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# seem NEWS

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energy engineers  
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## VIEW POINT

Resilience, Sustainability Opportunity for energy professionals.

World Green Building week this year concluded on 24th September. This year the World Green Building Council (WGBC) had coined the theme as 'Building resilience for climate change, people and economies'. The theme could not have been more apt when the whole world is desperately trying to get back to normalcy from the onslaught of the pandemic. And they had imaginatively woven eleven out of the seventeen UN Sustainability Development Goals into the sub themes to drive home the point of sustainability.

Green buildings concept has a major component in energy efficiency and sustainable energy. In itself that should be of great importance to energy professionals. Juxtaposing this interest in energy with resilience in the context of climate change, economies and people wide open many vistas for energy professionals to explore, contribute and thrive.

The arenas for energy professionals to explore come as opportunities in consultancy for energy reduction in building operations, renewable energy possibilities in old and new buildings, research and production in new materials for construction with low embedded energy, innovation in construction methods to lower energy consumption. This can be complemented by channelizing the expertise of energy professionals towards awareness and capacity building among aspiring engineers and even end users.

The buildings are the means to meet space requirements for businesses. Propagation and practice of management systems in businesses to inculcate thinking processes encompassing climate risks along with other risks among business entities will prompt business leaders to imbibe these principles of green buildings when they plan their green field or brown field expansions. Here also energy professionals can expand their horizon to relevant management systems and help the business to build resilience for economies, people and climate change.

It will bode well for energy professionals to look beyond pure technicalities to pick such signals of thoughts and concepts thrown up by leaders in various stakeholder groups – like WGBC throwing up challenge for resilience. This will enable us to be imaginative to put our skills to contribute to the world progress in multifarious ways. I strongly believe that as professionals we are expected to do so as a part of our professional calling. Let me use this opportunity to remind and reiterate the necessity of being alive to the trend signals and capitalize on opportunities and contribute to planet's strife for sustainability.

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



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Technical Support:



Brought out by Energy Press for Society of Energy Engineers and Managers  
SEEM Bhavan, KRA-A79, Kannammoola,  
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## PROGRAM



**THE GT ACADEMY**  
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# PREPARATORY COURSE ON EA/EM EXAMINATION - PAPER 1

**LEARN AT YOUR OWN PACE**

31 Lessons  
Registration Fee: INR 500  
Certificate Awarded



## What Will You Learn?

This is the 21st National Certification Examination of Energy Managers and Energy Auditors, conducted by the Bureau of Energy Efficiency. This exam certifies energy managers and energy auditors in India.

This course will take you through Paper - 1 of the 4 books that needs to be referred during this examination.

**Dates of examination - 25th & 26th  
September 2021**

## 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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### Registration fee:

Paper 1 – Rs. 500 + GST

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.**





## TRAINING On

### Water Audit - The Need of hour

**29 - 30 October 2021**  
**6.30 pm to 8.30 pm**

### Organised by



SOCIETY OF

ENERGY ENGINEERS AND MANAGERS

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

E Certificate will be issued on successful  
completion of training

## Training on Water Audit

### Key takeaways from the Webinar

- (1) Water Audit Need
- (2) Systematic Water Audit Methodology in Industry, Commercial Establishments, Residential Complex and Municipal, Metro Water Supply Establishments
- (3) Water Conservation Techniques including Recycling, Reuse etc.,
- (4) Role of Water Conservation in Green Buildings.

### Course Fee:

General - Rs.800/-

SEEM Members & Faculty - Rs.600/-

Students - Rs.300/-

### Registration Link:

<https://forms.gle/U36fY5EQdz2JhCht6>

### Payment Link:

<https://rzp.io/l/seem-payment>

### Trainer



**Dr. R.Pannirselvam**

**Dr. R.Pannirselvam**, born on 10<sup>th</sup> June 1941, is a retired Deputy Chief Engineer from Tamil Nadu Water Supply and Drainage Board and currently Guest faculty at Centre for Environmental Studies, Anna University. He is also Freelance Environmental Engineering Consultant with specialization in Wastewater Treatment.

He has a total of 58 years of experiences in planning, designing, implementing, operating and maintaining water supply and sewerage projects, preparation of Environmental Impact Assessment and teaching Environmental Engineering Subjects at Anna University.

He has B.E degree in Civil Engineering (Madras University), M.E. degree in Public Health Engineering (Madras University) and Ph.D. degree in Civil Engineering (Anna University).

He is a Life Fellow of Indian Water Works Association and Life Fellow of Institute of Public Health Engineers.

He has authored and published eight books in different topics of Environmental Engineering.

He is regularly delivering lectures in different topics in different Refresher Courses of field Engineers in number of Training Centres.

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## REPORTS

## Training on Electrical Safety on 27-28<sup>th</sup> August, 2021

SEEM Karnataka Chapter is organised a training on 'Electrical Safety' on 27-28<sup>th</sup> August, 2021 at 07:30pm to 08:30pm. Mr. Jayaprakash Narayan, Chairman, SEEM Karnataka Chapter was the trainer for the Program. In first day he explained about the topics Electrical Safety Overview,, Electricity Act and CEA Regulations, and Safety Audit and methodology. Topics explained in the 2<sup>nd</sup> day were Grounding, Earthling and Lightning, Electrical Fire,- Causes and Control and Electrical Incidents – First Aid, More than 250 participants were attended the training. All are provided the participation E- certificates also.

## Webinar on “Webinar on Solar Energy – Technologies and Applications in Industry”

SEEM Tamil Nadu Chapter conducted a webinar on Solar Energy – Technologies and Applications in Industry on 18th September 2021 at 06:30pm to 08:10PM. Dr. Vimal Kumar Eswaralal , CEO & Director, Mangla Smart Energy Solutions Pvt. Ltd. Was the speaker. He explained about the Potential in India for harvesting Solar Energy, Principles and applicationsof Solar Thermal and Bio-energy, and Techno Commercial aspects were covered through case studies. Around 60 Participants were attended the program.

## Webinar on Building resilience for Climate, People and Economies

Tropical Greenovation Cluster (TGC) and World Green Building Council jointly organized a Webinar on Building resilience for Climate, People and Economies on 24<sup>th</sup> September, 2021 to hold the campaign to accelerate sustainable buildings for everyone, everywhere. Mr. Krishnakumar, Former National General Secretary, SEEM and Mr. A M Narayanan, Senior Energy Expert, IES Alumnus were the speakers. The speakers explained about the major features of green buildings those contribute to mitigation and adaptation, Climate resilience concept and the salient design features for climate resilient buildings in the wake of climate impacts on buildings, the climate resilient pathways are depicted amidst the bio-physical and social stressors and antifragility management and sustainable business strategies to foster regenerative economies.

## Webinar on “Introduction to ISO 50001 Energy Management System.”

Society of Energy Engineers and Managers, Karnataka Chapter organised a webinar on “Introduction to ISO 50001 Energy Management System” on 11<sup>th</sup> September , 2021 at 07:30 pm to 08:30pm . Mr. G.Krishnakumar, Former National General Secretary and Chief operating officer, SEEM was the speaker of the webinar. The webinar had been taken through the ISO 50001:2018 Energy Management System requirement, benefits and touched upon implementation of the system.

## Webinar on "Sustainability Initiatives For Housing Societies".

SEEM Maharashtra Chapter organised a Webinar on "Sustainability Initiatives For Housing Societies". Mr. Puneet Hegde (Certified Energy Auditor, Consultant & Trainer), Secretary SEEM Maharashtra Chapter was the Speaker of the program. The key takeaways of the program were Energy Conservation, Renewable Energy, Electrical Vehicles, Water Conservation, Water Recycling/Rain water harvesting, Wastage segregation, Community composting, waste recycling initiatives for Housing Societies.

## SEEM Member won the Award for Young & Emerging Leader in Energy Efficiency



SEEM – Andhra Pradesh chapter Member **Mr. V Vikram Sena Reddy** won the CII National Level Award for Young and Emerging Leader in Energy Efficiency. He is the Manager – Engineering and Projects of Granules Omnichem Pvt . Ltd., Andhra Pradesh.

We **congratulate Mr. Reddy** for this excellent achievement and wish all the success in his future.

## Webinar on Ensuring Fire-Safe Buildings for New India

International Copper Association India organised Webinar on “Ensuring Fire-Safe Buildings for New India” on 24<sup>th</sup> September 2021. Mr. Hemant Sali (Ex-Electrical Inspector& SE, PWD, Maharashtra), Mr. Amol Kalsekar (Chief Manager – ICA India) and Mr. Debdas Goswami, (Chief Advisor, ICA India) were the expert speakers.



## NEWS

# Vedanta Aluminium shines at the Perform, Achieve & Trade (PAT) Cycle-II scheme by Power Ministry

New Delhi: Vedanta Aluminium Business, India's largest producer of the aluminium and value-added products, has bagged top spots at Perform, Achieve and Trade (PAT) Cycle-II among the Indian aluminium industry.

Perform Achieve and Trade (PAT) scheme is a regulatory instrument deployed by the Ministry of Power, to reduce specific energy consumption in energy intensive industries with an associated market-based mechanism to enhance cost effectiveness through certification of excess energy savings, which can be traded.

Among aluminium smelters in India, Vedanta's subsidiary Bharat Aluminium Company (BALCO) secured the coveted top spot with the highest Energy Saving Certificates, followed by Vedanta Jharsuguda's Smelter I. Vedanta's alumina Refinery at Lanjigarh, ranked highest among peer alumina producers. An alumina refinery is a plant where bauxite is refined into aluminium oxide or alumina, and an aluminium smelter is a plant where aluminium is produced from alumina. These achievements bear testimony to Vedanta Aluminium's robust endeavours towards energy conservation for business and environment sustainability.

Speaking about Vedanta's energy stewardship, Rahul Sharma, CEO Vedanta Aluminium Business, said: "Being India's largest aluminium producer, our aim at Vedanta Aluminium is to be the best in all facets of business, including Environment, Social and Governance (ESG) sustainability. Maximising energy conservation and minimising carbon footprint are two key pillars of our sustainable business development agenda. A three-pronged strategy of ensuring judicious resource usage, energy-efficient operations, and renewable energy sourcing, helps us further our energy sustainability and climate action goals. Towards this, we have adopted global best-practices in energy and resource management, and deployed cutting-edge solutions to reduce our carbon footprint."

Energy management is at the heart of Vedanta Aluminium's climate action roadmap, and finds realisation through dedicated efforts towards attaining highest operational efficiency of assets and processes. These include impactful initiatives for optimisation of specific energy consumption in production processes and a long-term focus on migrating to low carbon energy mix.

Prafulla Behera, Site In-Charge of IGSEC Heavy Engineering Ltd, which is the operations and maintenance partner for the power plant at Lanjigarh, adds: "With our engineering and domain expertise, we have been working with Vedanta on their energy efficiency and energy sustainability targets. We are proud to be playing a crucial role in Vedanta's journey towards being a forerunner in the field of energy conservation and ensuring maximum energy optimization at its world-class refinery operations."

Vedanta's Alumina Refinery, Aluminium Smelters and Power Plants have been forerunners in the realm of energy management, among the Indian manufacturing sectors. Few notable initiatives and highlights:



- Vedanta Aluminium was India's largest green power purchaser in Q1FY22, having procured 354 million units of solar and non-solar renewable energy for its aluminium smelter at Jharsuguda.

- Vedanta Aluminium Business has significantly reduced its GHG emission intensity by 21 per cent with 2012 as baseline, and aims to reduce it by 24 per cent in 2025 over the same baseline.

- Climate action initiatives across all Business Units have resulted in energy conservation of 1.4 million GJ and GHG savings of 0.32 million tonnes of carbon dioxide equivalent (tCO<sub>2</sub>e) in FY 20-21.

- Vedanta's aluminium smelter at Jharsuguda is India's first, and the world's third smelter to deploy Digital Smelter Solution, which uses digital twin technology, predictive and prescriptive analytics to enhance energy efficiency.

- The Jharsuguda smelter is also amongst the first few aluminium smelters in Asia to receive ISO 50001 certificate for Energy Management System.

- BALCO Vedanta's subsidiary at Chhattisgarh, achieved lowest specific power consumption in its Potline-I in 2020, which is among the best in India and the Gulf countries. A potline is a long building, or collection of buildings, located in a smelter and contains a series of 'pots', or large electrolytic cells, in which aluminium smelting is carried out.

- Vedanta Lanjigarh's specific energy consumption has reduced by over 23 per cent over the last five years, making it one of the most energy efficient refineries in the country.

- Vedanta's 'Carbon Forum' is actively working on guiding implementation of the company's carbon mitigation approach.

Vedanta Aluminium Business, a division of Vedanta Limited, is India's largest manufacturer of aluminium, producing half of India's aluminium i.e. 1.96 million tonnes in FY21. It is a leader in value-added aluminium products that find critical applications in core industries. With its world-class Aluminium Smelters, Alumina Refinery and Power Plants in India, the company fulfils its mission of spurring emerging applications of aluminium as the 'Metal of the Future' for a greener tomorrow.

<https://energy.economictimes.indiatimes.com/news/power/vedanta-aluminium-shines-at-the-perform-achieve-trade-pat-cycle-ii-scheme-by-power-ministry/86573475>





## NEWS

## UltraTech Cement commits to 100% renewable energy usage by 2050

MUMBAI: Aditya Birla Group company, UltraTech Cement has announced its commitment to Climate Group's RE100 initiative at Climate Week NYC 2021.

As part of this commitment, UltraTech targets to meet 100% of its electricity requirement through renewables sources by 2050.

RE100, led by Climate Group in partnership with CDP, brings together the world's most influential businesses committed to 100 per cent renewable electricity.

UltraTech has set a 100 per cent renewable electricity target for its entire global operations by 2050.

In the last two years, UltraTech has scaled up its contracted renewable energy capacity by 2.5 times. The company has already set a target to scale up its green energy mix to 34% of its total power requirement by 2024, from the current levels of 13%.

"We have made tremendous progress in scaling up the use of green energy in our operations. The commitment to move to 100% renewable energy to meet our electrical energy requirements by 2050 is both a reflection of our confidence on the progress we have made, as well as our commitment to overcome the challenges ahead.

With us now joining the RE100 group, UltraTech will become part of a high-profile global campaign that advocates for a strong business case in transitioning to renewable energy sources in building a decarbonized economy," said Kailash Jhanwar, MD, UltraTech Cement.



Source: <https://energy.economictimes.indiatimes.com/news/renewable/ultratech-cement-commits-to-100-renewable-energy-usage-by-2050/86476335>

## PM Modi to interact with global CEOs to highlight opportunities in India

Washington: Prime Minister Narendra Modi has said he would highlight economic opportunities in India during his meetings with CEOs here.

On Thursday, the prime minister is scheduled to hold one-o-one meetings with top five American CEOs.

Two of them are Indian Americans -- Shantanu Narayen from Adobe and Vivek Lall from General Atomics. The three others being Cristiano E Amon from Qualcomm, Mark Widmar from First Solar, and Stephen A Schwarzman from Blackstone..

"Landed in Washington DC. Over the next two days, will be meeting President Joe Biden, Vice President Kamala Harris, Prime Ministers Scott Morrison from Australia and Yoshihide Suga from Japan," he tweeted.

"Will attend the Quad meeting and would also interact with leading CEOs to highlight economic opportunities in India," he said.

The prime minister's meeting with American CEOs from five different key areas is reflective of the priorities of his government.

While Narayen reflects the IT and digital priority that the Indian government is pushing for, Modi's meeting with Lall is significant as General Atomics is not only the pioneer in military drone technologies but also the world's top manufacturer of state-of-the-art military drones, which the US shares only with its key allies and partners.

India is in the process of procuring a significant number of drones for the three branches of its armed forces. It has also leased a few drones from General Atomics.

Jakarta-born Vivek Lall, now based out of California, for over a decade has been instrumental in major bilateral defence deals worth around USD18 billion, as India and the US take steps to forge a new relationship in which defence trade is a key pillar.

The meeting with chip giant Cristiano Amon assumes significance, given India's push for the 5G technology to be safe and secure.

The San Diego-based company creates semiconductors, software, and services related to wireless technology.

A world leader in 3G, 4G, and next-generation wireless technology innovations for more than 30 years, Qualcomm is now pioneering its way to 5G with a new era of intelligent products that are revolutionising industries, including automotive, computing, and IoT.

India is looking for a major investment from Qualcomm.

As India is taking gigantic steps in the use of [solar power](#) to meet its energy needs, the meeting with Mark Widmar is important as First Solar is a leading global provider of comprehensive photovoltaic ("PV") solar solutions, which use its advanced module and system technology

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## NEWS



Early this summer, the Arizona-based company announced to add 3.3 GW of capacity in a new facility in India at an estimated cost of USD684 million.

Stephen A. Schwarzman is Chairman, CEO and Co-Founder of Blackstone, one of the world's leading investment firms investing capital on behalf of pension funds, large institutions and individuals.

In March this year, Blackstone announced that funds managed by Blackstone Real Estate have acquired Embassy Industrial Parks from Warburg Pincus and Embassy Group, in one of India's largest logistics transactions. PTI LKJ MGA.

Source::  
<https://energy.economictimes.indiatimes.com/news/renewable/pm-modi-to-interact-with-global-ceos-to-highlight-opportunities-in-india/86445014>

## NY Climate Week: Gujarat, Bihar, Ladakh head to become carbon neutral

New Delhi: Progressive climate actions are being undertaken by many Indian states as they strategically shift towards increased use of renewable energy.

This came to light on Friday at a discussion organised by The Climate Group on the sidelines of the annual New York Climate Week, and at a time when the UN calls for no further build of coal across the world and countries, companies, states and regions world over are committing to bringing down emissions to net zero by mid century.

The plans of states are well placed to achieve long-term energy transition and net zero targets. For instance, Gujarat is on the path to significantly reducing emissions as they choose to rely on renewable energy alone to meet all future power needs.

New analysis from GERMI shows that the share of coal power generation in the state will come down to 16 per cent by 2030, from the current 63 per cent as it aligns with the 450GW revised national renewable energy target.

The state is also setting up the world's largest grid-scale battery storage in the Kutch region and is one of India's largest markets for electric two-wheelers.

The analysis shows that not only will Gujarat not need to build any further thermal coal assets, but it will also have to consider retirement of plants which are either old or polluting.

Developing a retirement package for these coal plants will hold the key. This will make economic sense given that the cost of renewable energy is less than new coal power.

Electricity sector in India contributes to 40 per cent of emissions.

[Ladakh](#) is working towards an enormous 10 GW of renewable energy capacity with solar and wind power, and it is setting up a 50MWh battery storage capacity --India's largest so far.

Additionally, [NITI Aayog](#) has appointed TERI to facilitate an action plan and embed carbon neutrality in every department of the state as part of its Vision 2050 development plan.

Ladakh's Power Development Secretary, Ravinder Kumar, said: "We have begun the exercise to convert Ladakh to carbon neutral territory in the next few years with every department working on five year exit plans. We have begun installing solar and geothermal projects to replace the polluting DG sets. Electric and hydrogen vehicles are being given a push to reduce emissions from transport."

Source::  
<https://energy.economictimes.indiatimes.com/news/renewable/ny-climate-week-gujarat-bihar-ladakh-head-to-become-carbon-neutral/86499996>

## ONGC puts 2nd well in KG block on production

New Delhi: Oil and Natural Gas Corp (ONGC), India's biggest oil and gas producer, has put a second well in its promising KG basin block into production, its chairman Subhash Kumar said Friday. ONGC had achieved first gas from the USD 5 billion KG-DWN-98/2 or KG-D5 project in the Krishna Godavari basin in the Bay of Bengal in June last year.

Augmenting production from the project thereafter got hit by supply disruption world over caused by the Covid pandemic.

"We have started gas production from second deep-water U1B well in KG-DWN-98/2 Block's Cluster-II on August 31, 2021," Kumar told shareholders at the company's annual general meeting (AGM).

Considered to be the largest subsea project in India, block 98/2 is expected to have a total peak gas production rate of around 16 million metric standard cubic meters per day, with peak oil production rate estimated to be 80,000 barrels per day.

The block sits next to the KG-D6 block of Reliance Industries Ltd and its partner BP Plc of UK.

A total of 34 wells are planned to be drilled as part of the KG-DWN-98/2 project including 15 oil-producing wells and eight gas-producing wells.

Kumar did not say when the project will hit peak production.

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## NEWS

The block holds the promise of reversing ONGC's falling oil and gas production. ONGC has seen a decline in output as it operates aging and mature fields.

Kumar said backed by an intensive exploration programme, accretion of in-place reserves has been 92.37 million tonnes of oil equivalent during the 2020-21 fiscal.



"We established commercial oil in Bengal basin, which was dedicated to the nation as the 8th producing basin of India," he said. "10 discoveries were made and we monetized 12 discoveries."

ONGC drilled 480 wells were drilled during the year, 100 of these were exploratory wells while the rest 380 were development and side-tracked wells.

The firm produced 22.5 million tonnes of crude oil in 2020-21 fiscal and 22.816 billion cubic meters of gas.

"During the financial year 2020-21, three major projects (1 development & 2 infrastructure) with an investment of around Rs 3,333 crore were completed," he said. "Looking forward, over the next few years, the domestic production is expected to be driven by strong output from our Krishna Godavari deep-water field in the eastern offshore as well as Heera in the shallow waters of Western offshore."

During 2020-21, the redevelopment of the Nandasan field in Mehsana, Gujarat was approved at a cost of Rs 445 crore. Also, the redevelopment project of the Linch field in the same asset has been approved.

"With this, 16 major projects are presently under implementation with a total project cost of around Rs 61,133 crore and with envisaged oil and gas gain in excess of 100 million tonnes of oil and oil equivalent gas," he said.

ONGC Energy Centre has taken up the first geothermal energy pilot project in Ladakh wherein it has been planned to drill Geo-Thermal wells and establish a 1-megawatt power plant at Puga, Ladakh.

Source: <https://energy.economictimes.indiatimes.com/news/oil-and-gas/ongc-puts-2nd-well-in-kg-block-on-production/86478430>

## Hero Electric joins hands with Massive Mobility to set up 10,000 EV charging stations

New Delhi, Hero Electric on Friday said it has joined hands with EV startup Massive Mobility to set up 10,000 charging stations across the country in next one year. The EV charging network, when up and running, would be open to all electric vehicles and will lead to for standardisation between manufacturers.

Through this collaboration, Hero Electric looks to ramp up the charging infrastructure across the country to help drive and encourage adoption of electric mobility.

The company aims to set up 10,000 stations with Massive Mobility and extra 10,000 on its own by next year end.

"Announcements by the government of India over the last few months have helped propel the EV industry onto the next level. We continue to expand our reach, setting up charging points and reskilling mechanics to create an ecosystem," Hero Electric CEO Sohinder Gill said in a statement.

The company has been investing in plotting low-cost charging stations over the last few years to foster growth of the charging infrastructure, he added.

"Till date, we have setup close to 1,650 charging stations and aim to setup 20K by the end of 2022," he noted.

The association with Massive Mobility will broaden the company's efforts to reach its objective as the partnership would benefit the overall industry, Gill said.

Massive Mobility is a startup working to design a smart connected network of charging solutions catering to three-wheeler and two-wheeler EVs.

Through its cloud-based solutions it enables parking and charging point owners to offer charging services to users

It is dedicated to creating a fully-integrated charging experience where hardware and software are aligned with original equipment manufacturers to provide smooth and resistance-free experience to EV owners. PTI MSS ANS ANS

Source: <https://energy.economictimes.indiatimes.com/news/power/hero-electric-joins-hands-with-massive-mobility-to-set-up-10000-ev-charging-stations/86499795>





## SEEM Individual Memberships Fee & Benefits

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

### Who can join SEEM?

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

### Benefits to Members

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

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

### Discounts available to SEEM Members:

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

### Your membership kit includes:

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

### Membership Categories & Eligibility

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



the **best medium**  
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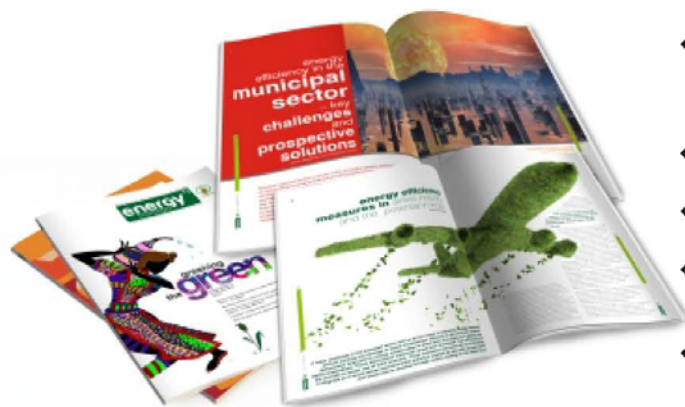
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### DATA

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





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