

Brought to you by **सीम्seem**

seem NEWS

society of
energy engineers
and managerswww.seemindia.org

JUNE 2021

VIEW POINT

The Annual event of India Energy Conclave 2021 and SEEM National Energy Management Award SNEMA-2020 was successfully held as an online function on 26th June. While earlier years we had physical functions, this year it was not practical to hold a physical event and thus we opted for a virtual event. The response was indeed encouraging. This year we could offer the winners an opportunity to speak to the audience too.

The enthusiastic response to our call for nominations underpin the strength of private Industry responses as well as public policy drive which gives immense hope regarding the velocity and reach of energy transition to a net zero carbon economy. Organization after organization were narrating their efforts in reducing their energy intensity and their efforts to achieve sustained strife to improve energy performance. We feel vindicated about our conviction that encouragement will foster involvement and inter alia, performance.

The pressing need for immediate action on transition to sustainable, affordable and universally accessible energy does not need any more sermonising. It is essential to understand the critical measures which will take us through this transition. First and foremost the energy consumption's proportionate growth vis a vis economic growth need to be attenuated. This can be achieved by adopting energy efficiency as a religion. Policy measures can come in as a driver in this effort. But unless a passion and faith is created from within, within the people and then within the organizations, this clamour for efficiency will produce only rituals but not results.

This is where the celebrations of success like SEEM National Energy Management Award (SNEMA) can play a significant role. The detailed achievements are collected from the nominated entities, their personnel are interviewed to understand the ethos of the organization. And above all, our award is to recognize every spark in the direction of improving efficiency and contributing towards containing greenhouse gas emissions.

We also use this occasion to honour personalities who provide vision and take us through the vicissitudes of this arduous journey towards the desired goal of a sustainable future. We at SEEM consider such opportunity to honour such distinguished persons as an honour and privilege to ourselves. Their very presence is inspiring to the whole energy professional fraternity. We wish to continue this journey and reach out to more organizations and personalities in the years to come. With the ardent support of all my brethren in SEEM and those who are yet to join us in SEEM, we are sure to move surely and steadily contributing to our Nation's clean progress.

Congratulations to all winners of SNEMA-2021! Jai Hind!

CONTENTS

[SEEM National Energy Management Awards \(SNEMA\) 2020](#)

[Speeches of Dignitaries](#)

[NTPC to halve coal plants in portfolio by 2032](#)

[Webinar conducted on Energy Management and Home Energy Auditing](#)

[Power regulator puts off enforcing new rooftop solar norms till Sept 15](#)

[SEEM Karnataka chapter conducted webinar on Real Time Energy Analytics](#)

[India experienced first decrease in carbon emissions in four decades](#)

[Webinar on Solar Energy Grid Tied System](#)

[Renew Power plans to double power generation capacity to 20,000 megawatts in five years](#)

[SEEM TN Chapter conducted webinar on Global Warming and its Mitigation](#)

[GAIL looks at petrochemicals, renewables for growth](#)

[Webinar on Global Warming and its Mitigation](#)

[Application of Machine Learning in the Smart Management of Renewable Energy System](#)

[Webinar on A.C.Motors at the center of Energy Use, Efficiency and Conservation](#)

[Webinar on Driving Energy Efficiency through the Industry 4.0 Approach](#)

[Grid Modernization: Renewable Energy and Smart Grid System](#)

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 Management 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

Immediate Past President

Mr. UVK Rao

Immediate Past General Secretary
Mr. G. Krishnakumar

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



SEEM National Energy Management Awards (SNEMA) 2020

SEEM National Energy Management Awards (SNEMA) 2020 were presented on 26th June 2021 as virtual event. Mr. Padu S Padmanabhan was the Chief Guest of the award function. Dr. Ashok Sarkar Senior Energy Specialist World Bank, Mr Rakesh K Rai Secretary, Bureau of Energy Efficiency (BEE), Ministry of Power, Govt. of India and Mr. Ma Dingping Secretary General, CCRES, China were the guests of Honor. Platinum, Gold, Silver and Best Performance awards in various sectors of different categories like industries, facilities, corporates and individuals were conferred on the winners selected by the national jury appointed by SEEM. This has been the 6th version of SNEMA; in the previous years the award functions were held in New Delhi. 70 industries & facilities more than 160 nominations were received by SEEM for SNEMA 2020.

Lifetime Contribution Award was conferred on Mr. Padu S Padmanabhan, Former Program Director South Asia Regional Initiative for Energy Integration / Senior advisor USAID. Allianz Technology SE along with Allianz Services Pvt Ltd, Hindalco Industries Ltd, Renukoot, Delphi-TVS Technologies Limited, Mannur, BILT Graphic Paper Products Ltd, Ballarpur Unit, Maharashtra, Ultratech Cement Ltd. (Unit: Birla White), Shree Digvijay Cement Company Ltd, Jamnagar, Gujarat, JKCement works, Mangrol, Rajasthan, Orient Cement Limited, Devapur, Telangana, Allianz Services Pvt Ltd, Trivandrum, Kerala, JK Tyre & Industries Ltd, Chennai Tyre Plant, Tamil Nadu, Jindal Stainless (Hisar) Limited, Haryana **won the Platinum Awards.**

ICICI Bank Limited, Mythree Tower, Bangalore, Karnataka, Birla Century (A Div. Of Century

Textiles & Ind.Ltd.), Gujarat, Ipca laboratories Limited, Ratlam, Madhya Pradesh, Vedanta Limited, Smelter Plant-1, Jharsuguda, Odisha, KEC International Limited, Jaipur, Rajasthan, Hanon Automotive Systems India Pvt. Ltd, Tamil Nadu, Schneider Electric India Pvt Ltd, Bangalore, Malabar Regional Cooperative Milk Producers Union Ltd, Milma, Kozhikode, Kerala, Tata Coffee Limited, Chittor Cement Plant (Nuvoco Vistas Corporation Limited), JK White Cement Works, Rajasthan, Birla Corporation Limited Units: Chanderia Cement Works, Rajasthan Vedanta limited, Smelter # 2 Special Economic Zone, Jharsuguda, Allianz Technology SE, Pune Maharashtra, Vedanta Limited Captive Power Plant 1215 MW, Jharsuguda Odisha, 234MW Captive Power Plant, Hindustan Zinc Ltd, Chanderia, Rajasthan, JSW Energy Ltd 860 MW Power plant, Vijayanagar, Karnataka, 2x80MW Captive Power Plant, Hindustan Zinc Limited, Dariba, Rajasthan, UNITED BREWERIES LIMITED, UNIT-ODISHA, ITC LIMITED - AGRI BUSINESS DIVISION CHIRALA, Andhra Pradesh, Apollo Tyres Limited, Perambra, Kerala, Apollo Tyres Limited, Kalamassery, Kerala, Carborundum Universal Limited, Ernakulam, Kerala, Dr. Reddy's Laboratories Limited (FTO-SEZ-Process Unit-01), AP, Godawari Power & Ispat Limited, Raipur, Ashok Leyland-Foundry Division, Tamil Nadu, Godrej Agrovet limited- oil palm plantation, Andhra Pradesh, 90 MW CPP Zawar Mines, Hindustan Zinc Limited, JSW Energy Ltd 4 x 300 MW Power plant, Ratnagiri, Maharashtra, Urja Bio System Pvt Ltd, Pune, Maharashtra, VSL PRAYAG ENERGY SYSTEMS & SERVICES, Chennai **won the Gold Awards.**

The Silver Awards went to ICICI Bank Limited, Raja Rajeshwari

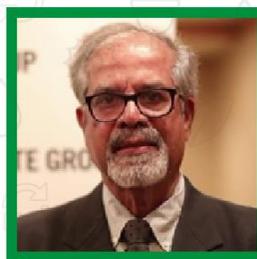
Nagar Branch, Bangalore, ICICI Bank Limited, HRBR Layout branch, Bangalore, ICICI Bank Limited, Haveri branch, Bangalore, Nelcast Limited, Tamil Nadu, DODLA DAIRY LIMITED, NELLORE, ANDHRA PRADESH, DODLA DAIRY LIMITED, PALAMANER, ANDHRA PRADESH, Centum Electronics Limited, Bangalore, Karnataka, KEC INTERNATIONAL LIMITED - NAGPUR, SHREE RAMA NEWSPRINT LTD, SURAT, GUJARAT

Siri Exergy & Carbon Advisory Service P Ltd, Hyderabad, Mr. R K JAIN, New Delhi, Mr. Manoj Kumar Jaiswal, Mr. PRABIN KUMAR JHA, Mr. Sachin Gupta received best performance awards for their energy audit activities.

Best Performance Awards for SDA received by Chhattisgarh State Renewable Energy Development Agency (CREDA), Energy Management Centre, Kerala, and Haryana Renewable Energy Development Agency

The programme started around 3 pm with the welcome speech by Dr. C.S Azad, General Secretary - SEEM. Mr. Mool Chand Jain, President - SEEM delivered the presidential address. A special remembrance session was held in memory of Dr. Jayan Sathaye who passed away on 11th September 2020. Mr. Jayaraman, Former General Secretary fondly remembered Dr. Sathaye's close relation with him and the guidance SEEM received from him. Mr. Jayakumar, Chairman - SNEMA 2020, in his address explained how SNEMA is different from other similar awards. Ms. Gayatri Nair, Award Jury Chief explained the evaluation process and highlighted the efforts to recognize quality and merit. Mr. G. Krishnakumar, SEEM Chief Operating Officer offered the vote of thanks.

Speeches of Dignitaries



Mr. Padu S Padmanabhan

Mr. **Padu S Padmanabhan** Former Program Director South Asia Regional Initiative for Energy Integration / Senior advisor USAID. He gave an awesome speech. He shared his thoughts about the Energy conservation, Energy productivity and why it is relevant to Corporate India. He started with the Energy conservation in the mid of 60's to 70 stating with fuel switch from coal to oil. Then he explained how India progressed by conducting Energy Audit, identifying Energy Efficiency measures, prioritize these measures, most attractive measures and save Energy. He also explained the concept of Energy Productivity and why it is relevant to Corporate India. Energy Productivity is a measure of economic value we

receive from each unit of energy we use and explained the difference between Energy Productivity and Energy conservation. Energy Productivity is simple and powerful tool for a company. He concluded that after this present pandemic, Climate change is the most dangerous intractable and existential threat to mankind. As we all know, it is caused by the emission of CO2 from the combustion of fossil fuels. Net Zero emission of CO2 is the goal for 2 to 3 decades. For that organizations must adopt integrated energy efficiency design principle and provide weightage and consideration to many co-benefits that the organizations enjoy.

Dr. **Ashok Sarkar** Senior Energy Specialist World Bank, he gave an informative speech in the award function to the participants. He explained about the Energy Efficiency - opportunities, Strategies etc.

Energy efficiency is a financially attractive "energy resource" or "first fuel" and also described about multiple benefits of Energy Efficiency. He explained various financing models including ESCO model and explained various challenges and opportunities in ESCO field.



Dr. Ashok Sarkar

Mr. **Rakesh K Rai** Secretary, Bureau of Energy Efficiency (BEE), Ministry of Power, Govt. of India, gave an excellent speech in the award function of SEEM National Energy Management Award (SNEMA) 2020. He explained the ambitious targets in reducing carbon emissions that requires wide spread adoption of Energy saving measures in the country. Civil societies play a significant role in this and he appreciated SEEM that it is playing that role very effectively and professionally. He highlighted some of the BEE flagship programs like PAT, MSME etc. At

present it is PAT cycle 6, it covers more than 1000 energy industries from 13 sectors. On the latest concluded session of PAT Cycle 2 has deducted the energy savings of 13.28 million ton oil equivalent. The quantum of energy saving exceeded the target of 11 ton by about 18 percent. This saving energy is worth Rs. 31 Thousand crore in terms of money and contributed in reduction of 61.34 million ton of CO2 emission. And he mentioned that in future, BEE would like to bring out a similar scheme as the PAT scheme in MSME also.



Mr. R.K. Rai



NTPC to halve coal plants in portfolio by 2032

The company also plans to tap cheaper funds through its pact with National Investment and Infrastructure Fund (NIIF) that was signed a year ago. Country's largest power company NTPC Ltd will reduce coal-based generation to half of its capacity in a decade, while raising the share of renewable power under a publicly-listed arm.

The company plans to list its green subsidiary NTPC Renew-

able Energy Ltd in 18 months as it expects to make Rs 2,50,000 crore investment toward the renewable energy generation capacity addition targets, a senior company official said. He said the equity component would be around Rs 50,000 crore and the balance would be met through long-term loans, debentures and bonds. The company also plans to tap cheaper funds through its pact with National Investment and

Infrastructure Fund (NIIF) that was signed a year ago. NTPC- the first one to declare its energy compact goals as part of the UN High-level Dialogue on Energy-- has committed to set up 60 Gw at an estimated investment of through renewable energy sources by 2032 by when the total capacity is expected to reach 132 Gw. The target has been scaled up from the previous 30 Gw planned by the company till 2032.



Source:

<https://energy.economicstimes.indiatimes.com/news/coal/coal-india-supporting-hospitals-through-setting-up-oxygen-plants-ventilators-availability/82728501>

Webinar conducted on Energy Management and Home Energy Auditing

The Society of Energy Engineers and Managers (SEEM) Student Chapter of Sree Narayana Institute of Technology had organized a power packed and vibrant webinar program on the topic: "Energy Management and Home Energy Auditing". The speaker for the session was Mr. Ijas.M.A, Energy Technologist at Energy Management Center Kerala. The program was conducted via Google Meet platform. The program was started with welcome address by Aswath A, Chair of SEEM SC SNIT. He welcomed Dr. Radhakrishnan.R, the Principal of SNIT and the honorable speaker, Mr. Ijas.M.A, Energy Technologist at Energy Management Center Kerala.

Then he addressed SEEM SC SNIT counsellor, Asst. Prof. Mr. Sarath Kumar.S and HODs from various departments. And finally, SEEM executive members and at the last but not the least, all participants.

Later, the webinar session was taken by the speaker. The main topics discussed in the session were about conserve energy, energy management, energy auditing, home energy auditing, sankey diagram, domestic lighting, luminous efficiency, energy efficiency, pump and it's selection, efficiency of pump etc. After the speaker's talk, a doubt clearing session was conducted. Also, we had received many new topics as

suggestion for the future sessions. And few students have shared the feedback during the session. Then student member of SEEM SC SNIT, Fathima M delivered an extended heartfelt vote of thanks to all present in the webinar. The session was started at 7.00 pm and it came to an end by 8.40 pm.

A total of 174 participants attended the webinar program representing the students, professors and research scholars. The session was really incredible, engaging, informative, inspiring for each and every participants. The speaker had shared his valuable time and knowledge for his audience.



Power regulator puts off enforcing new rooftop solar norms till Sept 15

Bengaluru-based electric vehicle startup Simple Energy announced it will launch its first flagship e-scooter, code-named Mark2, on August 15 this year. Simple Energy was earlier looking to roll out its maiden vehicle model by mid-this year.

The e-scooter will make its

debut in Bengaluru in the first phase, which will be followed by Chennai and Hyderabad, Simple Energy said in a release. The company plans to eventually expand its presence to other cities as well later on, it said. Besides setting up its manufacturing facility in Bengaluru, the metro city also houses its R&D unit.

Suhas Rajkumar, Founder and CEO, Simple Energy, said, "We are thrilled to be announcing the launch date. August 15 is a significant milestone for the nation, Simple Energy aims at creating history with a world-class product made by an Indian company."



The state electricity regulator extended the implementation date of new net metering norms for solar rooftop projects that restricts the benefits only to the household consumers and bars commercial projects having more than 10 kilowatt capacity. The new norms were to kick off from July 1. As per the order issued by Rajasthan Electricity Regulator Commission (RERC), the new norms will be effective from September 15. In the meantime, the Union ministry of power on Wednesday increased the threshold for rooftop solar projects up to 500kw instead of 10kw for net

metering benefits.

In the order dated June 30, RERC said that it has received representations from the stakeholders that due to second wave of Covid-19 pandemic, the implementation of the projects under the different execution stages have come to a halt. They have requested the commission to extend the date June 30, 2021 at least by another three months, it added. In consideration of the representations, the commission said it "directs that the Rooftop and Small Solar Grid Interactive Systems commissioned under Net

Metering agreements upto September 15, 2021, shall continue to operate under the Net Metering arrangement".

Rajasthan Renewable Energy Corporation had written last week to the regulator to extend the date for implementing the new norms till December 31 this year looking at the difficulties the developers have faced. Now, the solar rooftop industry expects the commission to take note of the recent order by the MoP which has allowed net metering benefits to projects up to 500kw

Source:

<https://energy.economicstimes.indiatimes.com/news/renewable/power-regulator-puts-off-enforcing-new-rooftop-solar-norms-till-sept-15/84055210>

SEEM Karnataka chapter conducted webinar on Real Time Energy Analytics



Society of Energy Engineers and Managers, Karnataka Chapter conducted a webinar on "Real Time Energy Analytics" on 12-06-2021 by Mr. Prabhu Perumal, Founder & Director - Einstein Energy Labs Pvt Ltd. Mr. Prabhu Perumal has around has 20+ years of experience with progressive engineering, consulting and management. He works with digital technology to build a platform that integrates inter-operable IoT + Data Analytics connecting energy

stakeholders and consumers to make energy efficiency options and optimize the resource, sustainability, and effectively. Key Take away were

- ◆ Why real time energy analytics
- ◆ Applicable industries
- ◆ Process of real time analytics
- ◆ Case study of a power plant. How to do real time analytics

Webinar was very informative and well accepted by the participants.

India experienced first decrease in carbon emissions in four decades



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 (CO2) 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

Source:

<https://energy.economicstimes.indiatimes.com/news/renewable/power-regulator-puts-off-enforcing-new-rooftop-solar-norms-till-sept-15/84055210>

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.



Webinar on Solar Energy Grid Tied System

Renew Power plans to double power generation capacity to 20,000 megawatts in five years

LIVE WEBINAR

SOLAR ENERGY GRID TIED SYSTEM

Speaker

BERNARD JOSE
Senior engineer at Trane Technologies, ETC Bangalore
Formerly as Design engineer in Entuple technologies private limited

TUESDAY JUNE 8
TIME : 6PM-7PM

REGISTER NOW...
<http://bit.ly/SeemSCSNITwb2>

Google Meet

FOR MORE INFO & REGISTRATION: seemscsnit@gmail.com

ASWANTH A : 7560942788
HELEN SUSAN ISAC : 7306408007



The Society of Energy Engineers and Managers (SEEM) Student Chapter of Sree Narayana Institute of Technology had organized a power packed and vibrant webinar program on the topic, "Solar Energy Grid Tied System". The speaker for the session was Er. Bernard Jose, Senior Engineer at Trane Technologies, ETC Bangalore. The program was conducted via Google Meet platform.

The program was started with welcome address by Aswanth A, Chair of SEEM SC SNIT. He welcomed Dr. Radhakrishnan.R, the Principal of SNIT and the honorable speaker, Er. Bernard Jose, Senior Engineer at Trane

Technologies, ETC Bangalore. Then he addressed SEEM SC SNIT counsellor, Asst. Prof. Mr. Sarath Kumar.S and HODs from various departments. And finally, SEEM executive members and at the last but not the least, all participants. Later, the webinar session was taken by the speaker. The main topics discussed in the session were about off grid solar challenges, solar irradiance and load profile, grid connected PV architecture, grid connection principle, synchronization PLL, control of active and reactive power etc. After the speaker's talk, a doubt clearing session was conducted. Also, we had received many new topics as

suggestion for the future sessions. And few students have shared the feedback during the session. Then activity executive of SEEM SC SNIT, Helen Susan Isac delivered an extended heartfelt vote of thanks to all present in the webinar. The session was started at 6.00 pm and it came to an end by 7.10 pm. A total of 131 participants attended the webinar program representing the students, professors and research scholars. The session was really informative, inspiring for each and every participants. The speaker had shared his valuable time and knowledge for his audience.

Renew Power, India's largest clean energy firm, plans to double its portfolio of running plants and projects under implementation to 20,000 MW in five years, an ambitious growth plan that has cheered its major investor Goldman Sachs. Renew Power, India's largest clean energy firm, plans to double its portfolio of running plants and projects under implementation to 10,000 MW in five years, an ambitious growth plan that has cheered its

major investor Goldman Sachs. The expansion would require an investment of Rs 40,000 crore to Rs 50,000 crore, going by the average cost of projects in the industry, although the company did not share financial details. Project economics vary across the country, depending on the cost of land and the intensity of sunlight or wind. Sumant Sinha-led Renew Power's aggressive expansion is

part of the growing corporate interest in the sector in which Gautam Adani is also expanding his presence with the aim of becoming the world's biggest renewable energy company with a capacity of 25,000 MW. "This year despite the impact of Covid-19, the government has been actively bringing out new bids in the renewable energy space and companies have responded enthusiastically.

Source: <https://energy.economictimes.indiatimes.com/news/renewable/power-regulator-puts-off-enforcing-new-rooftop-solar-norms-till-sept-15/84055210>



SEEM TN Chapter conducted webinar on Global Warming and its Mitigation

SEEM Tamil Nadu Chapter conducted a webinar on the Global Environment Day 5th June 2021. Mr. S. Raju, was the speaker of the webinar. He is a retired Senior Principal Scientist from National Geo Physical Research Institute (NGRI), Hyderabad and currently Guest

faculty at various forums delivering lectures on Global Warming. He is also Freelance Consultant with specialization in Earth Sciences. He is currently working on the following Goals Hyderabad. He explained the concept of

Climate change and mitigation, explained the reason for Global Warming, various Mitigation Measures. Finally he illustrated the various Applications of Bio Energy. The webinar was informative and well attended by the Participants.

GAIL looks at petrochemicals, renewables for growth



State-owned GAIL India Ltd is eyeing expansion in petrochemicals, specialty chemicals and renewables as it pivots a new strategy to expand the business beyond natural gas, its chairman Manoj Jain said. The nation's largest gas marketer and shipper has adopted a revised future blueprint, called 'Strategy 2030' to define its journey through the next decade. "This strategic plan will help us to address our challenges in changing industry scenarios and provide new areas for growth with geographic expansion," he told in an interview.

GAIL transports over 70 per cent of all gas shipped in the country through its network of 13,340-km network of natural gas trunk pipelines. It sells 55 per cent of all natural gas in the country and has petrochemical plants at Pata in Uttar Pradesh and Lepakata in Assam that gives it a 17.5 per cent market share. The firm will convert an existing LPG Plant at Usar in Raigad district of Maharashtra into 500,000 tonnes per annum polypropylene complex with an estimated investment of Rs 8,800 crore by 2023-24, he said

adding the company will explore opportunities in the petrochemicals segment to meet high future demand of polyethylene and polypropylene. "We are also assessing opportunities for certain specialty chemicals in India," he said.

GAIL has a small portfolio of 120 MW of wind and solar power generation capacity which it plans to scale up to 1 GW at an investment of Rs 4,000 crore in next 3-4 years.

Source:

<https://energy.economictimes.indiatimes.com/news/oil-and-gas/gail-looks-at-petrochemicals-renewables-for-growth/84131268>

Webinar on Global Warming and its Mitigation

State-owned GAIL India Ltd is eyeing expansion in petrochemicals, specialty chemicals and renewables as it pivots a new strategy to expand the business beyond natural gas, its chairman Manoj Jain said. The nation's largest gas marketer and shipper has adopted a revised future blueprint, called 'Strategy 2030' to define its journey through the next decade. "This strategic plan will help us to address our challenges in changing industry scenarios and provide new areas for growth with geographic expansion," he told in an interview.

GAIL transports over 70 per cent of all gas shipped in the country through its network of 13,340-km network of natural gas trunk pipelines. It sells 55 per cent of all natural gas in the country and has petrochemical plants at Pata in Uttar Pradesh and Lepakata in Assam that gives it a 17.5 per cent market share. The firm will convert an existing LPG Plant at Usar in Raigad district of Maharashtra into 500,000 tonnes per annum polypropylene complex with an estimated investment of Rs 8,800 crore by 2023-24, he said

adding the company will explore opportunities in the petrochemicals segment to meet high future demand of polyethylene and polypropylene. "We are also assessing opportunities for certain specialty chemicals in India," he said.

GAIL has a small portfolio of 120 MW of wind and solar power generation capacity which it plans to scale up to 1 GW at an investment of Rs 4,000 crore in next 3-4 years.

Application of Machine Learning in the Smart Management of Renewable Energy System



The Society of Energy Engineers and Managers (SEEM) Student Chapter of Sree Narayana Institute of Technology had organized an energetic and vigorous webinar program on the topic: "Application of Machine Learning in the Smart Management of Renewable Energy System". The speaker for the session was Dr. Veena Raj, Lecturer in Info Communication System at the Faculty of Integrated Technologies, University Brunei Darussalam. The program was conducted via Google Meet platform.

The program was started with welcome address by Aswath A, Chair of SEEM SC SNIT. He welcomed Dr. Radhakrishnan.R, the Principal of SNIT and the honorable speaker, Dr. Veena Raj, Lecturer in Info Communi-

cation System at the Faculty of Integrated Technologies, University Brunei Darussalam, he also welcomed Dr. C S Azad, National General Secretary of SEEM, Then he addressed SEEM Student Chapter Counsellor, Asst. Prof. Mr. Sarath Kumar.S and HODs from various departments. And finally, SEEM executive members and at the last but not the least, all participants.

Later, the webinar session was taken by the speaker. The main topics discussed in the session were about importance of artificial intelligence in renewable energy system, efficient management of renewable energy, case study in application of machine learning in solar and wind sector etc. After the speaker's talk, a doubt clearing session was conducted. Also, we

had received many new topics as suggestion for the future sessions. And few students have shared the feedback during the session. Then Joint Secretary of SEEM SC SNIT, Bibin Samuel delivered an extended heartfelt vote of thanks to all present in the webinar. The session was started at 4:00 pm and it came to an end by 5:40 pm.

A total of 140 participants attended the webinar program representing the students, professors and research scholars. The session was honored with the esteemed presence of Dr. C S Azad. The session was really incredible, engaging, informative, inspiring for each and every participants. The speaker had shared her valuable time and knowledge for her audience.

Webinar on A.C.Motors at the center of Energy Use, Efficiency and Conservation

SEEM Tamil Nadu Chapter organizing a webinar on 24th July 2021 on the topic A.C.Motors at the center of Energy Use, Efficiency and Conservation. Mr.S Mahadevan, (BE, MBA, FIE, MIMA, AMT) will be the speaker of this webinar.

Date : 24 July 2021

Time : 6.30 pm - 7.35 pm

SOCIETY OF ENERGY ENGINEERS AND MANAGERS
Tamilnadu Chapter



Society of Energy Engineers and Managers, Tamilnadu Chapter welcomes you to join a webinar on "A.C.Motors at the center of Energy Use, Efficiency and Conservation"



24/07/2021



6.30 pm - 7.35 pm IST

Topics:-

A.C.Motors at the center of Energy Use, Efficiency and Conservation

Key takeaways:-

Forms and uses of Energy

Importance of Electricity and the use of AC Motors for providing Mechanical Energy

Various types of requirements of Mechanical Energy

Energy Efficiency and Energy Efficient Motors

Dimensions of Speed, Loading, Energy Consumption and Efficiencies

Efficiency and Conservation through Efficient Controls

Presenter



Mr. S. Mahadevan, BE, MBA, FIE, MIMA, AMT.

He is a Fellow Member with the Institution of Engineers and a Life Member with SEEM.

He had a long stint of service with the General Electric Company of India Limited and Bharat Bijlee Limited holding senior positions, and stints as Consultant with the Copper Promotion Council of India and AREVA Bioenergy India (Pvt) Limited.

His area of work is energy efficient Motors and during his engagement with Copper Promotion Council of India, he completed a Project of Efficiency Improvement of Motors with Die Cast Copper Rotors, in the Coimbatore Cluster.

His passion is Renewable Energy in General and Bio Energy in particular. During his engagement with AREVA Bioenergy, he was involved in a number of surveys and Technology Promotion in the areas of Biomass Combustion and Technology for production of Bio Oil/ Bio Crude from Biomass.

Joining Link:

<https://us02web.zoom.us/j/81283329347?pwd=RVU1OUhWQ5VjG1K0ThMRkR1T2FIQT09>

Meeting ID: 833 012 0220

Passcode: SEEMTN

For any Support:

Prath Kumar
Mobile : 96771 45418
email : ppraseem@rediffmail.com

Srinivasan
Mobile : 96655 96342
email : srinivasan77@rediffmail.com

Girishwaran
Mobile : 96413 96311
email : g.girish@rediffmail.com

Joining Link:

<https://us02web.zoom.us/j/81283329347?pwd=RVU1OUhWQ5VjG1K0ThMRkR1T2FIQT09>

Meeting ID: 833 012 6220

Passcode: SEEMTN



Webinar on Driving Energy Efficiency through the Industry 4.0 Approach

Society of Energy Engineers and Managers, Karnataka Chapter conducted a webinar on 10th July 2021 on the topic "Driving Energy Efficiency through the Industry 4.0 Approach."

SOCIETY OF ENERGY ENGINEERS AND MANAGERS Karnataka Chapter



Society of Energy Engineers and Managers, Karnataka Chapter welcomes you to join a webinar on "Driving Energy Efficiency through the Industry 4.0 Approach"

July 10, 2021

Time 7.30 pm - 8.30 pm IST

About Webinar:-

- This session presents an approach to drive and implement energy efficiency through the Industry 4.0 Maturity Index, which ensures efficient operations on a continuous basis by monitoring and analyzing operational data pertaining to resource consumption.
- An interactive session and Q&A will be 15 min at the end of presentation

Presenter Sridhar Chidambaram-(Principal Consultant - Advanced Engineering Group- Infosys) Having 19+ years of experience in consulting, implementation of energy management programs and adoption of renewable or clean energy technologies using IoT and autonomous technologies. He led a team of a central command center in Infosys, which is a unique set up to monitor and control remotely over 45 million square feet of smart buildings across India.

He holds M. Tech in Energy Conservation and Management, and a BEE accredited energy auditor. He has published over five journals / white papers and co-authored the book "Handbook on energy audit and environment management."

Registration Link <https://forms.gle/JBbkM69rME3XH1AK9>

For any Support:

Benet George, Secretary, SEEM Karnataka Chapter
+91 9611800893, seemkarnataka@gmail.com

Key takeaway

This session presents an approach to drive and implement energy efficiency through the Industry 4.0 Maturity Index, which ensures efficient operations on a continuous basis by monitoring and analyzing operational data pertaining to resource consumption.

An interactive session and Q&A will be 15 min at the end of presentation

Presenter: Sridhar Chidambaram-(Principal Consultant - Advanced Engineering Group- Infosys) Having 19+ years of experience in consulting, implementation of energy management programs and adoption of renewable or clean energy technologies using IoT and autonomous technologies. He led a team of a central command center in Infosys, which is a unique set up to monitor and control remotely over 45 million square feet of smart buildings across India. He holds M. Tech in Energy Conservation and Management, and a BEE accredited energy auditor. He has published over five journals / white papers and co-authored the book "Handbook on energy audit and environment management."

Grid Modernization: Renewable Energy and Smart Grid System

IEEE SB SNIT & IEEE IAS SC SNIT in collaboration with SEEM SC SNIT brings you ...

a Webinar on

"GRID MODERNIZATION: RENEWABLE ENERGY AND SMART GRID SYSTEM"

19TH JUNE 2021
07:00 PM - 08:30 PM IST

REGISTER NOW! <http://bit.ly/seemieesnit>

JOHN McDONALD
Smart Grid Business Development Leader at GE Grid Solutions

FOR ENQUIRIES
Aswath A : +917560942788
Arun T Neir: +918075512502

Google Meet

IEEE SB SNIT | SEEM SC SNIT | IASB IAS SC SNIT

IEEE SB SNIT | SEEM SC SNIT | IASB IAS SC SNIT

IEEE SB SNIT | SEEM SC SNIT | IASB IAS SC SNIT

The Society of Energy Engineers and Managers (SEEM) Student Chapter of Sree Narayana Institute of Technology had organized an energetic and vigorous webinar program on the topic "Grid Modernization: Renewable Energy and Smart Grid System". The speaker for the session was Mr. John McDonald, Smart grid business development leader at GE Grid Solutions, CIGRE Distinguished Member, IEEE Life Fellow 50 years 6 months. The program was conducted via Google meet platform.

The program was started with welcome address by Aswath A, Chair of SEEM SC SNIT. He welcomed Dr. Radhakrishnan.R, the Principal of SNIT and the honourable speaker, Mr. John McDonald, Smart grid business development leader at GE Grid Solutions, CIGRE Distinguished Member, IEEE Life Fellow 50 years 6 months. Then he addressed SEEM Student Chapter Counsellor, Asst. Prof. Mr. Sarath Kumar.S and HODs from various departments. And finally, SEEM executive members and at the last but not the least, all participants.

Later, the webinar session was taken by the speaker. The main topics discussed in the session were about importance of enabling the effective management and distribution of renewable energy and the smart grid connects a variety of distributed energy resource assets to the power grid. After the speaker's talk, a doubt clearing session was conducted. Also, we had received many new topics as suggestion for the future sessions. And Dr. Radhakrishnan.R, the Principal of SNIT presented a memento to the speaker and HOD of EEE department, Mrs. Lekshmi Nair ma'am handover certification of appreciation to the speaker. Few students have shared the feedback during the session. Then Avarna Mol, Vice Chair, IEEE SB SNIT & IEEE IAS SBC SNIT delivered an extended heartfelt vote of thanks to all present in the webinar. The session was started at 7.00 pm and it came to an end by 8.30 pm.

A total of 438 participants attended the webinar program representing the students, professors and research scholars, The session was really incredible, engaging, informative, inspiring for each and every participants. The speaker had shared his valuable time and knowledge for his audience.



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.