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seem NEWS

OCTOBER 2022

society of
energy engineers
and managers



Message from President

Greetings of the season!

Whole of India is into the festive season while inflation fears and slow recovery from pandemic blues are still haunting us. It is encouraging to note that new opportunities are emanating out of the geo political developments and the new production linked incentives by our Government has helped revival of manufacturing. The Government also has demonstrated its seriousness in announcing various measures to lead the country towards its net zero ambition. Bureau of Energy Efficiency has exhorted all state Designated agencies to double up their efforts in spreading the efforts of energy conservation to all sectors of economy. This enhanced activities will provide immense opportunities for energy professionals. Let us together deliberate and propose to our respective state SDAs to how we can help them in their priorities and act as extended arms to these SDAs to enable them to achieve their objectives. I request all SEEM members to join in this effort.

Jai hind!

Dr. M.C. Jain
National President, SEEM



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View Point

Mega trends shape future.

Megatrends will have smaller trends which also have impacts on short terms. People who successfully watch and interpret trends and those who follow them will have an advantage to ride these trends and benefit. Megatrends will encompass different domains as the world progresses in multi-dimensions.

Some of the megatrends picked by socio economic experts for 2022- 2025 are

- i) Rapid adoption of technologies continues: Automation in different sectors of economy is fast catching up primarily to enhance efficiency and accuracy and also to make up for labour short fall. This trend is all pervasive in industry, manufacturing, healthcare and education.
- ii) Hybrid work environments become the norm: COVID and aftermath taught the world to handle possible tasks remotely and now the world is getting used to this as convention
- iii) Inflation impacts a wide range of industries: Post pandemic world is already reeling under inflation and all economies are suffering to varying degrees with this phenomenon. Energy industry is also feeling the pressure and energy prices are high and so far the costs are being passed on to the consumer and the demand is still unabated.
- iv) Companies focus on sustainability: World's enhanced environmental concerns have forced enterprises to focus on sustainability. Hundreds of companies report their sustainability performance publicly and thousands of businesses have declared their commitment to go net zero in coming years. Consumer data and survey among executives bring out that sustainability measures improve competitiveness
- v) 5G arrives in full force: The incredible potential of 5 G mobile networks by way of increased speeds, enhanced capacities, low latency and improved service will become the order of the day
- vi) Companies will stay alert on cyber attacks: The energy, financial services, manufacturing, pharmaceutical, and technology sectors are considered very vulnerable to cyber risks. The cyber risks include breach of security, data pilferage, of theft of intellectual property, disruptions etc.

History provides evidence that the organizations and individuals who are able to adapt faster will ride the crest of these trends and come out successful.

As energy engineers, we have a thing or two to learn from all these trends and equip ourselves with new skills and knowledge to fit ourselves into a changed scenario and still continue to deliver. We need brace up fast to tame these trends to our advantage rather than getting overwhelmed by the changes. SEEM will try to help you in your quest to up skill and professionally update the challenges of tomorrow.

G Krishnakumar
Immediate Past National General
Secretary & Chief Operating Officer





PROGRAM

E-Course on Low Energy Air conditioning

Society of Energy Engineers and Managers, Tamil SEEM Nadu Chapter welcomes you to join an E-course on "Low Energy Air Conditioning Solutions". E Certificates will be given to participants on completion of training

Date: 07th November 2022, Monday
Time: 07.00 pm to 8.10 pm IST

Registration Link :

<https://forms.gle/mV4ALZwMUKmp3Fk87>

Topics:

- 1) Energy saving in existing HVAC systems through retrofit
- 2) Energy saving in Air compressors through retrofit
- 3) Enhancing Indoor Air Quality through Low Energy Fresh Air-Cooling Systems
- 4) Hybrid Air Cooling Systems to cool air at lower running cost

Key Takeaways:

- Understanding alternatives to air conditioning and evaporative cooling systems
- State of the art technologies to reduce power consumption in HVAC

**Presenter**

Mr. S N Barathi is an Honors and Post Graduate in Engineering from Madras University with **University First Rank**. Prior to this exposure, he had 5 years of project and maintenance experience at **South India Viscose** plant. He had been selected as a **Energy Expert** under **INDO-EEC** program by the Government of India. He has undergone advanced level fellowship training program in energy conservation in **UK** conducted by **UNDP**. He has been trained in energy efficiency technologies of **M/s.Du Pont, USA**, a pioneer in energy management. He was a faculty for **Bureau of Energy Efficiency**, Department of Power, Government of India. He has conducted energy audits for more than **650** units across India and abroad.

Course Fee (including GST):

(10% discount on the Fee for group registration of 5 and above)

- | | |
|---|-------------|
| • General | - Rs. 500/- |
| • SEEM Members/Faculties
from Educational Institutions | - Rs. 250/- |
| • Students | - Rs. 250/- |

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PROGRAM

Five days Training on Water Audit

A five days training on Water Audit was conducted by SEEM Tamil Nadu Chapter on 10th to 14 October 2022 at 10am to 5pm at ABK AOTS DOSOKAI, Nelson Manickam road, Chennai . This is conducted as per the request of many participants in the e-course on Water Audit conducted during Oct 2021. Around 15 persons were participated from EA/EMs, Industries and Govt. Sector. Dr. Pannir Selvam was the Chief Faculty. Dr. S. Amalraj, Anna University, Er. S.V.Raja, Lehry Valves, Mr. S. Sripathy, IIT, Chennai were the other faculties. Key takeaways of nthe program were Causes, Effects and Control of Non-revenue water (NRW) , Wastewater Treatment Methods, Recycling and Reuse of Wastewater , Zero Liquid Discharge – Methods , Water Audit – Types, Procedure for conducting water audit, Water Conservation, Instrumentation : Smart Flow Meters & Pressure Control Valves, Economic analysis and Payback Period.

Webinar on Efficiency “Behavioural Nudge Techniques for Enhancing Energy”.

Society of Energy Engineers and Managers, SEEM Karnataka Chapter organised a webinar on “Behavioural Nudge Techniques for Enhancing Energy Efficiency” on 08th October 2022 at 07:30 pm to 8:30 pm. Dr. LN Vemuri– Independent Researcher on Role of Behavioural Economics and Nudging in Energy Conservation Practices. .was the presenter of the webinar. The webinar was a step towards bringing in desired results through sharing in-house challenges and developing specific measures for improvement. Practical nudge techniques are planned for developing the conversation and further to tweak as appropriately as possible in order to influence behaviour among different stakeholders.

Condolence meeting in memory of Sri.K.K.George

Condolence meeting held at KSPC ,in memory of Sri.KK George on 11th October 2022 who passed away on 3rd October 2022. This was jointly organised by KSPC, HT-EHT Consumers Association, institution of Engineers, institution of Plant Engineers, SEEM and ECS. Organization leaders remembered valuable contribution George Sir had rendered to different organisations and paid tributes to the departed soul. Mr. George' s Son, Mr. Kurien who was present at the function thanked for organizing the meeting and for the kind words shared during the meeting.

He retired from Hindalco, and was a senior member of KSPC. He was Office bearer for many professional organisations including Institution of Engineers, HT&EHT, SEEM, ECS etc. He was a Life Fellow of SEEM and was the First Chairman, SEEM-Kerala Chapter



SEEM COO Mr. G Krishnakumar is talking during the condolence meeting of Sri. K. K. George



REPORT

BEE Refresher Course in Ahmedabad & Hyderabad

Society for Energy Engineers & Managers (SEEM) organised a BEE refresher course in Ahmedabad on 15th & 16th October 2022 at Ahmedabad Management Association, Ahmedabad, Gujarat. It is the 13 program in this series. Around 20 participants attended the course. Mr. Jayesh Darji from SEEM Gujarat Chapter coordinated the program. Experts in our SEEM Members were the faculties of the program. The program ended with the assessment test conducted by NPC.



Course going on at AMA hall, Ahmedabad



Participants of Ahmedabad Refresher Course

SEEM organised its 14th BEE refresher course in Hyderabad on 15th & 16th October 2022 at The National Small Industries Corporation (NSIC), Hyderabad. Around 20 participants attended the course. Mr. Muthukumaran, SEEM Hyderabad Chapter coordinated the program. Experts in SEEM Members were the faculties of the program. The program ended with the assessment test conducted by NPC.



Participants of Hyderabad Refresher Course



Course going on at NSIC hall, Hyderabad



REPORT



16 SEPTEMBER 2022

SEEM Award Event

Award video Link:

<https://youtu.be/2Jl6eHV7MBM>



REPORT

SNEMA 2021 Highlights...





Opportunities in SEEM

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2. Get updated professionally and on sustainability
3. Show case your passionate self as Faculty in SEEM programs
4. Get elected as a leader – State and National Levels
5. Write for SEEM's Energy Manager Magazine. Be on editorial forum
6. For a creative media person, SEEM is the right place
7. If you a PR person for sustainability – SEEM is your hometown !
8. Be an ambassador for the right organisation to win SEEM Awards
9. Be a member of delegation on international exchange programs
10. Work on international programs as a team member, leader
11. Work as Energy Auditor, lend your instruments, resource persons
12. Work for energy surveys, policy studies
13. Work on chapter and membership development
14. Work for student chapters – existing and create new ones
15. Create new state and international chapters
16. Collaborate with SEEM for professional programs, studies



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SEEM's aim is to provide a clean and green earth by integrating energy efficiency and conservation of natural resources into activities

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- Immense & distinctive initiatives
- Students to establish & flourish their skills in the Energy sector
- Create opportunities for industry professionals, consultants, entrepreneurs, experts
- To create skill development opportunities to members
- Organizing training programs, workshops
- Organizing technical digest service
- For Certified Energy Managers
- For Auditors and energy professionals
- Organize energy related research
- Energy Equipment Manufacturers, Distributors, Marketing Agencies

Present Network of SEEM



- More than 2567 energy industry professionals
- A network with International / national energy agencies; state designated / nodal agencies and non-government organizations
- Building a network of student chapters



2567 Energy Professionals



National Presence
22 states



15 Chapters &
7 Centers



13 Student Chapters



NEWS

Meghalaya signs agreement with NEEPCO to commission hydro power plants

The Meghalaya government on Tuesday signed an agreement with the state owned North Eastern Electric Power Corporation Limited (NEEPCO) for developing three hydro electric projects.

These projects will be of 235 MW.

Deputy Chief Minister Prestone Tynsong, who also holds the Power Department, after the agreement signing ceremony, said that the NEEPCO under the agreement would set up the Umiang stage 1, stage 2 and stage 3 hydro power plants.

The Umiang stage 3 is in the final stage and NEEPCO is expected to start the implementation process soon.

Both Stage-I and Stage-II would cost around Rs 1,750 crore with 70 per cent loan.

Tynsong said that he told the NEEPCO officials and engineers to ensure that the signing of an agreement on Tuesday should not remain in the paper but should be made into a reality at the earliest.



Source:

<https://energy.economictimes.indiatimes.com/news/power/meghalaya-signs-agreement-with-neeeco-to-commission-hydro-power-plants/95089355>

NTPC public relation officer Saibal Ghosh said the plant is using air cool condenser. "This technology is being used as the area lacks water to carry out the cooling process. This will reduce water requirement by 80% compared to the conventional power plant," he added.

An NTPC press release said the leadership of regional executive director (east zone-2) A K Goswami and chief manager Tajinder Gupta played a crucial role for this development.

"Power generated at the plant will be sent to national grid," added Ghosh. The project was originally proposed in 1999 but got delayed as Coal India Limited (CIL) objected to the location of the power plant, which was coming up on a site with 6 billion tonnes of coal underneath it.

"Power generated at the plant will be sent to national grid," added Ghosh. The project was originally proposed in 1999 but got delayed as Coal India Limited (CIL) objected to the location of the power plant, which was coming up on a site with 6 billion tonnes of coal underneath it.

CIL withdrew the coal linkage to the plant in 2008. In 2013, the Centre decided against the relocation and the coal linkage for the plant was restored. The foundation was laid in August 2014.



Source:

<https://energy.economictimes.indiatimes.com/news/power/north-karanpura-power-plant-eyes-dec-launch-ntpc/95089099>

North Karanpura power plant eyes Dec launch: NTPC

Chatra: The first unit of the 1980MW North Karanpura power plant underwent a trial run and generated power from its 660MW unit on Friday evening.

National Thermal Power Corporation (NTPC), which took almost 22 years to reach this stage, described the development as "big". Foundation stone of the plant was laid on March 6, 1999, by then Prime Minister Atal Bihari Vajpayee at Tandwa here.

With efforts on to invite Prime Minister Narendra Modi to the inaugural function, NTPC officials hope that the first unit will start commissioning in December



NEWS

Bengaluru: Bescom gives rooftop solar systems the cold shoulder

BENGALURU: Green energy might be the flavour of the season but Bangalore Electricity Supply Company (Bescom) has swung the other way. Not only has it been lax in spreading awareness on a central government scheme that provides a rebate on rooftop solar installations, but the supply company has also been tardy in processing applications.

The Centre's Saura Gruha scheme provides a rebate of up to 40 per cent for installations with a capacity of up to 3kW and 20 per cent for capacity that exceeds that. However, since 2019 when the scheme was first announced, Bescom reportedly received 1,200 applications until February 2022.

When TOI checked with the electricity supply company, applications had gone up to 1,486 as of October 2022. Renewable energy enthusiasts say the primary reason for this total lack of enthusiasm are the power purchase agreements (PPAs) Bescom has signed with large-scale solar power generators.

EESL is a joint venture of four power sector public sector undertakings NTPC Limited, Power Finance Corporation Limited, REC Limited and POWERGRID Corporation of India Limited. It focuses on solution-driven innovations in the power sector.

But some Bescom officials say demand for the scheme has picked up substantially and people are approaching empanelled vendors. "Currently, we have empanelled eight vendors to instal rooftop solar. There was a slight delay in completing the tender process to bring vendors on board and that led to a delay in implementing the scheme," said a Bescom official.

Meanwhile, many private consumers say they have been eagerly awaiting clearances from Bescom to install rooftop systems. Pradeep, a techie and former member of the Bescom Citizen Participatory Committee (BCPC), said Bescom needs to increase adoption of the Saura Gruha scheme so that citizens can choose sustainable sources of electricity and create a greener Bengaluru.

He said even the 8 per cent transmission and commercial loss can be eliminated if power is sourced from local Bengalureans who have installed rooftop solar panels. When contacted, D Nagarjuna, Bescom technical director, said the company will "relaunch" the scheme soon. "Bescom is quite keen to implement the scheme although power purchases from residents will be minimal compared to demand requirements," Nagarjuna said. "We will announce the scheme after the festival season."



Source:

<https://energy.economictimes.indiatimes.com/news/renewable/bengaluru-bescom-gives-rooftop-solar-systems-the-cold-shoulder/95088937>

Chandigarh: Sector 43 bus stand to get rooftop solar power plant

CHANDIGARH: In order to generate clean power, it has been decided that a rooftop solar power plant will be installed in the parking lot of ISBT Sector 43. The total capacity of the plant will be 500 kWp and it will consist of two plants. The first plant will have a capacity of 200 kWp, while the second will be of 300 kWp.

The project will cost around Rs 2.62 crore and is expected to be completed within four months after the work is allotted. Both the main buildings of ISBT-43 and ISBT-17 rooftops already have solar power plants, which were installed in 2016. ISBT-17 plant has the capacity of 300 kWp, while ISBT-43 has 200 kWp. "We have floated a tender for designing, manufacturing, supplying, testing and commissioning of a 500kWp grid connected rooftop SPV power plant at the two parking lots in ISBT-43. Under the tender, the firm will also have to operate and maintain the plant for 10 years," said a senior UT official.

The work will be undertaken under the supervision of the Chandigarh Renewable Energy and Science & Technology Promotion Society (CREST). CREST will also be installing another, a smaller capacity rooftop solar plant at the Mahatma Gandhi State Institute of Public Administration, Sector 26. Notably, CREST has speeded up the augmenting the installed capacity of the solar power plants in the city with an aim to meet the target of 75 MWp by August 15, 2023. The target will be achieved in a phase-wise manner — 57 MWp by December 31, 67 MWp by March 31, 2023, and 75 MWp by August 15. Currently, power plants with a total capacity of 51 MWp are being installed. Recently, it also initiated the setting up of a 2 MWp canal-top solar power plant on N-Choe near Garden of Conifers in Sector 52. It will cost around Rs 11 crore. Another canal-top power plant is to come up on Patiala Ki Rao.

A 2 MWp solar power plant will also come up at the Sector 39 water works.

Source:

<https://energy.economictimes.indiatimes.com/news/renewable/chandigarh-sector-43-bus-stand-to-get-rooftop-solar-power-plant/95098345>



NEWS

Tata Power Solar Systems launches off-grid solar solutions in West Bengal, Bihar, Jharkhand

New Delhi: Tata Power Solar Systems on Wednesday announced the launch of cost-efficient solar off-grid solutions in West Bengal, Bihar and Jharkhand. Tata Power Solar Systems Ltd (TPSSL) is a wholly-owned subsidiary of Tata Power Renewable Energy Ltd (TPREL).

The off-grid solutions provide a combination of high-efficient solar modules, inverters and batteries and are available in 11 variants ranging from 1 - 10 Kw with 5-year warranty, a company statement said.

The solutions offered by the company are engineered to provide an efficient integrated power system to consumers for their power backup requirements in times of grid supply shortages.

The solution was unveiled in the presence of S Suresh Kumar, Additional Chief Secretary, West Bengal; Partha Pratim Mukherjee, Director (Distribution), West Bengal Power Development Corporation Ltd and Nayak, Director (EV), West Bengal Power Development Corporation Ltd in Kolkata.

These solar off-grid solutions are charged during the day time and enable consumers access sustainable electricity by reducing their reliance on costly and polluting alternatives like diesel generators during night time and outages..



Source: <https://energy.economictimes.indiatimes.com/news/renewable/tata-power-solar-systems-launches-off-grid-solar-solutions-in-west-bengal-bihar-jharkhand/95110481>

Andhra Pradesh: Power utilities in state on capacity expansion spree

Visakhapatnam: The power utilities of the state have concentrated on enhancing power generation capacity and reducing transmission and distribution losses.

Chief minister YS Jagan Mohan Reddy will inaugurate Sri Damodaram Sanjeevaiah Thermal Power Station (SDSTPS) stage 2 (800 MW) Krishnapatnam plant at Nellore and dedicate it to the nation on October 27.

Meanwhile, the commercial operations of Dr Narla Tata Rao thermal power station stage-V (1x800 MW) is likely to begin in the first quarter of 2023.

This installation capacity augmentation has been planned as the energy department anticipates that the daily demand may increase to 250 million units by March 2023 in Andhra Pradesh. The transmission losses that were around 3.1% in 2018-19 have been reduced to 2.8% this year.

According to the officials, the 800 MW supercritical unit at Krishnapatnam generates 19 million units of electricity per day, coming in handy for the utilities to meet the rapidly increasing electricity grid demand.

The plant uses less amount of coal for power generation as compared to the normal thermal power plants. This will also reduce the negative impact on the environment. The stage-2 unit of SDSTPS has been designed to run entirely on domestically produced coal, which would help reduce the cost of power generation.

The SDSTPS plant is the first supercritical thermal power plant in the country in the public sector. In the first phase, two 800 MW units were launched. The Covid-19 pandemic has delayed the project works.



State energy minister Peddireddi Ramachandra Reddy visited the SDSTPS Krishnapatnam plant to review the arrangements for the Chief Minister's visit to the plant on Wednesday.

He chaired a meeting with special chief secretary for energy, K Vijayanand, APGenco MD B Sreedhar, and other energy department officials to review the power generation and supply position.

"The thermal power generation plant at SDSTPS Krishnapatnam stage 2 (800 MW) and Dr NTTPS (800 MW) at Ibrahimpatnam will be a major step towards enhancing the power generation in Andhra Pradesh. This will help the utilities meet the rising energy demand and provide 24x7 power supply to the consumers," said Ramachandra Reddy.

Whatever the major initiatives taken up by the state government such as procurement of power from SECI, construction of integrated renewable energy projects, installation of smart meters, day ahead energy forecasting model etc., are meant for public service with a motive to protect the public interest only," added the energy minister.

Source: <https://energy.economictimes.indiatimes.com/news/power/andhra-pradesh-power-utilities-in-state-on-capacity-expansion-sprees/95110689>



SEEM Individual Memberships Fee & Benefits

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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

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- BEE Certified Energy Auditor
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- 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

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- Knowledge enhancement platform in the energy sector
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- 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

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- Subscription to SEEM print magazine Energy Manager
- Subscription to monthly e-newsletter SEEM News

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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.
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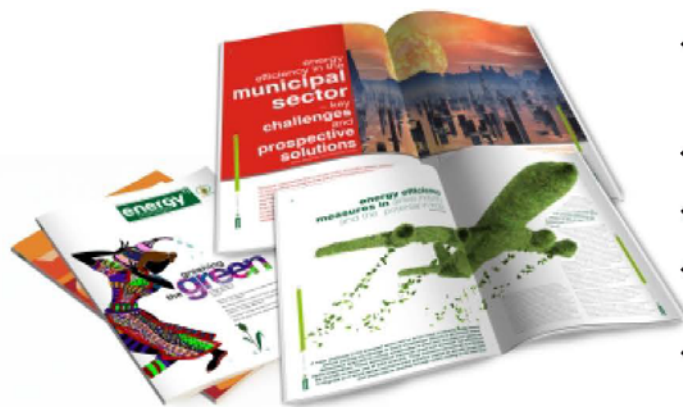
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DATA

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