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Message from President

What you do not measure you do not control- the unquestionable dictum goes for many management systems. And when it comes to policy implementation and impact assessment of initiatives in energy transition and climate change control the measurements become complex, especially when they are at gross levels of countries or states. Various international agencies have attempted to develop meaningful indices which can hold out as indicators to the important fact of pending work, which need to be accomplished, considering the aspirational goals of NetZero. In some ratings, our Nation does not hold out a great picture and that remind us of the task ahead of us, especially for the energy efficiency professionals. Our own National policy body NITI Ayog also has brought out state wise indices on climate and energy. The index consists of parameters of DICOM performance, access, affordability, Clean energy initiatives, energy efficiency, environmental sustainability and new initiatives which are further subdivided into 27 indicators. These form the basis of assessment of the states on their energy and climate performance. While lot more fine tuning an happen, this effort definitely help to have some benchmarks. The sates are classified into Front runners, Achievers and Aspirants. It can be seen that the very effort to set the bench marks have set the state agencies mandated for these efforts are finding a healthy competition to strive to improve and better their scores. This is evident from those State Designated Agencies coming forward with more initiatives. A result some have contracted SEEM to collaborate in their efforts. Rajasthan SDA and UP SDA are recent examples. UP NEDA has strengthened this collaboration by signing an MOU with SEEM UP Chapter to associate in various energy measures. We at SEEM look forward to this as great opportunity to serve our Nation and look forward to more states where we can be a part of worthwhile energy transition efforts.

Jai hind !

Dr. M.C. Jain
National President , SEEM



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View Point

Small businesses , NetZero and SEEM

In his message on this edition of the newsletter, our President has briefed on the assessment of climate and energy policies and efforts. Some of the better known international indices are those by

- I. World Energy Council with its World Energy Trilemma Index (WETI) which tracks dimensions in Energy security, energy equity, environmental sustainability, country context dimension. While we rank a non flattering 75 out of 127 assesses, some solace can be derived from the fact that the trend is encouraging.
- II. World Economic Forum with the Energy Transition Index (ETI) and this tracks the nation' energy system information. ETI frame work has two parts, first being , energy system performance assessment based on ability to support growth and development, universal access to secure and reliable energy supply and environmental sustainability across energy value chain. Part two tracks the energy transition on parameters like political commitment, regulatory structure, consumer awareness, incentives for innovation and investment, stable business environment , adoption of new technologies etc. Here also our rank is an unenviable 85 among a universe of 115.

While it can be argued that the method needs refinement, more inclusiveness in data etc it cannot be denied that our efforts fall much short when compared to the hard task of getting our Nation on track to achieve the target of going NetZero by 2070 at least. Though 2070 seems a far target now, if the efforts are not paced up with consistent monitoring and resource support, we may miss this relaxed target even.

The big businesses have understood the importance of decarbonisation and have set out their own targets of Net zero and are already working toward the same. Our own policy supports by way of National Schemes like PAT with its successive successful cycles have been able to set them on the right track.

However the effectiveness of our NetZero dreams will count heavily on the sixty million or there about small and growing businesses adopting decarbonisation and Net Zero strategies at the earliest.

These are barely recovering from the pandemic which devastated many of them during last two years . And already they are starved of funds. On top of it bulk of them do not have a clue on what is to be done. They have to be supported with awareness, competence and funds if our dreams of achieving g Net Zero however far a target is set for it.

This uphill task calls for coordinated efforts of State Government Agencies, Central government bodies and energy professionals. SEEM with its reach among energy professionals is ready to contribute in the Nations imperative of the hour to collaborate with Government bodies to sensitize and empower these small businesses to set them on the green path of growth.

G Krishnakumar
Immediate Past National General
Secretary & Chief Operating Officer





PROGRAM

UPNEDA and SEEM signed an MoU on 18th April, 2022

Uttar Pradesh New and Renewable Energy Development Agency (UPNEDA) and Society of Energy Engineers and Managers (SEEM) signed a Memorandum of Understanding (MoU) on 18th April 2022 for a collaboration to promote capacity building, technical training and research in energy conservation area. On this occasion, a copy of the latest issue of SEEM's Energy Manager Magazine was presented to Sh. Bhawani Singh Khangarot (IAS), Director, UPNEDA, Special Secretary Govt. of UP.

SEEM was represented by General Secretary Dr. C. S. Azad, Er. Ashutosh Shrivastav, SEEM-UP Chapter Chairman, Ex. Executive Director UPPCL, Ar. Anurag Bajpai, Secretary SEEM-UP Chapter, (Green Tree Global).

Sh. Ashok Shrivastav Project Officer in charge of Energy Efficiency and Sh. Ram Kumar Project Officer in charge of ECBC, Green Building were also present apart from senior officers.



SEEM Kerala Chapter Joint Secretary Mr. Aneesh Rajendran spoke at National Health Mission meet. Congratulations, Mr. Aneesh!



We congratulate Mr. Aneesh Rajendran, Joint Secretary, SEEM Kerala Chapter and Energy Technologist – Energy Management Centre (EMC), Kerala for speaking at in the National Conference on Climate Change and Human Health organized by World Health Organization (WHO) / National Programme for Climate Change and Human Health (NPCCHH) In association with World Health Day 2022, at Calicut on 13th April 2022. He presented the latest developments and contributions of Energy Management Centre Kerala as the State Designated Agency of Bureau of Energy Efficiency to support the Health care sector in Kerala through various Energy Efficiency activities including Energy Audits, Energy Efficiency Projects etc. at various health care centres scaling from small Primary Health Centers (PHC) to Large Scale Medical College Hospitals and General Hospitals in a mission to restrain climate change.



PROGRAM

Webinar on “Energy Efficiency Improvement Opportunities in The Process Industry”

Society of Energy Engineers and Managers, Karnataka Chapter organised a webinar on “Energy Efficiency Improvement Opportunities in The Process Industry.” on 09th April 2022, Saturday on 7.30 pm – 8.30 pm. Mr. Sushil Kumar Sharma – Sr. Energy Consultant & Advisor - An accomplished technical expert was the presenter of the who have over 45 years of rich experience in overall strategic management and manufacturing operations, Management of Engineering/ Utility Services, Project Planning and Execution , Safety, Health, Energy and Environment Function etc.

Technical Talk on “Reactive Power Management in Electrical Systems”

SEEM Kerala Chapter organised a technical talk on “Reactive Power Management in Electrical Systems” on 2nd April 2022 at 07:00 pm to 08:00 pm. Er. Aneesh Rajendran, Energy Technologist, Energy Management Centre, Kerala and Joint Secretary – SEEM Kerala Chapter was the presenter. He explained about the Reactive Power Compensation, Types of Compensation, Automatic Compensation and Relation of Harmonics and Reactive Power, etc. Many participants attended the talk.

Coming soon...



**SEEM NATIONAL
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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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"Energy manager" magazine



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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
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- 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



PROGRAM

22nd National Certification Examination for Energy Managers and Energy Auditors on 30th and 31st July, 2022

BEE will hold the 22nd National Certification Examination for Energy Managers and Energy Auditors on 30th and 31st July, 2022 (Saturday and Sunday) Prospectus can be downloaded from www.aipnpc.org as per the instructions given in the website.

- Commencement of online Registration: 3rd May, 2022 at 10:00hrs .
- Closure of online Registration : 03rd June 2022 at 11:59 hrs.

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 Paper 2 – Rs. 1250 + GST
 Paper 3 – Rs. 1250 + GST
 Paper 4 – Rs. 1500 + GST

Total Cost – Rs. 4500 + GST

If you would like to register for all 4 papers, the fees will be only Rs. 4000 + GST.

Topics Of Interest

- Energy Conservation Act 2001 & Related Policies
- Energy Scenario - Global & Indian
- Energy & Financial Management
- Energy Monitoring & Targeting
- Project Management Cycle
- Renewable Energy
- Measurement & Verification
- Material & Energy Balance

For more details and registration, please

Paper 1 [Click Here](#)

Paper 2 [Click Here](#)

Paper 3 [Click Here](#)

Paper 4 [Click Here](#)

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REPORT

Abu Dhabi to launch the first regulated carbon credit trading exchange and clearing house in the world



- ADGM - the first regulator in the world to develop a framework to support carbon as a commodity
- Corporates can trade and finance carbon credits like conventional financial assets
- The world's first fully regulated voluntary carbon exchange and carbon clearing house
- Creating the first regulated Voluntary Carbon Market (VCM) in MENA
- As part of ADGM's proposed framework to recognise carbon as an investment grade commodities emissions instrument and as a regulated spot and commodity derivative.

Abu Dhabi Global Market (ADGM), the International Financial Centre in Abu Dhabi, is pleased to partner with AirCarbon Exchange (ACX) to create the world's first fully regulated carbon trading exchange and carbon clearing house which will be established in Abu Dhabi, the capital of the United Arab Emirates (UAE).

Pursuant to its recently released consultation paper, ADGM is set to become the first jurisdiction globally to regulate carbon credits and offsets as emission instruments, and to issue licenses for exchanges to operate both spot and derivative markets.

The regulatory framework will allow corporates to trade and finance carbon credits like conventional financial assets, thus increasing participation and investment in global carbon reduction and offset programmes.

Expected to launch in 2022, ACX will be established as a Recognised Investment Exchange (RIE) and regulated by ADGM. As a regulated RIE, ACX aims to offer its market participants and customers efficient trading and a regulated transparent price discovery mechanism.

In addition, ACX aims to set up a regulated Recognised Clearing House (RCH) – which will be known as ACX Clearing Corporation - for the purposes of custodising, clearing and settling commodities and commodity derivatives.

ACX intends to initially use its distributed ledger technology within a traditional commodity trading construct to create tokenised carbon credits for spot trading. At a later stage, ACX plans to offer carbon credit futures as commodity derivatives for trading. All digital tokens will be custodised by the RCH, settled and cleared using the RCH's blockchain smart contracts providing efficient settlement for all spot transactions.

It is intended that the RCH, once established and operating within ADGM, will play a pivotal role in other markets and financial instruments, including virtual asset markets, adding vital market infrastructure to the digital trading ecosystem. ACX intends to extend its trading platform offering to include clean energy products, in addition to carbon credits.

His Excellency Ahmed Jasim Al Zaabi, Chairman of ADGM, said: "This is a significant global milestone and another world's first for Abu Dhabi. This initiative reinforces ADGM's commitment and ongoing efforts to cement its position as a leading international financial centre and world-class global commodities and carbon trading hub. We are excited to be partnering with ACX to enable and facilitate trading of high-quality carbon credits, and in that aspect, encourage more companies to reach their decarbonisation goals."



REPORT

As the first country in the Gulf to commit to net zero by 2050, this new trading platform is a further extension of Abu Dhabi's drive to support sustainability ambitions and underlines ADGM's focus on carbon neutrality as an international financial centre."

William Pazos, Managing Director and Co-Founder of ACX & Kevin Iwanaga, COO MENA Region, said: "Abu Dhabi and by extension ADGM, are an integral part of ACX's global expansion. Our recent partnership with the Deutsche Börse Group, expansion into Brazil and our already well advanced full exchange and clearing application in ADGM complement each other to deliver a truly global marketplace from the heart of the MENA region. We are excited to work within a dynamic and forward thinking ecosystem such as ADGM."

Last year, ACX was recognised as the Best Carbon Exchange in Environmental Finance's prestigious Voluntary Carbon Market Rankings. In January, ACX partnered with the UN Framework Convention on Climate Change (UNFCCC) to promote carbon offsetting via UNFCCC Certified Emission Reductions (CERs) to allow clients representing 30 different countries to purchase and retire CERs for their carbon offsetting purposes. It will be the second exchange in the world, and the first in MENA, to list CERs held in the UNFCCC Clean Development Mechanism registry.

ACX aligns with the UAE's goal to accelerate national economic development. Last year, the UAE became the first nation in the Middle East and North Africa to announce a plan to achieve net-zero emissions by 2050. Through the Net Zero by 2050 Strategic Initiative, the UAE aims to attract inflows from global capital markets as investors increasingly seek ESG-compliant investments.

In January 2022, ADGM announced that it had achieved carbon-neutrality status by offsetting its carbon emissions in 2021, which underpins ADGM's commitment to building a progressive and more sustainable economy. It was the world's first international financial centre to become carbon neutral.

World to have over 115 mn energy-efficient buildings in 2022

New Delhi: As energy costs spike, the number of buildings globally deploying smart building technologies will reach 115 million in 2026, from 45 million in 2022, a new report showed on Monday.

This growth of over 150 per cent reflects increasing demand for energy efficiency from businesses and residents alike, according to a new study from Juniper Research.

A smart building uses connectivity to enable economical use of resources, while creating a safe and comfortable environment for the occupants.

The research found that non-residential smart buildings will account for 90 per cent of smart building spend globally in 2026, at a similar level to 2022.

"Smart building platform vendors will understandably focus on non-residential use cases, as these provide a stronger return on investment, but they should not neglect the importance of residential deployments, as environmental concerns intensify," said research co-author Dawnetta Grant.

By enabling buildings to monitor and automate common functions, significant

efficiency gains can be made, while improving the environment for workers and residents.

The research also found that the global shipments of sensors used in smart buildings will exceed 1 billion annually in 2026 from 360 million in 2022, representing a growth of 204 per cent.

Sensors, when combined with intelligent management platforms, will allow smart buildings to adapt to conditions; matching elements such as lighting, heating and ventilation to live requirements.



Source: <https://energy.economictimes.indiatimes.com/news/power/world-to-have-over-115-mn-energy-efficient-buildings-in-2022/90506985>



REPORT

Power situation in whole of India grave, Delhi govt somehow handling situation: Kejriwal

New Delhi: The Delhi government on Friday flagged an "acute shortage" of coal, claiming that many power plants are left with only one day stock and warned of supply disruptions to the national capital, even as Chief Minister Arvind Kejriwal said the situation was being handled somehow.

The chief minister called for quick and concrete steps to tackle the crisis facing the country.

Talking to reporters, Delhi Power Minister Satyendar Jain said there is an "acute shortage" of coal due to unavailability of adequate number of rakes and warned there may be "difficulty" in supply if power plants are shut.

The National Thermal Power Corporation (NTPC), in reply to the Delhi government's claims of shortage of coal at its plants, said in a tweet that currently Unchahar and Dadri power stations, supplying power to the national capital, are running at full capacity and receiving "regular" coal supplies.

"All six Units of Dadri and 5 Units of Unchahar are running at full capacity and receiving regular coal supplies. Present stock is 1,40,000 MT and 95,000 MT respectively and import coal supplies are also in pipeline, NTPC tweeted.

However, Kejriwal claimed the power situation in the whole of India is very grave.

"There is a huge shortage of power in the country. So far we have managed it somehow in Delhi. The situation is very grave in the whole of India. Together we soon need to find its solution. Quick, concrete steps are required to tackle this problem," Kejriwal tweeted.

The NTPC, in another tweet said, "Currently #Unchahar and #Dadri stations are declaring more than 100% rated capacity to the grid. All units of Unchahar and Dadri are running at full load except Unchahar Unit#1, which is under annual planned overhaul."

Amid a deepening coal shortage crisis, the Delhi government on Thursday had warned that there may be problem in providing uninterrupted electricity supply to important establishments in the capital including Metro trains and hospitals.

Jain said the main reason for "huge shortage" of coal was lack of adequate number of rakes. The number of railway rakes has been reduced from 450 to 405 instead of being increased, he said.

The minister also claimed that power plants, including Dadri and Unchahar, had only one day coal stock that usually should be there for 21 days.

He also denied any pending payments of Delhi to the Centre regarding coal supply.

Jain had also held an emergency meeting to assess the situation and wrote to the Centre requesting it to ensure adequate coal availability to power plants supplying electricity to Delhi.

Sources said the Delhi government may scale up generation at its gas based power plant with 1500 MW capacity. However, the cost of gas could be a restrictive factor in doing so, they said.

Delhi receives 1751 MW power per day from Dadri-II, Unchahar, Kahalgaon, Farakka and Jhajjar plants. The capital gets the maximum supply of 728 MW from Dadri-II power station, while it receives 100 MW from the Unchahar station, the Delhi government had said earlier.

The peak power demand of Delhi has been shooting up with maximum temperature reaching up to record levels. The city's power demand peaked at 6050 MW at 11.17 PM on Thursday. The peak demand of Delhi is expected around 8200 MW in the coming months, by discoms.

Source: <https://energy.economictimes.indiatimes.com/news/power/power-situation-in-whole-of-india-grave-delhi-govt-somehow-handling-situation-kejriwal/91176200>



REPORT

Odisha installs solar energy panels in govt schools

Berhampur: Odisha Chief Secretary SC Mohapatra on Thursday inaugurated a solar based energy system in a government-run high school at Narayanpatna in Ganjam district. The Narayanpatna high school in Kankia panchayat is one among 535 government-run high schools in the district that has been taken up by Ganjam district administration to install the solar energy facility with an investment of Rs 9-crore.

In the first phase, the solar panels would be installed in the transformed high schools under the 5T initiatives, where the infrastructure facilities have already been completed, sources said. As many as 366 high schools have already been developed under the 5T initiative.

Additional chief secretary Anu Garg, secretary to the chief minister and 5T V K Pandian, who accompanied the chief secretary to the high school, reportedly praised the district administration for these innovative steps to make a go-green concept in the district schools.

"The work of installation of solar panels is going on in full swing. Thirty high schools have already been covered in solar energy so far and the rest will be completed in the next three months" said Vijay Amruta Kulange, Collector Ganjam. The expenditure for the project will be met through the Corporate Social Responsibility (CSR) funds of different companies and contribution of Mo Schools, he said.

The solar energy generation units will be installed in the schools to provide 2 and 4 kw energy in small and big high schools, he said.

The smart class, four lights, four fans, interactive panel, e-library, laboratory, lights in the toilets and verandah of each school will be illuminated with the solar energy, said Shinde Dattatraya Bhausaheb, project director, District rural development agency (DRDA).

Besides making the schools energy independent, the project will also create awareness on the use of [renewable](#) energy amongst the students. It will also help the schools to reduce their expenditure on power bills.

The electricity bills in the schools have gone up due to the use of interactive panels in smart classes and computers in the e-libraries, set up in all the transformed high schools. The solar energy project will help the schools to reduce their power bills and uninterrupted power supply, he added.

The high level team led by the chief secretary also visited Ganjam and Gajapati districts. They looked into the field level progress of various developmental projects in the districts.

The team reviewed the progress of Ghatakeswar Multi Purpose Irrigation Project being constructed over the river Ghadka with an estimated outlay of Rs 172.06 crore. Reviewing the progress with field level engineers, the chief secretary directed them to complete the project by December this year.

Located at a distance of about 20 km from Berhampur city, this project covered a catchment area of about 23.55 sq km, and would irrigate around 600 hectares of land in Kukudakhandi block. In addition to this, the project would also supply 8.25 MLD drinking water to more than one lakh people in Berhampur city and adjoining areas.

The team also visited Gajapati district and looked into the progress of Chheligada Medium Irrigation and hydro-power generation project. Mohapatra set timelines for different phases of the project.



Source: <https://energy.economictimes.indiatimes.com/news/renewable/odisha-installs-solar-energy-panels-in-govt-schools/91166034>



REPORT

BMC plans policy for charging of electric vehicle batteries in Mumbai

MUMBAI: The BMC on Thursday held its first meeting with various stakeholders on the electric vehicle (EV) charging policy.

BMC officials said while e-vehicles were getting a good response in Mumbai, there was a need for a separate policy for charging their batteries. The city has more than 8,000 e-vehicles. Sunil Godse, deputy municipal commissioner in charge of environment, said discussions are at a nascent stage.

Meanwhile, on Friday, a webinar was conducted by Clean Mobility Shift and Climate Trends which explored possible reasons behind a few EV two-wheelers catching fire lately across the country, gaps in protocols, and how to ensure safety standards for batteries.

Prof Sagar Mitra of IIT Bombay pointed to the need for batteries to have the highest stability standards. Shreshth Mishra, co-founder, Simple Energy, said, "We are a diverse country in terms of temperature, geography, road conditions and riding standards. In so many instances, our two-wheelers are overloaded beyond capacity with 3 to 4 riders. This isn't accounted for in testing."



Source: <https://energy.economictimes.indiatimes.com/news/renewable/odisha-installs-solar-energy-panels-in-govt-schools/91166034>

Punjab power minister orders operationalizing all 4 units of Guru Gobind Singh Thermal Plant

ROPAR: The power minister Harbhajan Singh on Friday visited the Guru Gobind Singh Thermal Plant in order to ensure uninterrupted supply of power and directed the officers to operate all four units of the thermal plant so as to contribute in the task of meeting the demand for supply of power.

He also said that the fourth unit must also be started which was closed since 25 days due to maintenance works. On this, the chairman PSPCL cum MD Baldev Singh Sran assured him regarding the same.

The third unit of GGSSTP Ropar power plant was started on April 28 and now with the fourth unit also starting, the plant would run to its full capacity. This would lead to increasing power generation by 210 MW at GGSSTP Ropar while the 660 MW expansion would be witnessed in respect of Talwandi Sabo plant.

The Minister on the occasion personally took stock of the working mechanism of the plant besides the control room. He also said that it is really unfortunate that the previous governments completely played havoc to ensure the functioning of thermal plant gets halted whereas the congress shut the 2 units of the plant in January 2018 and didn't take any step for their re-commencement. This resulted in the negative effect on power production apart from the many employees losing their jobs.

Assuring the farmers, the Minister said that the power supply would be regularized for which the chief minister Bhagwant Mann led government is trying its level best as is evident from the chief minister meeting Union power minister R.K. Singh in this regard for ensuring uninterrupted power supply during the paddy procurement season.

The minister was also apprised about the demand for more power keeping in view the upcoming paddy season. He disclosed that the chief minister has also requested the Union government to supply power from its own pool besides unhindered supply of coal. The minister also held discussions with the PSPCL officers.



Source: <https://energy.economictimes.indiatimes.com/news/renewable/odisha-installs-solar-energy-panels-in-govt-schools/91166034>



REPORT

Envision Energy awarded 2000 MW wind turbine contract in India

Envision Energy has announced that it has been awarded a 2000 MW wind turbine order in India. The 596 wind turbines, all manufactured in Envision's India factory, will be delivered by the end of 2023.

Envision will supply and commission its state-of-the-art EN156/3.3 wind turbines for the projects. EN 156/3.3 has a 156m rotor - the largest in the country. This rotor is coupled with a 3.3MW generator and a hub height of 140m. This design is uniquely suited to maximize energy produced from the low wind regimes predominant in the country.

Envision invested \$25M USD to establish its 1200 MW-capacity nacelle and hub assembly plant at Pune in 2018. To meet the additional market demand, Envision will be ramping up to double the current capacity. Envision is also building a blade factory in India, which is expected to be completed by Q1 of 2023.

Envision's existing projects in India, the 198MW Khagashree wind farm and 35MW Kagvad wind farm equipped with EN- 131 / 2.5MW wind turbines, have been in operation since May and October 2019 respectively. So far, these projects have generated more than 1.76 billion kWh clean energy for the region.

"Envision India is proud to contribute towards India's commitment to achieve 500 GW and 50% energy requirement from renewable energy sources by 2030. With the growth of our wind and energy storage business, we are expecting to recruit more than 300 employees locally to meet the growing needs of the country as well as the newer markets of the Asia Pacific region." says R P V Prasad, Country Head – India Region.

Kane Xu, Managing Director of Envision India and Global Vice President says, "We are delighted for the confidence our partner in India has in us, and we are proud to continue delivering our best solutions in India. Being an expert in utilizing digital technologies, we can maximize efficiency, save cost, and innovate fast to better serve our customers. In addition to wind power, we are also bringing our energy storage, digital, and other net-zero solutions to our customers, to help accelerate the energy transition, globally."



Source: <https://energy.economictimes.indiatimes.com/news/renewable/envision-energy-awarded-2000-mw-wind-turbine-contract-in-india/91196876>

Indore: Solar panel installation up three-fold in 2 years

INDORE: Pioneer in cleanliness, locals of Indore are now also opting for renewable energy by installing solar panels on their rooftops that have witnessed a rise of three-folds in the last two years

According to discom MD Amit Tomar, Indore city is on the top position in the state in terms of installing rooftop solar energy panels



"Apart from the Central and State Governments, the West Zone Power Company is also making a lot of efforts to promote use of renewable energy with the help of solar panels and therefore, the approval process is also being completed at the divisional level to facilitate the applicants" he said.

According to senior DISCOM officials, Indoreans are attracting towards renewable energy and therefore, are installing solar panels that have recorded a three-fold growth in only two years. As per the records, around 1,000 roofs had two years ago solar panels installed there that increased to 1,400 by April 2021 and close to 3,000 in April this year. Apart from around 2,250 houses in about 500 residential colonies, commercial buildings, government offices, educational institutions, railway station, airport and such other establishments have installed solar panels.

In the summer, the solar panels generate more electricity due to availability of sunlight for more than 13 hours, DISCOM officials claimed.

While Vijay Nagar, Ananda Colony, residential areas around Bombay Hospital and Ring Road in Indore have recorded maximum installation of rooftop solar panels, Ujjain, Ratlam and Dhar district have also recorded locals installing the system respectively at around 600, 200 and 175 places. Besides, installation of net meter rooftop solar systems in Malwa-Nimar region has reached 4,750.

Source: <https://energy.economictimes.indiatimes.com/news/renewable/envision-energy-awarded-2000-mw-wind-turbine-contract-in-india/91196876>



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.



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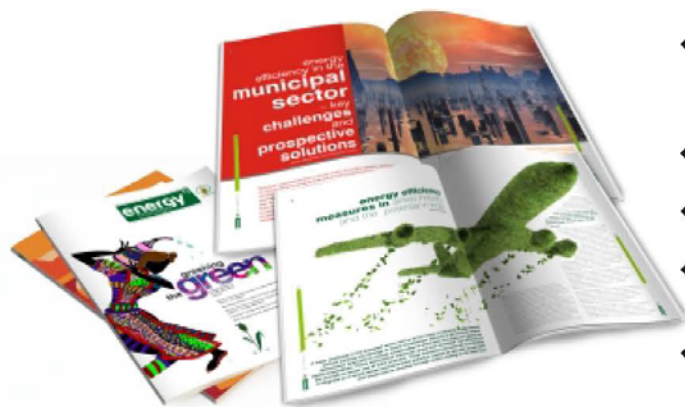
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