

**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 5<sup>th</sup> June 2020 (World Environment Day)  
To 22<sup>th</sup> March 2021 (World Water Day)





പിണറായി വിജയൻ  
മുഖ്യമന്ത്രി



കേരള സർക്കാർ

സെക്രട്ടേറിയറ്റ്  
തിരുവനന്തപുരം-695 001

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



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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  
**8<sup>th</sup> 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

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**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  
**25<sup>th</sup> 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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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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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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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

05<sup>th</sup>  
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

08<sup>th</sup>-16<sup>th</sup>  
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

19<sup>th</sup>  
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

20<sup>th</sup>  
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

25<sup>th</sup>  
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



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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

03<sup>rd</sup>  
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

06<sup>th</sup>-14<sup>th</sup>  
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

17<sup>th</sup>  
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

18<sup>th</sup>  
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

2020 JULY

21<sup>st</sup>  
TUESDAY

**Energy Efficiency In the Built Habitat**

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

**Speakers**

1. Ms. Archana Wallia, (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)



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



To participate  
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Toll free number: 1800 425 5256

2020 JULY

23<sup>rd</sup>

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

24<sup>th</sup>

FRIDAY

### IoT technologies in Energy Sector - Workshop for Students

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

#### Key Takeaways of Presentation

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

2020 JULY

30<sup>th</sup>

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

01<sup>st</sup>

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

2020 AUG

03<sup>rd</sup>-11<sup>th</sup>

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



Energy  
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Kerala



1<sup>st</sup> 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

10<sup>th</sup>  
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

14<sup>th</sup>  
SATURDAY

### Energy Efficiency in Air Compressor

Dr. Dharmalingam

#### Key Takeaways of Presentation

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

2020 AUG

17<sup>th</sup>  
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

25<sup>th</sup>  
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

27<sup>th</sup>  
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



Energy  
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Centre  
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)

## 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

28<sup>th</sup>  
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

04<sup>th</sup>  
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

07<sup>th</sup>-16<sup>th</sup>  
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

2020 SEPT

19<sup>th</sup>  
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

21<sup>st</sup>  
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



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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 SEP

22<sup>nd</sup>  
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

24<sup>th</sup>  
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

2020 SEP

25<sup>th</sup>  
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

01<sup>st</sup>  
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

05<sup>th</sup>-13<sup>th</sup>  
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



Energy  
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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 OCT

16<sup>th</sup>  
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

20<sup>th</sup>  
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

22<sup>nd</sup>  
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

2020 OCT

30<sup>th</sup>  
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

7<sup>th</sup>  
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



Energy  
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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 NOV

09<sup>th</sup>-17<sup>th</sup>

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

20<sup>th</sup>

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

24<sup>th</sup>

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

26<sup>th</sup>

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

2020 DEC

01<sup>st</sup>

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



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Kerala



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

WEBINAR ON

# Energy Conservation in Residential Building Conceptualization

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



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2020 DEC

02<sup>nd</sup>  
WEDNESDAY

### Scope of Energy Efficient Street lights in LSGDs

Er. Johnson Daniel

#### 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

04<sup>th</sup>  
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

07<sup>th</sup>-15<sup>th</sup>  
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

18<sup>th</sup>  
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

22<sup>nd</sup>  
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



Energy  
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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

28<sup>th</sup>  
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

30<sup>th</sup>  
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

02<sup>nd</sup>  
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

05<sup>th</sup>-12<sup>th</sup>  
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

11<sup>th</sup>  
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

15<sup>th</sup>  
FRIDAY

### Energy Conservation Act - 2001

Er. Johnson Daniel

#### Key Takeaways of Presentation

- Understanding Energy Conservation Act 2001
- Policies & regulations



Energy  
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Centre  
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

16<sup>th</sup>

SATURDAY

### Energy Efficient Motors

Er. K. M. Shanavaz

#### Key Takeaways of Presentation

- Factors affecting efficiency of motors
- Efficiency variation during rewinding of motor
- Soft starters

2021 JAN

18<sup>th</sup>

MONDAY

### Finance options for Energy Efficiency projects

Mr. Arun. M. R.

#### Key Takeaways of Presentation

- Energy efficiency financing schemes
- Soft loan schemes

2021 FEB

06<sup>th</sup>

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

15<sup>th</sup>

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

16<sup>th</sup>

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

20<sup>th</sup>

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



Energy  
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Centre  
Kerala



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

27<sup>th</sup>

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

01<sup>st</sup>

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

05<sup>th</sup>

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

06<sup>th</sup>

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

20<sup>th</sup>

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

22<sup>nd</sup>

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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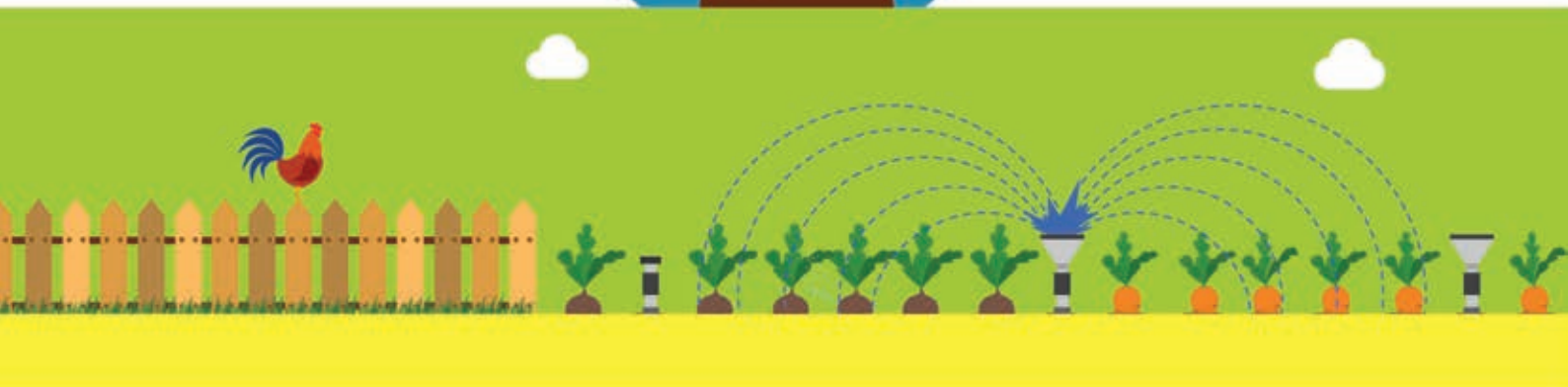
Shri. K. Krishnankutty

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.



**Dr. P. Dharmalingam**  
**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).



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



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