
- Waste heat recovery trends
- Zero Liquid Discharge method

2020 JULY

06th-14th

7 WORKING DAYS

**ECBC compliance check through Energy Simulation
Batch - 2**

Mr. Akshay Kumar Gupta and Mr. Kumar Biplab

Key Takeaways of Presentation

- Awareness on ECBC and KSECBC Rules 2017
- ECBC compliance approaches
- ECBC compliance checking using simulation software

2020 JULY

8th

WEDNESDAY

Online discussion with Retailers regarding the sales of Star Labeled Appliances / Equipment

Pre-submission meeting for Empanelment of vendors for Energy Efficient Appliances / Equipment distribution through Urjamithra centres

2020 JULY

17th

FRIDAY

Online discussion meet of EMC Empanelled Energy Auditors

2020 JULY

17th

FRIDAY

Energy Performance Assessment of Chilled Water Systems & Case study

Er. Paraman Radhakrishnan

Key Takeaways of Presentation

- Energy efficiency in chilled water plants
- System optimization and balancing
- Energy performance assessment of chilled water plants
- Case studies

2020 JULY

18th

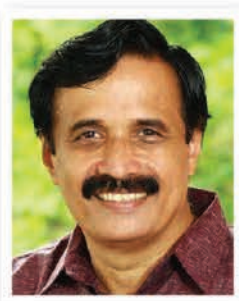
SATURDAY

Energy Conservation in Transport Sector

Er. Suresh Kumar M

Key Takeaways of Presentation

- Behavioural changes in driving
- Optimum fuel efficiency of vehicles
- Factors affecting fuel efficiency



Energy
Management
Centre
Kerala



Prof. C. Raveendranath
Hon. Minister for General Education

WEBINAR ON

Energy Conservation Training for “Sastrarangam” Coordinators

Presentation
Shri. Sandeep K. (Energy Management Centre)

Key Takeaways

Delivering energy efficiency & energy conservation
Domestic energy conservation
Smart Energy Programme



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2020 JULY

21st
TUESDAY

Energy Efficiency In the Built Habitat

Keynote Address: Prof. Rajan Rawal, CEPT University, Ahmedabad

Speakers

1. Ms. Archana Walia, (Former Director of CLASP's India programme)
2. Shri. Sukumar Devotta, (Former Director of National Environmental Engineering Research Institute and member of UNEP Refrigeration Technical Option)

2020 JULY

23rd
THURSDAY

Energy Efficiency in Agricultural Sector

Mr. Ahammed Kabeer

Key Takeaways of Presentation

- Energy - Agriculture nexus
- Indian scenario of agricultural energy consumption
- Energy efficiency and conservation strategies in agricultural sector

2020 JULY

23rd - 26th
4 DAYS

IoT technologies in Energy Sector - Workshop for Students

Er. Suresh Babu, Er. Amit Chadha
Er. Febin K.V.M., Er. Aravind V. S.

Key Takeaways of Presentation

- Understanding the concept of IoT
- Importance of IoT in energy management
- Idea generation and brainstorming session

2020 JULY

28th
TUESDAY

Libraries in Energy awareness program

Shri. Sreeram V.
Chief librarian
Centre for Development Studies
Thiruvananthapuram

2020 JULY

30th
THURSDAY

Go Electric Campaign Series 1 EV Charging Infrastructure in India

Er. N. Mohan

Key Takeaways of Presentation

- EV Charging technologies and infrastructure
- EV Charging terminologies
- EV Charging infrastructure
- Case studies

2020 AUG

01st
SATURDAY

Benefits of Energy Audits & Case study

Dr. J. Nagesh Kumar

Key Takeaways of Presentation

- Benchmarking energy performance
- Energy optimisation
- Energy audit instruments
- Energy audit report preparation



Energy
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Kerala



1st DEC
2020

Smt. K. K. Shailaja

Hon. Minister for Health and Social Welfare

WEBINAR ON

Energy Efficiency in Healthcare Sector

Presentation

Shri. B. V. Suresh Babu (Energy Auditor)

Key Takeaways

Behavioural change and best practices
Energy efficiency for clinical applications
Energy Audits for hospitals and case studies



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2020 AUG

03rd-11th

7 WORKING DAYS

ECBC compliance check through Energy Simulation

Batch - 3

Mr. Ankit Bhalla, Mr. Vevaik Mahajan

Key Takeaways of Presentation

- Awareness on ECBC and KSECBC Rules 2017
- ECBC compliance approaches
- ECBC compliance checking using simulation software

2020 AUG

10th

MONDAY

Certificate Course on Skill Development for Operators and Technicians

Sections handled by sectoral experts

Key Takeaways of Presentation

- Knowledge enhancement
- Energy efficient operation methodologies
- Introduction to new technologies

2020 AUG

12th

WEDNESDAY

Role of Data Analytics in Building Energy Management

ER. Ananthapadmanabhan G. S.

Key Takeaways of Presentation

- Operational Optimization of Centralized Air Conditioning Plant
- Smart Metering and Utilization of Meter Signatures
- Data Analytics in Building Energy Management

2020 AUG

14th

SATURDAY

Energy Efficiency in Air Compressor

Dr. Dharmalingam

Key Takeaways of Presentation

- Capacity and leakage assessment
- Factors affecting efficiency
- Energy saving opportunities

2020 AUG

17th

MONDAY

Energy efficiency in Dairy sector

Er. K. M. Vijayakumar

Key Takeaways of Presentation

- Best practices in dairy sector
- Energy audit and case studies

2020 AUG

21st

FRIDAY

Industrial Energy Efficiency

Dr. Jahangeer K. Abdul Halim

Key Takeaways of Presentation

- Overview of Industry sector energy use
- CO2 emissions by the industrial systems/ equipments
- Energy efficiency in the pharmaceutical industry
- Energy efficiency in the food manufacturing plants



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Kerala



Shri. A. C. Moideen

Hon. Minister for Local Self Governments

WEBINAR ON

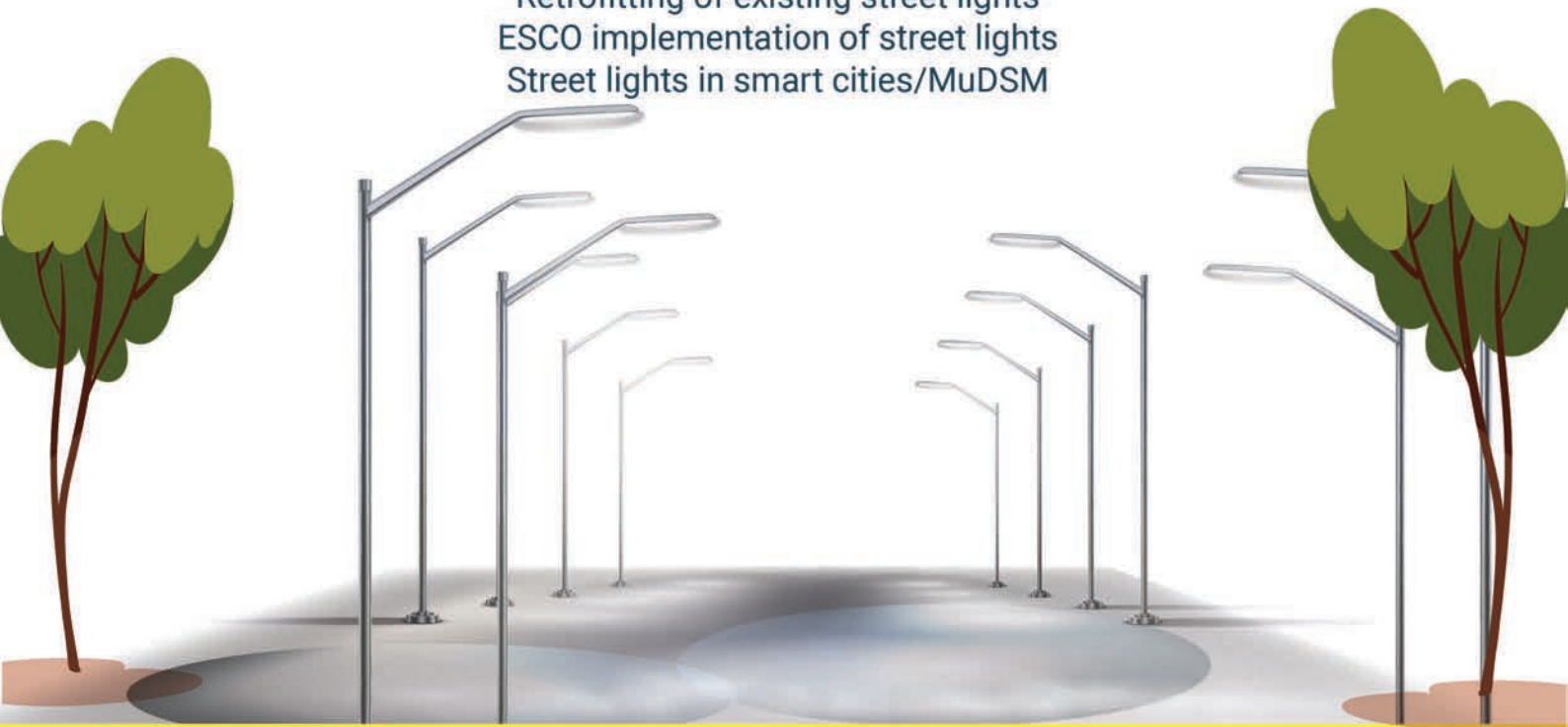
Scope of Energy Efficient Street Lights in LSGDs

Presentation by

Shri. Johnson Daniel (Energy Management Centre)
Er. K. M. Shanavaz (Kerala State Productivity Council)

Key Takeaways

Energy efficient street lighting systems
Retrofitting of existing street lights
ESCO implementation of street lights
Street lights in smart cities/MuDSM



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2020 AUG

25th
TUESDAY

Industrial Electrification

Keynote Address: Ms. Stéphane de la Rue du Can,
Lawrence Berkeley National Laboratory (LBNL)

Speakers

1. Shri. Prosanto Pal (Senior Fellow at Industrial Energy Efficiency Division, TERI)
2. Ms. Charu Lata (Natural Resources Defense Council (NRDC))

2020 AUG

27th
THURSDAY

Energy Efficiency In Post-Harvest Equipment

Dr. K. P. Sudheer

Key Takeaways of Presentation

- Different post harvest equipment
- Energy efficiency parameters of post harvest equipment
- Effective utilization of post harvest equipment

2020 AUG

28th
FRIDAY

Go Electric Campaign Series 2 Moving Towards E-Mobility in Light Motor Vehicles

Mr. Sarath Babu

Key Takeaways of Presentation

- EEV in LMV sector
- Features of Electric Cars
- Switching to Clean Energy
- Energy Economics

2020 SEPT

04th
FRIDAY

Energy Efficiency in Boilers

Er. Suresh Kumar

Key Takeaways of Presentation

- Energy efficient boilers
- IBR definition
- Boiler blow down concepts
- Thermic fluid heaters
- Energy saving opportunities
- Case studies

2020 SEPT

07th-16th
7 WORKING DAYS

ECBC compliance check through Energy Simulation

Batch - 4

Mr. Syed Moazzam Ali and Mr. Jitendra Kumar Vyas

Key Takeaways of Presentation

- Awareness on ECBC and KSECBC Rules 2017
- ECBC compliance approaches
- ECBC compliance checking using simulation software



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Management
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Kerala



Shri. A. K. Balan

Hon. Minister for Welfare of Scheduled Castes,
Scheduled Tribes and Backward Classes,
Law, Culture and Parliamentary Affairs

WEBINAR ON

Energy Conservation Act-2001

Presentation by
Shri. Johnson Daniel (Energy Management Centre)



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2020 SEPT

18th
FRIDAY

ISO 50001 Energy Management Systems

Er. G. Krishnakumar

Key Takeaways of Presentation

- Role of management system in an uncertain world
- Why Energy management system
- Relevance of Energy management system and standard
- Overview and clauses of Energy Management standard ISO 50001
- Implementation steps and caution points
- Benefits of ISO 50001
- Standards supporting energy management system

2020 SEPT

19th
SATURDAY

Challenges in Energy Efficiency in electrical systems and cost reduction

Er. T. Sankaranarayanan

Key Takeaways of Presentation

- Energy efficiency improvement in electrical distribution system
- Power factor improvement
- Capacitor sizing
- Assessment of T&D Efficiency
- Case studies

2020 SEP

21st
MONDAY

Go Electric Campaign Series 3 Moving Towards E-Mobility for Public Transportation

Er. Arun Krishna Gelli

Key Takeaways of Presentation

- EV Landscape in India
- Driving factors to E Mobility
- E-Mobility for public
- EV Charging stations

2020 SEP

22nd
TUESDAY

Water –Energy Nexus

Keynote Address: Dr. Prakash Rao, Lawrence Berkeley National Laboratory (LBNL)

Speakers

1. Dr. Hariharan Chandrashekar (Chairman, Alt. Tech Foundation)
2. Shri. Padu S Padmanabhan (Former Programme Director of (SARI/E) and former Senior Energy Advisor at USAID/India)

2020 SEP

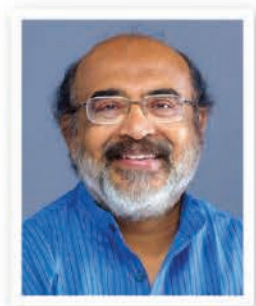
24th
THURSDAY

Energy Efficient Agricultural Pump sets

Mr. Balasubramoniam

Key Takeaways of Presentation

- Energy efficient pump sets in agricultural sector
- Selection of pump sets for Agricultural purposes
- Star labelled agricultural pumps



Energy
Management
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Kerala



Dr. T. M. Thomas Isaac
Hon. Minister for Finance and Coir

WEBINAR ON

Financing Options for Energy Efficiency Projects

Presentation by
Shri. Arun M. R. (Kerala State Financial Corporation)



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2020 SEP

25th
FRIDAY

Energy Conservation Training for "Sastrarangam" Coordinators

Er. Sandeep. K

Key Takeaways of Presentation

- Delivering energy efficiency & energy conservation
- Domestic energy conservation
- Smart Energy Program

2020 OCT

01st
THURSDAY

Scope of Small Hydro Power projects

Er. G. Anil

Key Takeaways of Presentation

- Potential for Small Hydro Power Projects
- Policies and schemes
- Emerging technologies in Small Hydro Power sector

2020 OCT

05th-13th
7 WORKING DAYS

ECBC compliance check through Energy Simulation

Batch - 5

Mr. Arpan Pal and Mrs. Neha Vyas

Key Takeaways of Presentation

- Awareness on ECBC and KSECBC Rules 2017
- ECBC compliance approaches
- ECBC compliance checking using simulation software

2020 OCT

16th
FRIDAY

Energy Efficiency through ESCO route in Kerala - Series 2

Buildings and Commercial Establishments

Er. Milind Chittawar

Key Takeaways of Presentation

- ESCO financing models
- Building energy efficiency
- Retrofit solutions
- EPI reduction and benchmarking

2020 OCT

20th
TUESDAY

Energy Storage for Industrial and Renewable Energy Applications

Keynote Address: Dr Brahmanand Mohanty, ADEME

Key Takeaways of Presentation

1. Dr. Rahul Walawalkar (Founder and Executive Director of India Energy Storage Alliance (IESA))
2. Shri. Murali Arikara (Director of Machani Group)

2020 OCT

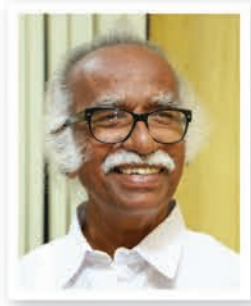
22nd
THURSDAY

Energy Efficiency in Integrated Farming

Dr. Jacob John

Key Takeaways of Presentation

- Modern farming strategies
- Integrated farming and its advantages
- Energy and water efficiency in integrated farming
- Methodologies to improve energy efficiency in Integrated farming



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Kerala



Shri. Ramachandran Kadannappally

Hon. Minister for Ports
Museums, Archaeology and Archives

WEBINAR ON

Sustainable Strategies for Adaptive Reuse of Heritage Buildings

Presentation by
Smt. Ashiqua Sulthana (Tropical Greenovation Cluster)

Key Takeaways

Retrofitting of existing equipment with energy efficient
Morphological Transformation
Energy Efficient Designs of Auditoriums
Occupant comfort systems
Adaptive reuse of Existing Buildings



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2020 OCT

30th
FRIDAY

**Go Electric Campaign Series 4
EV Charging stations – Technologies and Implementation**

Er. Bidyut Mazumder

Key Takeaways of Presentation

- EV Charging protocols and technologies
- EV Charging technologies
- Battery Management
- Case studies

2020 NOV

7th
SATURDAY

Carbon Neutral Concepts & Case Studies

Er. B. V. Suresh Babu

Key Takeaways of Presentation

- Energy & carbon dioxide nexus
- Global warming and climate change
- Case study

2020 NOV

09th-17th
7 WORKING DAYS

**ECBC compliance check through Energy Simulation
Batch - 6**

Mr. Nishesh Jain and Mr. Rana Pratap Poddar

Key Takeaways of Presentation

- Awareness on ECBC and KSECBC Rules 2017
- ECBC compliance approaches
- ECBC compliance checking using simulation software

2020 NOV

20th
FRIDAY

Energy Efficiency using Heat Pump

Er. Bhoovarahan Thirumalai

Key Takeaways of Presentation

- Energy efficiency through heat pump
- Usage of heat pump
- Case studies

2020 NOV

24th
TUESDAY

IOT and Energy Management

Keynote Address: Dr. Rangan Banerjee, IIT Mumbai

Speakers

1. Shri. Aalok A. Deshmukh (GM & Head - Energy Efficiency, Schneider Electric India)
2. Shri. Manish Chakraborty (Founder, Mantrapoynt Inc USA)

2020 NOV

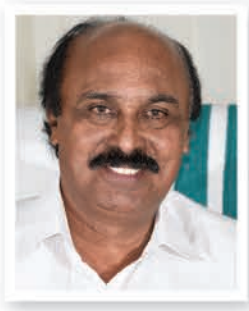
26th
THURSDAY

Effective and Efficient Utilization of Agro Machinery

Dr. Suresh Kumar P. K.

Key Takeaways of Presentation

- Energy efficiency parameters of tractors and tillers
- Optimum efficiency and diesel consumption of agro machinery
- Strategies to reduce energy consumption in agro machinery



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Shri. E. Chandrasekharan
Hon. Minister for Revenue and Housing

WEBINAR ON

Energy Conservation in Residential Building Conceptualisation

Presentation by
Shri. Dinesh Kumar A. N (Energy Management Centre)



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2020 DEC

01st

TUESDAY

Energy Efficiency in Healthcare Sector

Er. B. V. Suresh Babu

Key Takeaways of Presentation

- Behavioral changes and best practices
- Energy efficiency for clinical applications
- Energy audits for hospitals and case studies

2020 DEC

02nd

WEDNESDAY

Scope of Energy Efficient Street lights in LSGDs

Er. Johnson Daniel and Er. K.M. Shanavaz

Key Takeaways of Presentation

- Energy efficient street lighting system
- Retrofitting of existing street lights
- ESCO implementation of street lights
- Street lights in smart cities / MuDSM

2020 DEC

04th

FRIDAY

Energy Efficiency in Fans & Blowers

Er. Suryanarayanan

Key Takeaways of Presentation

- Energy efficiency in fans and blowers
- Factors affecting efficiency
- Flow control strategies
- Performance assessment

2020 DEC

07th-15th

7 WORKING DAYS

ECBC compliance check through Energy Simulation

Batch - 7

ECBC Master trainers & Experts

Key Takeaways of Presentation

- Awareness on ECBC and KSECBC Rules 2017
- ECBC compliance approaches
- ECBC compliance checking using simulation software

2020 DEC

18th

FRIDAY

Energy Efficiency in SME Sector

Er. A. Santhosh

Key Takeaways of Presentation

- Energy efficiency improvement opportunities
- Case study spice extraction industry
- Retrofit and upgradation options

2020 DEC

22nd

TUESDAY

Building energy efficiency for sustainable tomorrow

Keynote Address: Ms. Reshma Singh, LBNL, California

Speakers

1. Shri. Paul Mathew, Lawrence Berkeley National Laboratory (LBNL), California
2. Dr. Brahmanand Mohanty, ADEME, Asian Institute of Technology (AIT), Bangkok



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Kerala



Shri. P. Thilothaman

Hon. Minister for Food, Civil Supplies
Consumer Affairs and Legal Metrology

WEBINAR ON

Consumer Rights - Standards and Labelling

Presentation by
Shri. Subhash Babu B. V. (Energy Management Centre)

Key Takeaways

Star labelled Equipment
Benefits of Standards and Labelling
Voluntary and mandatory labelling



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2020 DEC

28th
MONDAY

Water Efficient Irrigation Systems

Dr. K. K. Sathyan

Key Takeaways of Presentation

- Water efficiency in agricultural systems
- Modern irrigation strategies
- Methodologies to reduce water consumption for agricultural purposes

2020 DEC

30th
WEDNESDAY

Go Electric Campaign Series 5 Moving Towards E-Mobility – Light Motor Vehicles

Mr.Nithin

Key Takeaways of Presentation

- EV in LMV sector
- Features of Electric Cars
- Switching to Clean Energy
- Energy Economics

2021 JAN

02nd
SATURDAY

Green Productivity and Integrated Management System

Mr. I. V. Ramesh Kumar

Key Takeaways of Presentation

- Greener production methodologies
- Cost reduction in production sector
- Cleaner production techniques

2021 JAN

05th-12th
7 WORKING DAYS

ECBC compliance check through Energy Simulation Batch - 8

ECBC Master trainers & Experts

Key Takeaways of Presentation

- Awareness on ECBC and KSECBC Rules 2017
- ECBC compliance approaches
- ECBC compliance checking using simulation software

2021 JAN

11th
MONDAY

Panel discussion on 'Elected Representatives and Energy Conservation'

Speakers

Dr. M. P. Prameswaran
Prof. V. K. Damodaran
Prof. (Dr.) R. V. G. Menon
Shri. S. M. Vijayanand

2021 JAN

15th
FRIDAY

Energy Conservation Act - 2001

Er. Johnson Daniel

Key Takeaways of Presentation

- Understanding Energy Conservation Act 2001
- Policies & regulations



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Kerala



Shri. Kadakampally Surendran

Hon. Minister for Co-operation
Tourism and Devaswoms

WEBINAR ON

Sustainable Development in Tourism sector

Presentation by: Shri. Jayan P. P. (C-DAC)

Key Takeaways

Energy efficiency in hospitality sector
Energy audits in hotels and case studies
Fuel switching in House Boats



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2021 JAN

16th

SATURDAY

Energy Efficient Motors

Er. J Srinivasan

Key Takeaways of Presentation

- Optimum utilization of motor system for maximum efficiency
- Upgrading of motor reliability and energy efficiency
- Assessing conditions of all system components and adopting retrofit solutions and
- Adopting best practices for the entire drive train to sustain the benefits accrued from energy efficiency measures

2021 JAN

18th

MONDAY

Finance options for Energy Efficiency projects

Mr. Arun. M. R.

Key Takeaways of Presentation

- Energy efficiency financing schemes
- Soft loan schemes

2021 FEB

06th

FRIDAY

Power Quality improvement in Electrical power systems

Er. R. Chandru

Key Takeaways of Presentation

- Significance of power quality
- Energy loss due to power quality deterioration
- Power quality solutions
- Reactive power management

2021 FEB

15th

MONDAY

Sustainable Strategies for Adaptive reuse of Heritage Buildings

Ar. Ashiqua Sulthana

Key Takeaways of Presentation

- Retrofitting of existing equipment with energy efficient
- Morphological transformation
- Energy efficient designs of auditoriums
- Occupant comfort systems
- Adaptive reuse of existing buildings

2021 FEB

16th

TUESDAY

Energy Conservation in Residential Building Conceptualisation

Er. Dinesh Kumar A. N.

Key Takeaways of Presentation

- Sustainable building design
- Utilisation of new trends in energy conservation
- Green buildings

2021 FEB

20th

SATURDAY

Energy conservation opportunities in existing commercial buildings

Mrs. Ashiqua Sulthana

Key Takeaways of Presentation

- Energy conservation in comfort systems and controls
- Energy conservation in interior and exterior lighting



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Smt. J. Mercykutty Amma

Hon. Minister for Fisheries
Harbour Engineering and Cashew Industry

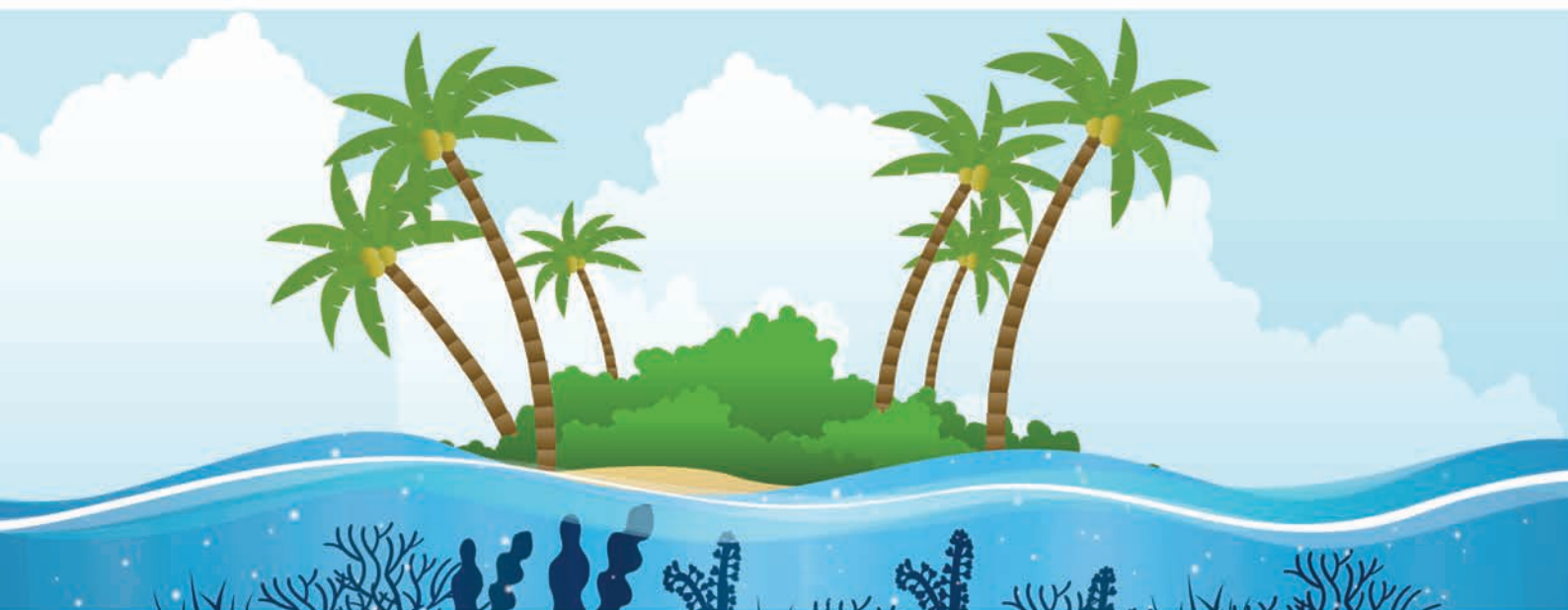
WEBINAR ON

Energy Efficiency in Fisheries Sector

Presentation by: Shri. George Varghese (Energy Auditor)

Key Takeaways

Behavioural change and best practices
Energy efficient equipment
Energy audits and case studies



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2021 FEB

27th

SATURDAY

Consumer Rights in Standards and Labelling

Shri. Subhash Babu B. V.

Key Takeaways of Presentation

- Star labelled Equipment
- Benefits of Standards and Labelling
- Voluntary and mandatory labelling

2021 MARCH

01st

MONDAY

Sustainable Development in Tourism sector

Mr. Jayan P. P.

Key Takeaways of Presentation

- Energy efficiency in hospitality sector
- Energy audits in hotels & case studies
- Fuel switching in house boats

2021 MARCH

05th

FRIDAY

Energy Efficiency in Fisheries Sector

Er. George Varghese

Key Takeaways of Presentation

- Behavioral changes and best practices
- Energy efficient equipment
- Energy audits & case studies

2021 MARCH

06th

SATURDAY

Energy Efficient Building Materials & Equipment

Mr. Naga Venkata Sai Kumar

Key Takeaways of Presentation

- Energy efficient materials and equipment available in the market
- Guidelines for selection of building materials

2021 MARCH

20th

SATURDAY

Energy Efficiency through ESCO route in Kerala - Series 3

Energy Efficient Street Lighting

Er. Anindita Talukdar

Key Takeaways of Presentation

- ESCO financing models
- Recent trends in street lighting
- Energy efficient methods
- Retrofit and upgradation options

2021 MARCH

22nd

MONDAY

Energy Efficient Pumping System

Er. B. V. Suresh Babu

Key Takeaways of Presentation

- Case studies in Kerala Water Authority
- Energy efficiency in pumping system



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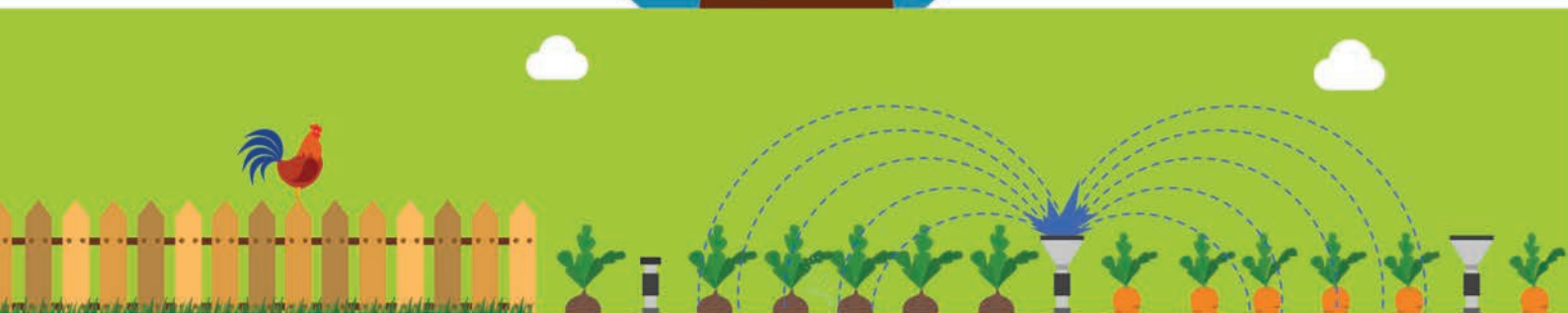


Shri. K. Krishnankutty
Hon. Minister for Water Resources

WEBINAR ON

Energy Efficient Pumping System

Presentation by
Shri. B. V. Suresh Babu (Energy Auditor)



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PROFILE OF SPEAKERS FOR THE WEBINAR



Dr. J. Nagesh Kumar
Former Director
NPC Chennai

Dr. J. Nagesh Kumar is a Mechanical Engineer with post graduation in Energy Management from NPC. He also holds a Doctorate in Energy Efficiency in the field of Gas Turbines. He had been in the field of Energy Efficiency for almost three decades with National Productivity Council during which he was cultivated to use productivity practices leading to energy efficiency. He is now the Director of Centre for Energy, Environment and Productivity (CEEP). He is one of the authors for the Guide Books on Energy Efficiency for the National Certification Examination for Energy Managers and Energy Auditors.



Mrs. Samhita.M
Managing Director
Ela Green Buildings & Infrastructure Consultants Pvt. Ltd.

Samhita M, LEED AP, IGBC AP, ECBC Master Trainer & Expert, Edge Auditor & Expert and USGBC Faculty is the Managing Director of Ela Green Buildings & Infrastructure Consultants, a company founded in March 2009. An architect from Anna University, Samhita's academic qualification also includes a PGPM from Great Lakes Institute of Management, Chennai. Prior to starting Ela, she worked with Ashok Leyland Properties and the CII Green Business Centre, Hyderabad where she was associated with all the prestigious projects of CII ranging from developing of rating systems and formulating framework for certification of Green Buildings.



Mr. Mahesh Kumar M
Principal Consultant
TransGreen Sustainability Solutions

Mahesh Kumar M is Certified Energy Auditor, ECBC Master Trainer, IGBC Accredited Professional, GRIHA Certified Professional and an EDGE Expert and Auditor. He has 18 years' experience in Energy Efficiency, Building Efficiency, Green buildings and Sustainability. Currently working as Principal Consultant at TransGreen Sustainability Solutions. Working stints with ERNST & YOUNG, DSCL ESCO, INTESCO ASIA and Powertech Energy Auditors.



Er. Rajesh Deshpande
Director
Energetic Consultants (P) Ltd.

He is Certified Energy Auditor and have 25 years of experience working with Energy management Industry and has conducted more than 100 Energy Audits. He is part of Energy Efficiency programmes in Municipal, Pharmaceutical, Chemical, Food, Textile, Hospitality industries. He have provided Energy Efficient HVAC system designs for Low RH control systems in Engineering and pharma sector.



Mr. Mathew Joseph
Vice President
Apar Technologies Pvt. Ltd.

Mr Mathew is the Head of Artificial Intelligence Labs for CIMB Bank. An Alumnus of the University of Chicago and a keynote speaker, he is known for his thought leadership in the area of Artificial Intelligence and Machine Learning. He is also a mentor for many start-up companies in the Artificial Intelligence domain. He has over 29 years of experience of innovation, software development, Technology Consulting and Project management. Earlier he worked with IBM, Siemens and TCS and is a certified Project Management Professional and a certified Industry Consultant.



Dr. Shaji James P
Associate Professor
Kerala Agricultural University

Dr. Shaji James P is working in the field of Farm Power, Machinery and Energy in KAU for the last 25 years. He has developed a number of implements and gadgets in agricultural sector. He received the prestigious Jawaharlal Nehru Award of ICAR for the year 2002 for his doctoral research on high rate bioreactor for energy production from cassava starch factory effluent.



Mr. Akshay Kumar Gupta
Director
Passive Design Consultants

Akshay is an Environmental Engineer/Architect and has a decade of professional work experience as a Green Building Consultant in the UK and India. He is an IGBC Accredited Professional, GRIHA Certified Professional & Evaluator, LEED AP BD+C, BEE Certified ECBC Master Trainer and BEEP Certified Green Building Charette Conductor. He has deep understanding in design and analysis of building envelope, HVAC systems, occupant's behavior and comfort in both indoor/outdoor environments. Being a firm believer in dissemination of knowledge & skills, he has been involved in conducting many professional training workshops across India.



Dr. M.G. Gharpure
Director
Yajna Fuel Services, Thane, Maharashtra

Dr. M. G. Gharpure is a graduate in Chemical Engineering from VNIT, Nagpur. He obtained both M.Tech and PhD from IIT Bombay. He has professional experience of 30 years. He has an overseas experience for reputed industries in Pakistan, Sri Lanka, Middle East, Tanzania, Kenya, Mali, Togo. Dr. Gharpure represented India for SAARC summit on Energy, and was honoured by Institution of Engineers (India) for "outstanding contribution in energy sector – 2011".



Mr. Kumar Biplab
BEE ECBC Master Trainer

Kumar Biplab is an Energy Engineer & Govt. Registered Valuer (Plant & Machinery) with 10+ years of experience in project management liaising and coordinating with clients, vendors & consultants, 9+ years in energy audits, energy simulations, retro-commissioning works, site execution, technical delivery. He has experience of working with advanced technologies, including but not limited to, Combined Heat & Power, District Heating & Cooling, Thermal Energy Storage, Geothermal Heating & Cooling systems.



Er. Paraman Radhakrishnan
Director
Devki Energy Consultancy Pvt. Ltd., Vadodara, Gujarat, India

He has 34 years' experience in conducting Industrial & Building Energy Audits and Training Programmes on Energy Management. He did consulting assignments on Energy Efficiency and Integrated Energy & Water Audits in India, Kenya, Tanzania, Uganda, Nigeria, Senegal, Indonesia, Thailand, Saudi Arabia, USA, Mexico, Germany, Denmark, Netherlands, Ireland, France, Luxembourg, Czech Republic, Estonia & Italy.



Er. Ahammed Kabeer T A
Chief Technical Officer & Energy Expert
Alenso Energy

Mr. Ahammed Kabeer T A has more than 21 Years Experience in the field of energy and involved in Energy Efficiency assessment and audit, Electrical audit, GHG audit, ECBC & LEED Assessment, Power Quality Audit, HVAC Audit, Safety audit, Indoor Air quality Audit, EHS Audit, Technical Due diligence audit of commercial buildings, Data centers, Industries and Power plants.



Er. Amit Chadha
Head of Digital Services
Schneider Electric India Pvt. Ltd.

He heads the Digital Services business at Schneider Electric, primarily focusing on Service transformation through Smart technologies powered by IoT, Artificial intelligence and Cloud based platforms to bring operational efficiency in the facilities. In his 21+ years career, he has held key positions in various organizations driving business initiatives involving Energy Management & Power Quality solutions, Software, automation, consultancy and Advisory Services like ISO 50001.



Er. Febin K. V. M.
Business Development & Offer Manager
Schneider Electric India Pvt. Ltd.

He holds a Mechanical Engineering degree from Bangalore Institute of Technology, started off his career as an IBMS Project Management specialist and has over 10 years of experience in the field of commercial buildings, the world of building automation, digitization and IoT". He has worked with the top companies in the domain like Honeywell and United Technologies Corporation (UTC).



Er. N Mohan
Dy General Manager & Head
EV Charging Infrastructure, Energy Efficiency Services Ltd.

He is an experienced professional with over 14 years of experience in the field of policy planning, conceptualization and implementation of energy efficiency programs. He presently heads, Electric Vehicle Charging Infrastructure (EVCI) Department at EESL. He has played a pivotal role in incorporating and developing a digital ecosystem for operational efficiency and performance improvements in the charging infrastructure.



Ar. Ankit Bhalla
Dy Manager-Technical
GRIHA Council, TERI, New Delhi

Ankit Bhalla graduated from Jamia Millia Islamia, New Delhi in 2011 with a B.Arch degree; he enrolled for a master's program in the field of Energy Efficiency and Sustainability from CEPT University Ahmedabad where he was awarded with the Best student of the Year (2012) and Best Research Awards (2013). He has also received Rising Star award from TERI for his efforts and hard work for green building rating development in 2014.



Mr. Vevaik Mahajan
Director
UEDC

Vevaik Mahajan is an IGBC AP (Indian Green Building Council Accredited Professional) BEE Certified ECBC Master Trainer. Before founding UEDC, Vevaik worked at various international engineering firms like dbHMS and KJWW where he handled and managed overall India operations and took companies to the successful heights with his unique and innovative ideas and approaches. He offered his clients one-of-its-kind services that helped bridge the gap between international design and local construction realities in India.



ER. Ananthapadmanabhan G S
Lead Energy Strategist (Analytics & Automation)
Smart Joules Pvt Ltd

He is currently leading a team of energy engineers working under the umbrella of Analytics and Automation through the Building Energy Management System. The team works with the mission to eliminate energy waste through innovations in continuous energy optimization. Under his aegis the team manages 16 sites across India through the Building Energy Management system. His areas of interests are centralized air conditioning, data oriented operational optimization of water cooled chiller plants and machine learning applications for energy efficiency.



Dr. P. Dhamalingam
Accredited Energy Auditor
EnSave Consultancy and Training Pvt Ltd, Chennai
(Former Director NPC, Chennai)

Dr. P. Dharmalingam has over 35 years of Experience in conducting Energy Audits in India and abroad. He has carried out PAT cycle consultancy and detailed Energy Audits for a wide range of Industrial Sectors and Buildings. His professional credentials include being co-author for Indian National Guide book on Energy Efficiency and establishment of CETEE (Centre of Excellence for Training on Energy efficiency).



Dr. Jahangeer K Abdul Halim
Technical Director
LJ Energy Pvt Ltd, Singapore (ESCO)

Dr Jahangeer a registered Professional Engineer (Mechanical) with the Professional Engineer Board Singapore, graduated with a bachelor's degree (B.Tech, Mechanical) from College of Engineering Trivandrum, Master of Science (M.Sc.) in Mechanical Engineering from National University of Singapore in 1998. He was awarded a Research Scholarship by the National University of Singapore (NUS) in 1999 to undertake a research project on solar energy and was awarded a Master of Engineering (M.Eng.) degree in 2002.



Mr. Suresh Kumar M
Additional Director
Petroleum Conservation Research Association (PCRA)

He is having more than 22 years of experience in Oil Industry and is a BEE Certified Energy Auditor.



Dr. K P Sudheer
Associate Director
Research (Agri. Engineering) Head

Prof.(Dr.) K P Sudheer, obtained his B Tech Agricultural Engineering degree from Kerala Agricultural University (KAU), M Tech Agricultural Processing from Tamilnadu Agricultural University (TNAU), PhD Agricultural Engineering from IARI New Delhi and Post doctorate from KU Leuven Belgium. Prof. Sudheer started his career as scientist in Agro Processing Division, CIAE (ICAR), Bhopal. He is presently working as Associate Director of Research (Agril. Engg) in Kerala Agricultural University.



Mr. Sarath Babu
Jr Sales Manager
Popular Hyundai

He has 9 years experience in the Automobile industry. He started his career as a Faculty on project operated by Keltron in 2010-11, later moved to Mercedes Benz Kerala dealer Rajasree Motors as Sales Consultant and worked there for 4 years in 2014-18. Then joined he TVS Mahindra as Assistant Manager on Premium Cars for a span of 6 months. Currently he is with Popular Hyundai as Jr Sales Manager for Electric Cars.



Mr. Syed Moazzam Ali

Technical Director

“Taiba Engineering Consultants” (TEC MEP Institute)

Syed Moazzam Ali has twenty years of National & International professional experience in Designing of MEP Services for Residential, Commercial & Industrial Buildings. He is involved in imparting professional Designing training on MEP Building services HVAC, Plumbing, Fire Fighting & Green building Energy Simulation (IES-VE, eQuest, DesignBuilder) to working professionals & young Engineers. He has provided project guidance to Engineering Students & helped to bridge the gap between academics & Professional World.



Mr. Jitendra Vyas

Structural Consultant & GRIHA Evaluator

President ISHRAE INDORE CHAPTER

Jitendra K.Vyas is a Structural Engineer, Law Degree, M.B.A. (Information Technology)& PG Diploma in Urban Planning & Development. He has been practicing as structural engineer since years and recently working on upcoming field of green buildings and sustainable built environment as energy consultant. He is handling Govt. Health / Institutional Projects, Banks, Public Sector Undertakings, other institutional and Housing Projects. He has been a competent person under Factories Act 1948 for Indore Special Economic Zone (SEZ).



Er. G. Krishnakumar

General Secretary

SEEM

G Krishnakumar is a freelance energy consultant and also Chartered Engineer.. He is a BEE Certified Energy Auditor, Certified Lead Auditor for ISO 9001, 14001, 50001. He is having more than 35 years of experience. He was the Chief Operating Officer and Hon. Treasurer of Society of Energy Engineers and Managers(SEEM). At present he is the General Secretary of SEEM. He is also a member of Institution of Engineers India (IEI).



Er. Arun Krishna Gelli

Divisional Manager

EVEMS, Ashok Leyland Ltd.

He is leading the power electronics team for bringing up innovative solutions in Electric vehicles sub systems such as traction inverters, traction motors, DCDC converters, onboard/off board chargers and electric vehicle controllers. He has prior experience of working with global R&D teams in various organisations such as Siemens and GE, where he has extensively worked on indigenisation of inverters and converters for solar and wind segments.



Mr. Balasubramoniam

Sales Manager

Aquasub Engineering, Coimbatore

Mr. Balasubramoniam has vast experience in the field of Agricultural equipments manufacturing and installation. He holds bachelors degree and MBA in Agricultural Engineering from Tamil Nadu Agricultural University.



Er. Sandeep K

Energy Technologist -C

Energy Management Centre

Sandeep K is graduate in electronics and communication and holds MBA in Operations and HR.He has 12 years of experience in energy field and is certified Energy Manager of BEE. He also holds post graduate diploma in embedded systems design.



Er. G. Anil
Joint Director (Retd.)
Energy Management Centre-Kerala

He was the Head of Small Hydro Power Division at the Energy Management Centre-Kerala since December 1998 and worked in the field of Small/ Mini/ Micro Hydro Electric Power Projects for various Consultancy assignments and projects of the Centre/ State Govt. In addition, he held the additional responsibility of providing expert services to the Power Department, Govt. of Kerala as a member of the Small Hydro Promotion Cell in connection with the opening up of Small Hydro Electric Schemes.



Mr. Arpan Pal
Engineer-Building Physics
WSP Consultants India (P) Ltd

Arpan Pal is a Felix Scholar and European Campus of Excellence member, holding double Master's degree in Renewable Energy and Environmental Sciences with focus on environment and energy efficiency projects. He started his career in developing UNFCCC-CDM (Clean Development Mechanism) projects in Uzbekistan and Haiti and later, evolved through education and experience into focusing on sustainable building design.



Ar. Neha Vyas

She works as Senior Architect- Sustainable Design at Smarter Dharma, Bengaluru. Neha has 8 years of experience in Green Building Consultancy and Sustainable Design. She has worked on over fifty Green Building Final Certification projects for LEED, IGBC and GRIHA for commercial, institutional, residential, airport, existing buildings, etc. Her expertise is design to execution of green buildings, green building certification projects, energy modelling and environmental analysis. She holds M.Arch in Sustainable Architecture from Bharathi Vidyapeeth University, Pune and B.Arch from Mumbai University. She is an ECBC Master Trainer, LEED AP(ID+C) and IGBC AP.



Er. Milind Chittawar
CEO, See-Tech Solutions (P) Ltd

He is a BEE -Certified Energy Auditor and have more than 27 years of experience working with Energy management Industry and have been undertaking ESCO projects as well. He holds M.Tech Degree in Metallurgy from Vishweshwaraya National Institute of Technology and MBA from IIM Indore. He has won the South Asia Energy Professional Award two times.



Dr. Jacob John
Professor & Head
Integrated Farming System Research Station

He has been working as an Agronomist in the Kerala Agricultural University since 1999; currently Professor and Head, Integrated Farming System Research Station, Trivandrum, Kerala. His area of specialization is integrated farming/ farming systems, especially in homesteads, and allelopathy. He completed his graduation, post graduation and Doctoral programme in the KAU. He has received 3 International, 4 National and 9 State level awards. He has authored 26 books, 17 book chapters, 3 Technical bulletins and 131 research publications besides several popular scientific articles.



Er. Bidyut Mazumder

Sr. Manager

Future Grids, Siemens Ltd.

Electrical Engineer with over 13-years of experience in the electrical industry across various functions and locations in India and Germany. Experienced in project management, product lifecycle management, strategy support, business development, solution development and vertical management. Responsible for business development of Future Grid segment in India and ME regions, consisting of Solar PV, Battery Energy Storage Systems, eMobility Heading renewable vertical for Siemens India.



Er. Suresh Babu B. V.

Co-Founder & Accredited Energy Auditor

OTTOTRACTIONS

He is an accredited Energy Auditor (AEA-33) of Bureau of Energy Efficiency, Government of India having 20 years of experience in energy engineering. He has completed more than 700 energy audits in various sectors. He is an Energy Auditor by profession and has been appreciated by the Government of Kerala by presenting its prestigious "Kerala State Energy Conservation Award" for his commendable achievements and contributions towards energy conservation and management activities in the State of Kerala.



Mr. Nishesh Jain

Director, PSI Energy Pvt. Ltd.

Nishesh Jain is an expert in Green building design and Rating Systems, Building Physics, Daylight and shading, Natural ventilation in buildings, Renewable energy sources, Thermal performance and Building energy modelling, Acoustics and Artificial lighting. He is an ECBC master trainer, software developer in DesignBuilder Software Ltd, GRIHA India Evaluator and trainer. He has been involved in proposal, management & delivery of 30+ Green Building Projects (GRIHA, LEED, IGBC)



Mr. Rana Pratap Poddar

Head - Energy Efficiency Projects, Agnikrida, New Delhi & Kolkata

Rana Pratap Poddar, is a performance driven professional with more than 12 years of experience in Green Building Design, Research & Development in Built Environment, Energy Audits, Energy Conservation Programmes and Project Consultancy. Currently associated with Agnikrida, Kolkata as Heading Green Buildings and Energy efficiency projects. Previously associated with PSI energy, New Delhi as Head building energy systems. Previously associated with The Energy and Resources Institute, New Delhi as Research Associate.



Mr. Bhoovarahan Thirumalai

Aspiration Energy Pvt Ltd, Chennai

As its founder and CEO, Bhoovarahan alias Bhoos defines the strategic direction for AEPL and drives the team with agility. He is a certified PV designer and a regular speaker in both national and international conventions on renewable energy. He is also a serial entrepreneur and investor. Before founding Aspiration Energy, Bhoos co-founded Aspire Systems, a global IT services provider, and currently serves as one of its Directors on the Board. Prior to founding Aspire Systems, Bhoos played a role in helping Larsen & Toubro establish a successful market presence in plastic injection molding machines.



Dr. Suresh Kumar P. K.
Professor
Kerala Agricultural University

Former Research Engineer, KAU-KLDA project on Introducing mechanization package for Harvesting & Threshing of Paddy in Kole lands of Kerala. Also works as Assistant Engineer (Agri.) State Department of Agriculture, Kerala. Twenty two years of research and teaching experience in the field of Farm Power Machinery & Energy. He has published several papers in the field of Farm Power Machinery.



Er. Johnson Daniel
Head - NMEE & DSM (Energy Efficiency) Division
Energy Management Centre

He is a BEE - Certified Energy Auditor (CEA). His professional profile spanning about three decades includes experience in Plant Energy Systems in manufacturing sector and energy efficiency projects and programmes in industrial, commercial and service sectors.



Mr. R.Suryanarayanan
Director Gr.II
National Productivity Council

B.E. (Mechanical Engineering), Post Graduate Diploma in Energy Management, Post Graduate Certificate in SQC & OR, Customer Relationship Management, Post Graduate Degree in Software Systems.



Er. Santhosh A.
BEE Accredited Energy Auditor, Athul Engineering Consultants Pvt Ltd

Mr. Santhosh A has over 30 years of national & International consulting experience in developing and managing energy efficiency projects, conducted over 350 detailed energy audit with techno- commercial feasibility studies, Productivity improvement waste minimization studies, benchmarking studies, identification of KPIs for sectors, developing guidelines & setting up standards for MSME sectors which acts as inputs for policy making by central & state government.



Dr. Sathian K. K.
Dean (Agricultural Engineering)
Kelappaji College of Agricultural Engineering & Technology, Tavanur

He is an Agricultural engineer with more than 25 years of experience. Currently he is the Dean of Kelappaji College of Agricultural Engineering, Thavanoor. He had done his PhD in Water resources at NIT, Calicut. He had published several scientific papers in the field of Agricultural Engineering and water resource management. He is also apart of various consultancy and implementation activities.



Er. I. V. Ramesh Kumar
Chief Executive

Maruti Consultants, Hyderabad

I V Ramesh Kumar has over 30 years of experience in the areas of energy efficiency include process and engineering industries, infrastructure projects, railways, national and international buildings, PAT studies. Core competencies are training and consultancy experience in Energy Efficiency Studies, safety audits, due diligence studies and has recognized expertise in this field. Handled consultancy and training projects of World Bank, Asian Development Bank and also international agencies viz. USAID, UNIDO, UNEP, KFW etc.



Er. J Srinivasan

ACE Enablers LLP

J. Srinivasan is a Graduate from Madras University and possess PGDMM and has an experience of 38 years in the area of Motor dimensioning, Motor testing & Inspection, On-site efficiency testing and analysis, Power Quality audit and solutions, Training and Orientation for IE3 motors and Energy Efficiency in Electrical and Motor systems. He is a Life Member of Energy Fuel Users Association (EN-FUSE) and Indian Institute of Plant Engineers (IIPE). He is Empaneled with FICCI, International Copper Association (India), EESL, Siemens Ltd., and SIDBI.



Er. K. M. Shanavaz

Joint Director

Kerala State Productivity Council (KSPC)

He is having an experience of over 15 years in Energy Audit, Industrial Engineering, Industrial Safety, Energy Conservation Building Code (ECBC) compliance analysis, carbon footprint study, Electrical power distribution T & D loss analysis (DISCOMS), Software based Building Simulation, PAT M&V Audit etc..



Er. R. Chandru

Manager - Product Management & Marketing

Larsen & Toubro - Electrical & Automation ESP

He completed Bachelor degree in Electricals & Electronics Engineering from PSG College of Technology, Coimbatore. He has been working in Larsen & Toubro Ltd – Electrical & Automation, since 2009. He has a total 11 years of experience in various fields - Power Quality (Reactive Power & Harmonics), Controlgear and Energy Management Systems. He had presented two technical papers, one in an International conference organized by IEEMA & another in a National level conference organized by CPRI. He also conducted many guest lectures & technical seminars at various forums.



Er. Dinesh Kumar AN

Head - ECBC, SHP, S&L (ESS) Division

Energy Management Centre

He has technical experience spanning over 23 years, he carried out various energy efficient infrastructure projects, Green Buildings, consulting, Logistic Park development, Environmental Impact mitigation studies and renewable energy integration.



Ar. Ashiqua Sulthana
Lead Consultant
Tropical Greenovation Cluster (TGC)

Architect specialized in sustainable architecture with six years of experience in design and analysis of climate responsive and energy efficient buildings across India. Exposed to advanced and innovative software tools for climate analysis, energy, day lighting, artificial lighting, thermal comfort analysis, etc. Started her career in Sustainability and Green Buildings from The Energy and Resources Institute (TERI) Western Center and later engaged with facilitation of various green certified projects while working at Passive Design Consultants, New Delhi.



Er. Subhash Babu B.V.
Registrar
Energy Management Centre

He has 20 years of experience in the fields of energy efficiency and management. He is a Certified Energy Auditor of the Bureau of Energy Efficiency. He has a vast experience of taking awareness classes for the energy conservation enthusiasts all over Kerala.



Er. Jayan. P. P
Principal Engineer
Power Electronics Group, C-DAC Thiruvananthapuram

He has more than 17 Years Experience in the field of Power Electronics and Power systems. He has been involved in the design, development and implementation of Electric vehicle controls, Energy Efficient Boats, Microgrids technologies, Automotive Power Electronics, Vehicle control unit for ABB, BHEL, CGL, Delta etc.



Er. Naga Venkata Sai Kumar
Energy Performance Analyst
Integrative Design Solutions

Naga, holds bachelors in Architecture and presently pursuing MS by Research in IT in Building Science - Part time from IIIT-Hyderabad. As Building Performance Analyst in IDSPL, he handles academic and applied research projects related to Building Energy Efficiency and Climate Change. Through his real-time application expertise in IT in Building science, he has been aiding IDSPL to accomplish several national and international technical research projects. Involved in the development of guideline for Energy Conservation Building Code for Nigeria.



Ms. Anindita Talukdar
AGM (Strategy and Operations)
Neev Energy

She have been working in the area of smart lighting and collaborating with technology partners to enable transformation to future ready technology driven and sustainable cities which are cleaner, better planned cities anchored in an energy efficient ecosystem. Have successfully handled implementation of one of the most prestigious and intelligent lighting project in Odisha. Closely worked on ESCO models for smart street lighting solutions.



Ar. Gaurav Shorey

Director

PSI Energy Pvt Ltd.

Gaurav Shorey has a bachelor's degree in Architecture (B.Arch. School of Planning and Architecture, New Delhi) with a post-graduate diploma in advanced construction management (D.A.C.M – National Institute for Construction Management and Research, Pune). He has 15 years of experience in the green buildings industry and sustainability related education and awareness. He has worked on over one-hundred green building and energy efficiency projects across India and overseas including IIT's, IISER's, AIIMS's.



Er. Reji Kumar Pillai

President - India Smart Grid Forum

Chairman – Global Smart Grid Federation

Reji Kumar Pillai is the President of India Smart Grid Forum since its inception in 2011 and is also the Chairman of Global Smart Grid Federation since November 2016. He is an internationally renowned expert with over three decades of experience in the electricity sector in diverse functions covering the entire value chain and across continents. He is spearheading a mission to leverage technology to transform the electric grid in India and light every home at affordable cost through sustainable developmental models.



Er. Jiju K

Joint Director/ Scientist 'E'

CDAC, Trivandrum

He is presently employed in Power Electronics Group(PEG) of Centre for Development of Advanced Computing (CDAC), Trivandrum. He completed his graduation in Applied Electronics and Instrumentation Engineering from the University of Calicut in the year 2006 and started his career as Research Fellow in the PEG of CDAC, Trivandrum. His areas of interests include Smart Metering and Advanced Metering Infrastructure, Embedded System Design, Power Electronics, Renewable Energy, Biomedical, VLSI Design and Real Time Simulation.

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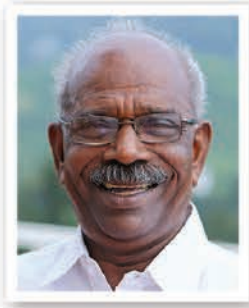
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Kerala

Shri. M. M. Mani
Hon. Minister for Electricity



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