

Brought to you by **सीम्seem**

# seem NEWS

www.seemindia.org

society of  
energy engineers  
and managers



## VIEW POINT

The World Energy Outlook-2020 (WEO), released by International Energy Agency (IEA) in October, says, 'decline in emissions on account of COVID, lockdowns and resulted disruptions in economies are temporary'. There is no room for complacency and we should not try to find any solace out of it. Thus WEO amply clarifies that now the positive lesson is that this hiatus is an opportunity to redesign our energy perspective. The further possible danger of pandemic throws up different options to tackle the impacts on energy and economy. The IEA Outlook or WEO has done a detailed crystal gazing into possible scenario, categorizing it broadly into Four:

1. Stated Policies Scenario (STEPS) assumes that the pandemic comes under control gradually in 2021 and the Governments adopt effective implementation of their declared energy targets.
2. Delayed Recovery Scenario (DRS) says 'If policy steps remain the same as above but the pandemic not relenting so easily, then the economies may recover only by 2023'.
3. Sustainable Development Scenario (SDS) sees more drastic measures to meet the climate goals beyond the so far stated targets and the pandemic is assumed more tame as mentioned in STEPS and the newest.
4. Net Zero Emission by 2050 case (NZE2050) advocates a much accelerated adoption of SDS strategies. NZE 2050 also delineates a close term action plan for next decade to put the efforts on right track to achieve the mid-century goals. The points, put forth in the Outlook, hold the numerous opportunities which can be tapped by sustainable energy professionals.

A surge, in clean energy initiatives, is necessary to achieve the climate goals. It will bring along the host of employment opportunities and economic growth as well. Renewable energy and electricity from renewable sources have caught the imaginations of countries and big strides are being made in this direction. It has been evident that innovations have to be brought in all facets of energy. This innovative spirit and the much needed aggressive implementation of strategies can only lead the planet to NZE 2050. It will also open up the opportunities for energy professionals in the directions which were not conceivable conventionally.

The various governments have shown resilience capacities in preparations for fight against the pandemic which can play a significant role in taking us to the coveted goal of NZE 2050.

Taking clues from the World Energy Outlook 2020, I take this opportunity to call upon all the energy professionals to armour yourself with the new and varied skills required for the above transition, play our roles and thrive in energy dominant future which is full of opportunities. But It calls for looking beyond conventional streams, creative thinking, collaborative initiatives and continuous up skilling. Thus the energy professionals will be playing a historic role in taming the uncertain scenario. By using the best of our abilities we can secure the higher levels in energy civilization, which can further generate the decent livelihood for fellow beings and at the same time helping the planet to remain unscathed.

**G Krishnakumar**

Immediate Past National General Secretary  
& Chief Operating Officer



## CONTENTS

Webinar on "Smart Asset Analytics in Power Distribution Systems"

"Energy Conservation through water conservation"

Electrical Safety in Solar PV Installations Common Issues & Remedies

India's Electric Mobility ambitions - Can Power Quality issues lead to flat tyres?

Webinar on "National Electrical Code of India"

SEEM – Maharashtra Chapter meeting held on 22nd October 2020.

SEEM Member was the guest in the Best Grading Test conducted by Japan Karate Association of India

PM Modi underscores 7 key pillars of India's energy strategy

Solar tariffs may reach a new record-low once again: Experts

New battery tech can charge electric cars up to 90 per cent in 6 mins

KKR launches platform to acquire renewable energy assets in India

Power from renewable sources jumped 31 per cent in October 2020

India experienced first decrease in carbon emissions in four decades

Panel Discussion Energy Sector: Opportunities for Young Engineers

SEEM National Energy Management Awards 2020 And Sponsorship details

Employability Skill Certificate Course - Infra 4.0 for Fresh and Budding Engineers

Panel Discussion on IoT and Energy Management on 24th November 2020 at 10:30 AM

## Patron

**Dr. Brahmanand Mohanty,**  
Adviser for Asia, ADEME

## Editorial Team

*Chief Editor and Publisher*

**G Krishnakumar**  
Immediate Past National General  
Secretary & Chief Operating  
Officer - SEEM

## SEEM Executive Council

### President

**Mr. Mool Chand Jain**

### Vice- President

**Mr. R. Jayakumar**  
General Secretary

**Dr. C. S. Azad**

Joint Secretary

**Mr. Sunil Choudhary**

Treasurer

**Mr. Alpesh Pandya**

Disclaimer: The news published is directly picked up from the website and newspapers with the source and links provided. The views expressed need not be those of SEEM.  
Technical Support:



Brought out by Energy Press for Society of Energy Engineers and Managers  
SEEM Bhavan, KRA-A79, Kannammoola,  
Thiruvananthapuram – 695011  
www.seemindia.org



## REPORT

## Webinar on “Smart Asset Analytics in Power Distribution Systems”

Society of Energy Engineers and Managers, Karnataka Chapter has organised a webinar on “Smart Asset Analytics in Power Distribution Systems” on 21<sup>st</sup> November 2020 at 7:30 pm to 8:30pm

### SOCIETY OF ENERGY ENGINEERS AND MANAGERS Karnataka Chapter


[www.seemindia.org](http://www.seemindia.org)

Society of Energy Engineers and Managers, Karnataka Chapter welcomes you to join a webinar on “**Smart Asset Analytics in Power Distribution Systems**”



November 21, 2020



Time 7.30 pm – 8.30 pm IST

#### Key takeaways :-

1. Introduction to modern concepts and innovations in asset management
2. Understand the enabling technologies for intelligent asset analytics
3. Learn the use cases of asset analytics in energy efficiency and cost savings

#### Presenter



**Jayant Sinha** - Principal Consultant (Energy & Power) serving the industry and utility sector for over 34 years, holding important positions in both public and private sector such as NTPC (Rihand, Dadri and Auraiya), Uttarakhand Power Corporation Ltd and Enzen Global, United Kingdom.

He was a member of the erstwhile Indian Smart Grid Task Force (ISGTF), and as part of India's smart grid mission contributed in the working groups for Substation automation, SCADA/ PLC, Enterprise Asset/ Maintenance Management, DR/ DSM, Utility GIS and Energy Efficiency improvement. He has published over 30 papers and delivered lectures in India and abroad.

**Registration Link:** <https://forms.gle/otq7AEclbkvwxiwca>

For any Support:

Benet George, Secretary, SEEM Karnataka Chapter  
+91 9611800893, [seemkarnataka@gmail.com](mailto:seemkarnataka@gmail.com)

## “Energy Conservation through water conservation”

Mr. Aneesh Rajendran, Energy Technologist at EMC and Hon. Jt. Secretary, SEEM Kerala Chapter explaining about the energy conservation in the program “Energy Conservation through water conservation” conducted by Energy Management.

“ജല സംരക്ഷണത്തിലൂടെ ഊർജ്ജ സംരക്ഷണം”  
എന്നർജി മാനേജ്മെന്റ് സെന്റർ ഊർജ്ജ വിദഗ്ദ്ധൻ  
ശ്രീ. അനീഷ് രാജേന്ദ്രൻ  
സംഗമങ്ങൾക്ക് മറുപടി നൽകുന്നു.  
04 November 2020  
രാവിലെ 11 മണി മുതൽ..  
[www.facebook.com/energymanagementcentre](http://www.facebook.com/energymanagementcentre)

## Electrical Safety in Solar PV Installations Common Issues & Remedies

Central Electricity Authority of India organised a Webinar on Electrical Safety in Solar PV Installations Common Issues & Remedies” in association with International Copper Association India on 29<sup>th</sup> October 2020.

Experts from ANERT, Quantum Sun and ICA I are interacted with audience and explained the relevant topics.

Organised by  
In association with  
Webinar 5 | National Electrical Safety Campaign 2020  
Electrical Safety in Solar PV Installations  
Common Issues & Remedies  
Thursday, 29 Oct 2020 | 4 to 6:30pm  
Interactive Webinar  
Introduction to Solar DC Cable & Relevant Standards  
Debdas Goswami  
Senior Advisor, ICA India  
Installation of Rooftop Solar PVs, Electrical Practices & Case Study  
Sivaramkrishnan  
Advisor to ANERT, Solar Consultant  
Importance of Electrical Safety in Rooftop Solar PV Installations  
Ravikumar Gurumurti  
Consultant, Quantum Sun  
Question & Answer Session  
Session Moderator  
Amol Kalsekar  
Chief Manager, ICAI





## REPORT

# India's Electric Mobility ambitions - Can Power Quality issues lead to flat tyres?

A webinar is organised by APQI on the topic "India's Electric Mobility ambitions - Can Power Quality issues lead to flat tyres?" on 30<sup>th</sup> October 2020. SEEM is a NSN partner to APQI

**WEBINAR**  
 30<sup>th</sup> October, Friday  
 4 pm to 5.30 pm

## India's Electric Mobility Ambitions

### Can Power Quality issues lead to a flat tyre?

**Expert Speakers**

**Introduction and Session Moderator**

**Rahul Bagdia**

MD, pManifold Business Solutions Pvt. Ltd.

**Electric Vehicles & PQ issues Policy and Regulations perspectives you must know!**

**Ashok Kumar Rajput**

Chief Engineer, Central Electricity Authority (CEA)

**EV Charging Infrastructure - Designing for good PQ**

**Epko Horstman**

Business Secretary - BSRI, Netherlands

This Webinar will highlight the PQ issues that must be addressed as India steps-up its charging infrastructure by a multi-fold.

1

Key Power Quality concerns for reliable Electric Vehicle Charging Infrastructure

2

Case Study-PQ issues and its impact on safety and reliability of Grid and Power Distribution Systems

3

The evolving global standards for EV Charging Stations and the outlook in view of PQ regulations in India

4

Solutions for mitigating the PQ issues in EV Charging Infrastructure

REGISTER NOW

Supported by

International Copper Association India  
 Building Standards Research Institute  
 PMANIFOLD

## Webinar on "National Electrical Code of India"

Bureau of Indian Standards (BIS), through Electrical Installations Sectional Committee, ETD 20, formulates Indian standards for Electrical Installations.

The National Electrical Code (NEC) of India, SP 30 is a prestigious publication of the Bureau of Indian Standards formulated to lay down a set of standard for good practices and guidelines for selection of various items of electrical equipment, electrical installations in buildings for different occupancies and outdoor sites of temporary or permanent nature, general safety procedures and practices in electrical work, additional precautions to be taken for use of electrical equipment for special environmental conditions like explosive and active atmosphere, and solar photovoltaic power systems.

Currently, National Electrical Code of India is under revision and revised draft has been issued in wide circulation for public comments. In order to have valuable feedback from the users and industry on various technical subjects detailed in NEC and to promote understanding of various Chapters of NEC, BIS has hosted a technical webinar and live interaction for technical discussions on the Revision of NEC of India on 12<sup>th</sup> November 2020.

### Program Schedule Webinar on 'NATIONAL ELECTRICAL CODE OF INDIA' Thursday, 12<sup>th</sup> NOVEMBER 2020 (online)

Time	Session	
1500 h - 1520 h	<b>Inaugural Session</b>	
	Inaugural Address by Shri Jayanta Roy Chowdhury Scientist-G & DDG(Standardization-Products & Methods)	
	Keynote Address by Ms Sumita Anand, Chairman -ETD 20	
<b>Technical Session</b>		
	<b>Speaker</b>	<b>Topic of Presentation</b>
1520 h - 1535 h	Mr Ritwik Anand, Member Secretary ETD 20 - Bureau of Indian Standards	Overview of Standardisation work in ETD 20 Committee & New National Electrical Code of India, SP 30
1535 h - 1600 h	Mr Amitabha Sarkar , Schneider Electric India Ltd	Protection for safety and Electrical Installations at Special locations
1600 h - 1625 h	Mr Gopa Kumar, M/s Cape Electric India Ltd	Wiring Installation & System Earthing
1625 h – 1650 h	Mr Hemant Sali, International Copper Association India	Electrical Installations at Generating sub-stations and Special provisions for High rise buildings.
1650 h - 1715 h	Q&A Session	

## SEEM NATIONAL ENERGY MANAGEMENT AWARDS 2020

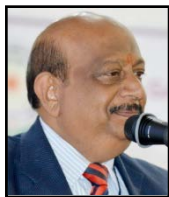
Please **CLICK HERE** to register



## REPORT

## SEEM – Maharashtra Chapter meeting held on 22<sup>nd</sup> October 2020.

SEEM Maharashtra Chapter meeting held on 22<sup>nd</sup> October 2020. Chapter office bearers were elected during this meeting.



Dr. Mohan Khedkar  
Chairman



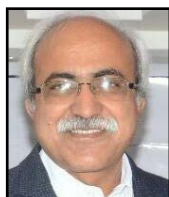
Mr. Puneet Hegde  
Secretary &  
VC-EE Solutions



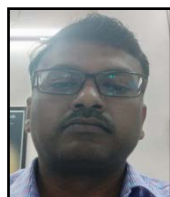
Mr. Sunil Dange  
Treasurer & VC Academics



Mr. Viney Nagdev  
Vice chairman  
Govt. Communications



Mr. Jayant Joshi  
Vice Chairman Industries



Mr. Vijay Chavan  
Vice Chairman - ECBC



Mr. Ajay Arora  
Joint secretary-  
Industries



Mr. Santosh Mestry  
Joint secretary  
Govt. Communications



Dr. Anil Onkar  
Joint secretary  
Academics



Mr. Mohammed Khan  
Joint secretary ECBC



Mr. Sachin Wakhare  
Joint secretary - EE solutions

## SEEM Member was the guest in the Best Grading Test conducted by Japan Karate Association of India

SEEM Member Mr. R. Gopala Krishna was the guest in the Best Grading Test conducted by Japan Karate Association of India in Shantinagar club Welfare Association. Here, Karate coaching has been given to kids to improve self-confidence and health for the past 25 years. Different grades of belts as yellow red and finally black are given depending up on the experience and skill, it is mainly for self defence and not for aggression.



## NEWS

## PM Modi underscores 7 key pillars of India's energy strategy

New Delhi: Prime Minister Narendra Modi today highlighted seven key pillars of India's energy strategy going forward and stressing upon India's rise as a major consumer of energy globally.

"India's energy plan will have 7 key drivers including accelerating efforts to move towards a gas-based economy, cleaner use of fossil, greater reliance on domestic fuels to drive biofuels, achieving the renewable energy target of 450 gigawatts (GW) by 2030, increasing the contribution of electricity to decarbonise mobility, moving into emerging fuels like Hydrogen and digital innovation across all energy systems," Modi said in his address at the fourth annual Indian Energy Forum.

He also mentioned that India has saved around Rs 24,000 crore annually through the installation of 11 million smart LED street lights which have reduced the greenhouse gas emissions by an estimated 4.5 crore or 45 MT of CO2 annually.

Contd. on the next page...





## NEWS

"Due to such interventions, reports have said that India is the most attractive emerging market for clean energy investment," PM Modi said.

He said that India is well on track to meet the commitments made to the global community on climate and that the nation has the lowest carbon emissions than the rest of the industrialised world but will continue to make efforts to fight climate change.

The PM also said the current year has been challenging for the energy sector as demand fell by one-third, price instability and investment decisions impacted. He said while global agencies project that there will be a contraction in global energy demand over the next few years, they project India as a leading energy consumer.

Source: <https://energy.economictimes.indiatimes.com/news/oil-and-gas/pm-modi-underscores-7-key-pillars-of-indias-energy-strategy/78875961>

## Solar tariffs may reach a new record-low once again: Experts

BENGALURU: In a greatly encouraging response, over 5000 MW of bids were received for the 1070 MW solar tender issued by the Solar Energy Corporation of India, which analysts said may lead to record low tariffs.

SECI is the nodal agency through which the ministry of new and renewable energy conducts wind and solar auctions.

In the bid submission that took place Wednesday, almost all the major developers in the country expressed interest in taking part, sources said. "We expect aggressive bidding and possibly a new tariff low in this auction," said Vinay Rustagi, managing director of renewable energy consultancy firm, Bridge to India.

Queries sent to the Managing Director of SECI remained unanswered as of press time..

Experts said that during the early solar auction years (between 2015 and 2017), tenders were heavily oversubscribed in a similar manner. "The past two years were a bit of an exception as many developers exited the market in the face of various execution and financing challenges," Rustagi said.



The oversubscription could be attributed to the demand-supply mismatch that has arisen in the market right now. "As the pace of transition towards renewables is accelerating globally, huge pools of capital have been earmarked for the sector by sovereign wealth funds, international utilities and oil & gas companies etc," he said. But the pace of new auctions has slowed down at the same time.

Developers prefer to participate in plain vanilla solar auctions over hybrid and storage based ones because of technical and execution simplicity, according to Rustagi. The renewable energy ministry has been moving away from conducting auctions for plain solar and wind projects of late.

This tender may have received an overwhelmingly enthusiastic response because Rajasthan distribution companies have agreed to purchase the power. "The usual offtake uncertainty is not there," he said.

Source: <https://energy.economictimes.indiatimes.com/news/renewable/solar-tariffs-may-reach-a-new-record-low-once-again-experts/78943846>

## New battery tech can charge electric cars up to 90 per cent in 6 mins

Seoul: In what could drive Elon Musk to push another tweet, a team of South Korean researchers have developed a faster charging and longer lasting battery material that can juice up electric cars up to 90 per cent in just six minutes.

Unlike conventional cars that use internal combustion engines, electric cars are solely powered by lithium ion batteries, so the battery performance defines the car's overall performance.

However, slow charging times and weak power are still barriers to be overcome.

The research teams of professor Byoungwoo Kang and Dr Minkyung Kim from Pohang University of Science and Technology, along with professor Won-Sub Yoon at Sungkyunkwan University proved for the first time that high power can be produced by significantly reducing the charging and discharging time without reducing the particle size.

"The conventional approach has always been a trade-off between its low energy density and the rapid charge and discharge speed due to the reduction in the particle size," said Kang.

For fast charging and discharging of Li-ion batteries, methods that reduce the particle size of electrode materials were used so far.

However, reducing the particle size has a disadvantage of decreasing the volumetric energy density of the batteries.

Contd. on the next page...



## NEWS

To this, the research team confirmed that if an intermediate phase in the phase transition is formed during the charging and discharging, high power can be generated without losing high energy density or reducing the particle size through rapid charging and discharging, enabling the development of long-lasting Li-ion batteries.

Using the synthesis method developed by the research team, one can induce an intermediate phase that acts as a structural buffer that can dramatically reduce the change in volume between the two phases in a particle.

In addition, it has been confirmed that this buffering intermediate phase can help create and grow a new phase within the particle, improving the speed of insertion and removal of lithium in the particle, the researchers noted

As a result, the Li-ion battery electrodes synthesised by the research team charged up to 90 per cent in six minutes and discharged 54 per cent in 18 seconds -- a promising sign for developing high-power Li-ion batteries.

Source: <https://energy.economictimes.indiatimes.com/news/power/new-battery-tech-can-charge-electric-cars-up-to-90-per-cent-in-6-mins/78868623>



## KKR launches platform to acquire renewable energy assets in India

New Delhi: Global investment firm KKR today launched Virescent Infrastructure, a newly-created platform to acquire renewable energy assets in India. Headquartered in Mumbai, Virescent aims to expand its portfolio of operational renewable energy assets, facilitated by investments predominantly made through KKR's infrastructure fund.

Virescent will identify investment opportunities that have stable cash flows stemming from long-term contracts with state and central government counterparties across India. It currently owns 317 Megawatt (MW) of solar assets located in Maharashtra and Tamil Nadu.

KKR has also entered into definitive agreements to acquire other operating solar projects across three different states. Once closed, these projects will also become part of the Virescent platform.

The company said renewable energy represents a key vertical within KKR's infrastructure strategy and it has invested in renewable energy businesses with more than 10,000 MW of total operational capacity.

"The launch of Virescent is a meaningful milestone for KKR's Asia Pacific infrastructure strategy amid India's ambitions to install 175 GW of renewable energy capacity by 2022 and 450 GW by 2030," said Hardik Shah, a Managing Director at KKR's Infrastructure team.

Virescent is led by Chief Executive Officer Sanjay Grewal, who has over 30 years of experience in the Indian and global infrastructure sector. He will be responsible for identifying, planning, and executing investment opportunities for Virescent.

"Positive government initiatives have created a number of long-term investment opportunities in India's rapidly transforming renewable energy sector. We are thrilled that Virescent will seek to invest in many of these great opportunities, in addition to achieving stable returns by acquiring high-quality, low-risk, and income-yielding assets with stable and long-term cash flows," Grewal said.



KKR's global infrastructure portfolio spans sectors such as energy, transportation, telecom, oil and gas, and water. Virescent additionally deepens KKR's presence in the Indian market, the firm said in a statement.

Source: <https://energy.economictimes.indiatimes.com/news/renewable/kkr-launches-platform-to-acquire-renewable-energy-assets-in-india/78931595>

## Power from renewable sources jumped 31 per cent in October 2020

New Delhi: October could have been a watershed month for India's renewable energy as it recorded 10,025 million units (MU) of power generation from renewable sources, a 31 per cent jump compared to 7,634 MU in the same month last year, according to data from the Central Electricity Authority (CEA).

Total power generation from solar and wind energy sources in October this year from the southern region was the highest at 4,689 MU followed by 1,920 MU generated from the western states, 1,446 MU from northern states and zero generation from the eastern states.

Contd. on the next page...



## NEWS

Renewable energy generation across India remained flat for the April-August period this year at 67,317 MU as compared to 67,344 MU for the same period in 2019.

However, total renewable energy generation for the April-October period in 2020 saw a 3.5 per cent jump and was at 88,758 MU, as compared to 85,774 MU for the same period last year.

National peak power demand in October this year saw a 6 per cent year-on-year (y-o-y) increase whereas energy consumption recorded a 12 per cent y-o-y increase, according to data published by POSOCO recently.

According to CEA data, the peak power demand in October 2020 in the northern region was 58,213 megawatt (MW), 52,688 MW in western, 43,710 MW in southern, 22,845 MW in eastern, and 3,122 MW in the northeastern region. Whereas, the peak demand was 50,119 MW, 50,631 MW, 41,523 MW, 21,726 MW, and 2,989 MW for northern, western, southern, eastern, and northeastern regions for the same month last year.

The overall power consumption has shown an improvement post lockdown easing for economic activities after April 20 this year.

According to fresh data sourced from CEA, India's peak power demand stood at 170,285 MW in October 2020, a 3.2 per cent growth over the peak power demand of 164,936 MW recorded in October 2019. The growth is attributed to resumption of industrial and commercial activities in the post-lockdown period.



Power consumption was 97.84 BU in October last year.

A nationwide lockdown was imposed by the government on 25 March this year to limit the spread of the corona virus pandemic. Following this, a decline in power consumption was observed from March to August as economic activities reduced.

Source: <https://energy.economictimes.indiatimes.com/news/renewable/power-from-renewable-sources-jumped-31-per-cent-in-october-2020/79246092>

## India experienced first decrease in carbon emissions in four decades

New Delhi: Lower energy consumption during the lockdown period related to COVID-19 and a decreased share of coal in the electricity mix has led to the first decrease in carbon dioxide (CO<sub>2</sub>) emissions in four decades in India, according to a recent report.

It added that though temporary, the country experienced a 15 per cent decrease in emissions in March and a 30 per cent decrease in April this year.

According to the report by consulting firm Capgemini, most of the drop in total power demand was borne by coal-based generation, which fell by 15 per cent in March and 31 per cent in the first three weeks of April. While the share of coal in the energy mix decreased from about 75 per cent pre-lockdown to 65 per cent.

It added that the share of renewables in the power mix increased from about 17 per cent to above 25 per cent, especially due to low operating costs and priority access to the grid through regulation.

"Following the lockdown measures, energy consumption fell by about 25 per cent within 10 days due to demand reduction from industries linked to supply chain disruptions and slowdown in demand. The western industrial regional - Gujarat and Maharashtra -- recorded the steepest decline in consumption, where it fell by 35 per cent," said the report titled 'World Energy Markets Observatory report 2020' by Capgemini.

Renewables auctions were maintained during the lockdown, with 2,000 MW of new solar capacity secured at an average cost of \$34 per MW, which was cheaper than the average cost of a unit of electricity from India's biggest coal generator.

To contain the spread of the COVID-19 pandemic, India had imposed a lockdown in March which softened in May this year, though state-imposed local lockdowns continued to be implemented in the following weeks.

Regarding energy demand, the report said that this year the demand was expected to see a 4 per cent decrease compared to 2019.

Source: <https://energy.economictimes.indiatimes.com/news/renewable/kkr-launches-platform-to-acquire-renewable-energy-assets-in-india/78931595>







PANEL DISCUSSION ON

# ENERGY SECTOR: OPPORTUNITIES FOR YOUNG ENGINEERS

society of  
energy engineers  
and managers



 7.00pm-8.00pm  
28th November 2020

Organised by  
**SEEM Kerala chapter**

Co-hosted by  
SEEM student's chapter,  
Amal Jyothi College  
of Engineering, Kanjirappally

## About SEEM

Society of Energy Engineers and Managers (SEEM) India is the national professional body of Certified Energy Managers, Auditors and energy professionals in the country launched in 2005. We are a non-government/not-for-profit organization with 15 chapters and 7 centers, spread over 22 states and engaged in delivering networking and skill development opportunities to its members, by organizing training programs, workshops, etc.

## PANEL MEMBERS



### Dr. P. S. Chandramohan

Former Director of Agency for Non-conventional Energy and Rural Technology (ANERT)  
Former Principal of Govt. Engineering College, Barton Hill, Trivandrum  
Former Principal of Sree Chitra Thirunal College of Engineering, Trivandrum.



### Jayaraman C

Co-founder of SEEM  
Former senior manager BPCL Kochi Refinery



### Madhusuthan K. S.

Deputy General Manager (Special Initiatives),  
Nitta Gelatin India Ltd (NGIL)



### Dhilon Subramanian

Senior Project Associate at WRI India- Energy Program



### C M Varughese

CEO, Ever Green Energy Technologies Pvt Ltd  
Former Engineering Manager, Power Electronics Division, KELTRON  
Former L V Design Manager, Schneider Electric KSA  
Former Managing Director, IGA TECH Industrial Electronics Pvt Ltd

## Register Now



Registration Link :

<https://forms.gle/h3dq3bBuhRznsTgJA>

For more details, Please contact:

Richu Zachariah – 9400770648  
[richuzachariah@gmail.com](mailto:richuzachariah@gmail.com)

Azeem K – 9895558973  
[azeem.alenso@gmail.com](mailto:azeem.alenso@gmail.com)




**NEWS**

# SEEM NATIONAL ENERGY MANAGEMENT AWARDS 2020



## Inspiring Energy Efficiency

Instituted in 2014, SEEM National Energy Management Awards recognize and support best efforts taken by various sectors for improving energy efficiency, thereby supporting India's journey towards climate change mitigation and sustainable development

SEEM National Executive Council invites applications for the prestigious SNEMA 2020

Unlike other awards, SNEMA do not focus on the percentage of energy saving achieved during the assessment year. Instead, systematic actions towards sustainable energy performance are considered for recognition. This approach ensures that assessment does not get skewed based on production levels.

## Who Can Apply?

Applications are sought for the following categories

### Individuals

- Certified Energy Manager
- Certified Energy Auditor

### Award Category Best Performance Awards

*Applications in the category of individuals should be made separately irrespective of the application submitted by organisations in the other categories*

### ENCON Promoters

- Energy Service Companies
- NGOs
- Government agencies
- Registered trusts
- Energy audit firms etc.

### Award Category Best Performance Awards

## Who Can Apply?

### Production, Manufacturing & Service Sector

#### INDUSTRIES

- |                        |                  |
|------------------------|------------------|
| • Aluminium            | • Cement         |
| • Chlor Alkali         | • Pharma         |
| • Fertilizers          | • Petrochemicals |
| • Steel                | • Chemicals      |
| • Textile              | • Glass          |
| • Automobile           | • Tea            |
| • Consumer goods       | • Tyre           |
| • Food processing      | • All others     |
| • Pulp & paper         |                  |
| • Refinery             |                  |
| • Sponge iron          |                  |
| • Thermal power plants |                  |

### Award Category Silver / Gold / Platinum

*Any industry / facility can apply in this category irrespective of size / service / product*

## Who Can Apply?

### Production, Manufacturing & Service Sector

#### FACILITIES

- Banking
- Airlines
- Railways
- IT/ITES
- Hotels
- Hospitals
- Malls
- Educational Institutions
- Business Centers
- Prints/Visual Media etc.

### Award Category Silver / Gold / Platinum

*Any industry / facility can apply in this category irrespective of size / service / product*

### Corporate Houses

- All Corporate or business houses in manufacturing / Services sectors

### Award Category Best Performance Awards

# SEEM NATIONAL ENERGY MANAGEMENT AWARDS 2020

Please **CLICK HERE** to register





## NEWS

# SEEM NATIONAL ENERGY MANAGEMENT AWARDS 2020

## How to Apply

To apply for the awards please register in the pre-registration link for the 1st Level Assessment.

🔗 <https://forms.gle/SNEMA2020>

After PRE-REGISTRATION FOR 1st LEVEL ASSESSMENT, selected participants will be asked to submit the details for evaluation and a Unique Identification Code (UIC) will be issued

Upon receipt of the UID participants can submit all relevant documents along with application fee.

## Fee

Corporate Houses	Rs. 30,000	+18% GST
Industries & Facilities	Rs. 12500	+18% GST
ENCON Promoters/ Energy Audit Firms	Rs. 5,000	+18% GST
Individuals	Rs. 2,000*	+18% GST

\* 50% special discount in individual category for SEEM members

Application will be considered as complete only when the application form along with mandatory enclosures and fee are received at National award secretariat



**Ms. Saranya Mohan**

Coordinator - SNEMA 2020

☎ +91 944 606 7607

✉ [awards@seemindia.org](mailto:awards@seemindia.org)

Society of Energy Engineers and Managers  
National Award Secretariat - SNEMA 2020  
Dr. Azad, General Secretary  
Plot No. 674, Block - I, Near Gaur Shopping  
Square, Govind Puram, Ghaziabad 201013  
Delhi - NCR.

☎ +91 471 - 2557607

☎ +91 9446 067 607

✉ [awards@seemindia.org](mailto:awards@seemindia.org)

🌐 [www.seemindia.org](http://www.seemindia.org)

## How to Apply

### Mode of Payment

- Online payment through our website  
🔗 <https://rzp.io/l/seem-payment>
- NEFT / RTGS Transfer to

Acc. Name : Society of Energy Engineers and Managers

Bank Name : State Bank of India

Branch Name : Kannammoola

A/c No. : 37048528759

IFSC Code. : SBIN0008293

Branch Code : 8293

## Processing of Applications

- Processing of the applications will be start Soon
- Applications will be reviewed by a jury comprised of eminent experts in the Indian Energy Sector.
- Clarifications / Validations by the jury could be part of the review process.

All queries can mailed to :

✉ [awards@seemindia.org](mailto:awards@seemindia.org)

addressing Mr. Jayakumar Nair (Chairman - SNEMA & Vice president-SEEM - SEEM)



## SNEMA Highlights

<https://youtu.be/rcxKpwgjiyw>





## NEWS

# SPONSORSHIP DOSSIER

## SEEM NATIONAL ENERGY MANAGEMENT AWARDS 2020

Society of Energy Engineers and Managers (SEEM) is a national network of energy professionals in India, established in 2005 as a not-for-profit society to support and inspire the cause of energy efficiency in various sectors. SEEM network is spread across 22 Indian states with 15 chapters and 7 units, and more than 800 members. Since its inception, SEEM has been carrying forward its objective through international, national and state level programs, publications including exclusive technical magazine "energy manager", monthly e-newsletter "SEEM News", and other initiatives.

SEEM proposes to organize its 6th edition of SEEM National Energy Management Awards 2020 Ceremony in New Delhi during September 2020

The award ceremony will be attended by about **500-600 energy auditors and managers** from across the country, representatives from large/small industries and government agencies like SDAs, DCs and other working energy professionals from various industries.

This event is being held as part of the efforts to encourage and motivate Certified Energy Auditors, Certified Energy Managers, Energy audit firms, Industries and facilities who have made remarkable initiatives to promote energy conservation in Indian organizations during the year 2019 - 2020

SEEM India is organizing a training cum exposition program in tandem with the National Energy Management Awards Ceremony to familiarize genuine service/equipment system providers to an interested group of energy industry professionals. It is a felt need assessed by energy auditing fraternity that many genuine energy saving equipments, services and measurement devices and monitoring systems still remain unexposed to a large sections of energy professionals who still grope in dark or play into hands of black sheep.

We will be giving opportunity to 15-20 selected Energy Efficient Equipment /Energy Monitoring Equipment/ Energy Service provider during this function to present their product after an initial scrutiny of experts. Those who are willing to undergo this process of endorsement will be given an opportunity to show case their product through various Forums of SEEM (Such as Print Magazine, Web, Monthly news letter etc.) other than the venue where presence of more than 300 experts are assured, at a very reasonable cost.

### SNEMA Highlights

<https://youtu.be/rcxKpwwgiyw>

We request you to be a part of the SEEM National Energy Management Award function by availing various sponsorship options as per the details given in the website and register.

We are keen to work out best option for your organisation, once we receive your preference at the earliest as to how you would like to exploit this opportunity. For leveraging branding, sponsorship and exhibition opportunities, write to [awards@seemindia.org](mailto:awards@seemindia.org) or call at 9446067607 / 0471-2557607.

**For more details and register for sponsorship please click the link**

<http://seemindia.org/sponsorship/>







## NEWS

## Employability Skill Certificate Course - Infra 4.0 for Fresh and Budding Engineers

### Certificate Course in INFRA 4.0

- ❖ Starting date for each module is flexible
- ❖ Candidates will be intimated separately
- ❖ Classes in weekends

#### COURSE MODULES

1. Digitalization in Protection System
2. Digital Substation
3. Basic of Power System
4. Basics of Energy Management
5. EV & Charging Infrastructure
6. High Performance Buildings (Green Buildings)

#### COURSE FEES

- INR 6,000/- per Module

#### COURSE DETAILS

- **DURATION** : 2 Weeks per Module
- **MODALITY** : Online Sessions, Factory Visits, Industry Ready Courses & Remote hands on training.
- **AWARDS** : Certificate of Completion



**SIEMENS**  
Ingenuity for life

society of  
energy engineers  
and managers  
**seem**

**GreenTree**  
Define . Design . Deliver

Connect with us  
+91 9446067607  
[seemhq2011@gmail.com](mailto:seemhq2011@gmail.com)


**PAYMENT for COURSE**  
<https://forms.gle/dWKf9LAhFKnbev4q7>

Energy Management Centre, Kerala is organising its next Panel Discussion on IoT and Energy Management in Association with Energy Manager Magazine of SEEM on 24<sup>th</sup> November 2020 at 10:30 AM to 12:00 PM. Dr. Rangan Banerjee, Professor IIT, Bombay is presenting the Keynote Address. Mr. Deepak Chandran, President and CTO, Iris Energy LLC, USA and Dr. C S Azad, General Secretary, SEEM & Chief Editor, Energy Manager are the other presenters.

IoT tools help EMS (Energy Management System) collect and analyze real-time energy consumption data. In addition to constantly monitoring the equipment to improving maintenance and prevent downtimes, IoT powered EMS tools measure energy usage and flow via a network, providing valuable insights that can improve energy consumption efficiency in many ways.

For registration and more details please contact Mr. Ijas MA, Energy Technologist, EMC, Kerala on 09400068322 or scan the QR code given in the brochure.

## Panel Discussion on IoT and Energy Management on 24<sup>th</sup> November 2020 at 10:30 AM





### Panel Discussion on IoT and Energy Management

**24 November 2020, Tuesday  
10:30 AM - 12:00 PM**

#### Keynote Address



**Dr. Rangan Banerjee,**  
Professor  
IIT, Bombay

#### Presentations

#### IoT in Energy Management - Practical aspects and Case Studies



**Mr. Deepak Chandran**  
President and CTO, Iris Energy  
LLC, USA

#### Energy Conservation in IoT - The concept of Green IOT



**Dr. C S Azad**  
General Secretary, SEEM &  
Chief Editor, Energy Manager

Scan for registration



**Energy Management Centre - Kerala**  
Sreekaryam P O, Thiruvananthapuram - 695017  
0471 2594922, 24  
[www.keralaenergy.gov.in](http://www.keralaenergy.gov.in)  
1800 425 5256

For details:  
Ijas M A  
(Energy Technologist)  
+91 9400068322





## SEEM Individual Memberships Fee & Benefits

Sl.No	Membership Category	Membership Fee	Annual Fee	Total Amount (Including tax)
1.	Annual Membership / Annual Associate Membership	Rs. 2500	Rs. 500	Rs. 3540
2.	Annual Fellowship	Rs. 3000	Rs. 1000	Rs. 4720
3.	Life Membership	Rs. 6750	Not Applicable	Rs. 7965
4.	Life Fellowship	Rs. 12,000	Not Applicable	Rs. 14160
5.	Student Membership	Rs. 500	Rs. 500	Rs. 1180

### Who can join SEEM?

- BEE Certified Energy Auditor
- BEE Certified Energy Manager
- Engineers working in energy related field holding a position of high responsibility with minimum 20 years experience
- Any Degree/ Diploma holders working in the field of Energy Efficiency/ Energy Conservation/ Renewable Energy for the last two years
- Engineering students and students who would like to do research or undertake projects in the energy sector

### Benefits to Members

- Opportunities to get your case studies published in SEEM print magazine "Energy Manager"
- Opportunities to publicize your efficiency initiatives in the monthly e-newsletter SEEM News
- Speaking / Presentation opportunities at various forums
- Opportunities to constructively participate in various discussions in the energy sector
- Opportunities to become a SEEM Trainer / Expert Faculty
- Opportunities to become a SEEM Mentor for Student Chapters
- Leadership and participation opportunities in various SEEM programmes
- Networking opportunities with many energy professionals from across the country
- Knowledge enhancement platform in the energy sector
- Right to cast vote at the SEEM Annual General body Meeting
- All communications, which includes: notices about meetings, invitation to events, announcements about the SEEM activities.
- Priority to participate in funded projects carried out by SEEM in the energy sector, on the terms and conditions appropriate to such projects
- Support for addressing relevant grievances

- An opportunity for cross-fertilization of ideas with access to lessons learnt by others

### Discounts available to SEEM Members:

- Upto 50% discount on registration fee for seminars / workshops and other training events conducted by SEEM.
- Opportunity to attend workshops and trainings by third parties at special rates offered to SEEM Members
- A discount of 50% on priced publications brought out by SEEM
- Upto 50% discount on applications to SEEM National Energy Management Awards every year
- Discounts on any other programmes/ products or services offered by SEEM

### Your membership kit includes:

- SEEM membership ID card
- SEEM Membership Certificate
- Subscription to SEEM print magazine Energy Manager
- Subscription to monthly e-newsletter SEEM News

### Membership Categories & Eligibility

Category	Eligibility
Member	Energy Manager / Energy Auditor certified by Bureau of Energy Efficiency
Associate Member	Any diploma / degree holder who is working in the field of energy efficiency/conservation/ renewables for the last two years.
Fellow	Engineers working in energy related field holding a 'position of high responsibility' with minimum 20 years experience and who have been certified as Energy Managers or Energy Auditors by the Bureau of Energy Efficiency, Ministry of Power.
Honorary Fellow	Persons who are qualified to be Fellows invited to join SEEM as Honorary Fellows, subject to the approval of the Executive Council.
Student Member	Engineering students or students who would like to do research or undertake projects/studies in energy related fields.



the **best medium**  
to reach  
**great heights...**



energypress

society of  
energy engineers  
and managers



सीमूseem

To read, subscribe and advertise contact :

Energy Press | KRA-A79 | SEEM Bhavan | Kannammoola  
Thiruvananthapuram - 695011 | Kerala | India  
T: 0471 - 3242323 T/F: 0471 - 2557607 M: 9446357607  
E : energymanagerhq@gmail.com www.energyprofessional.in



Forthcoming issue:

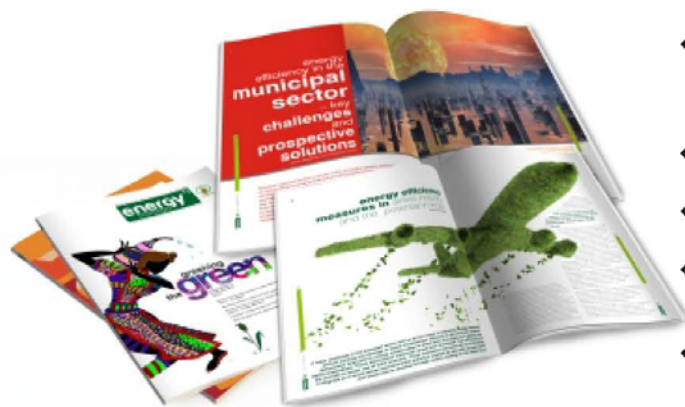
**“Energy Efficiency –Key  
to post Covid recovery  
of MSME’s”**

Subscription Price						
Term	Issues	Individuals		Institutions		Special Offer rate
		INR	USD	INR	USD	INR
1 year	4	1000	45	1500	70	500
3 years	12	2500	115	4000	180	1250





## energy<sup>n</sup> manager. Your medium to succeed.



- ♦ energy<sup>n</sup> manager is the only magazine in India that exclusively focuses on energy efficiency
- ♦ The right blend of high quality articles that appeal to the industry and academia, presented in a layout of exceptional standards
- ♦ Cover feature in each issue focus on one most appropriate contemporary topic on energy efficiency
- ♦ Guest editorial by renowned domain experts
- ♦ Articles contributed by leading personalities in the energy sector
- ♦ Published since January 2008 and circulated in print to more than 5000 readers
- ♦ Brought out by Energy Press, the publishing wing of the Society of Energy Engineers and Managers (SEEM), India

### Readership Profile

- ♦ Accredited ESCOs & Energy Consultants
- ♦ Certified Energy Professionals
- ♦ Consultants, Planners and Architects
- ♦ Distributors and Marketing Agencies
- ♦ EE & RE Equipment Manufacturers
- ♦ Energy Intensive Industries (DCs)
- ♦ Engineering & Technical Institutions
- ♦ International Organizations
- ♦ Political & Executive decision makers
- ♦ Policy Bodies, NGOs

### Editorial Profile

- ♦ Energy management
- ♦ Energy audit
- ♦ Energy financing
- ♦ Research and Innovation
- ♦ Best practices
- ♦ Case Studies
- ♦ Renewable energy
- ♦ Sustainable Living
- ♦ Global focus
- ♦ Focus India
- ♦ Events, and others

### DATA

Title: energy<sup>n</sup> manager  
Language: English  
Pages: 64, 213 GSM  
Frequency: Quarterly  
Print: Four Colour, 8" X 11"  
Circulation: 5000  
Market: International



energy<sup>n</sup>  
manager



### Ad Rates

Options	Size	Published rate (Rs.)	Special discounted rates
Back Cover	Bleed size : 21cmx29cm Trim size : 20cmx28cm Type safe area: 18cmx 24cm	1,50,000	25000
Inside Front Cover		1,20,000	20,000
Inside Back Cover		1,20,000	15,000
Inside Full Page		70000	10,000
Half Page	18cmx12cm	45000	7,500
Inside Quarter Page	9cmx12cm	25000	5,000

**Special Offer: 30 % discount for one year contract**

**Special discounted rates for ads will be valid till 30<sup>th</sup> November 2020**