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APRIL 2021

society of
energy engineers
and managers



VIEW POINT

The change in leadership in United States of America earlier this year may bring back climate action leadership back to Washington. This is welcome in view of the recent UNFCCC report which synthesised the Nationally Determined Contributions (NDC) reports which pointed towards insufficiency of the pledges already made by the various Nations, in containing the temperature change to 1.5° C. The report calls for renewed commitments for deeper cuts in emission to ward off the climate disaster staring at the world. There was a lurking fear that amidst the health emergency which the world is grappling with, the climate action may get demoted in priority.

Following up on the President Biden's campaign promises, he has scheduled leaders Summit on climate change in April itself. It is genuinely hoped that the economic benefits of going green will be in the forefront of discussions. The world economy which is already precariously perched on account of the pandemic can get a whiff of fresh air if the world leaders are prepared to see the economic benefits of climate action. Probably it makes sense to take this as an opportunity to resurrect the economies in a clean way which can even allay future onslaughts of pandemics which are also believed to be a fallout of loss of bio diversity which in turn is attributed to climate change.

It rekindles the hope as many countries have started legislating to go Net zero with different deadlines. USA is also expected to follow suit making a declaration at the conference. While the developed nations are able to visualize this transition far more easier, the task for developing and less developed nations is daunting. An all round transition will call for investments in green technologies, innovation research in such technologies and financial support for poorer countries.

For us in India to go for a commitment to Net zero is Hobson's choice, being among nations most vulnerable to climate dangers. At the same time, our present state of economy can get a fillip if the right policies promoting green development are given priority. We need development to cater to the millions of our citizens and earn them decent living conditions. If imaginative thinking goes into the kind of development which is envisaged to elevate the economic and social plight of our citizens, integrating the protection of environment too as a major factor, this can be achieved. In a country like ours which in fact is a conglomeration of different geographies and demographics, serious efforts in consultative process before making mandatory provisions for a net zero commitment are essential to make it result oriented. We the energy conservation professionals and SEEM have a great role in this impending transition and we should ready ourselves to play a proactive role in the same..

G Krishnakumar

Immediate Past National General Secretary &
Chief Operating Officer



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REPORT

H₂GREEN HYDROGEN:
THE NEXT CLEAN ENERGY
FOR INDIA

For decades, hydrogen has been touted as the fuel of the future, with promises of massive benefits in about five years. Green hydrogen differs from grey hydrogen, which is made from methane and releases greenhouse gases into the atmosphere, and blue hydrogen, which absorbs those pollutants and stores them underground to avoid climate change. According to comments made by those in positions of authority, green hydrogen may play a significant role in India's future. The Prime Minister of the state proposes the launch of a 'Comprehensive National Hydrogen Mission' in 2021-2022 for the generation of hydrogen for green power sources. According to a recent study from The Energy and

Resources Institute, nearly 80% of India's hydrogen will be "green" by 2050, meaning it will be generated using renewable electricity and electrolysis. By 2030, the cost of hydrogen produced from renewables will have dropped by more than half, enabling it to compete with hydrogen that is produced from fossil fuels. Taking a step back and looking at the larger picture, India's government is striving for 450 gigawatts of renewable energy resources by 2030. In February, India's Ministry of Petroleum and Natural Gas announced that Indian Oil and Greenstat Hydrogen India, a subsidiary of Norwegian energy company Greenstat, had signed a letter of intent to create a Center of Excellence on Hydrogen. This Center will

serve as a platform for the promotion of R&D projects in both, Green and Blue Hydrogen between Norwegian and Indian R&D institutions and/or universities. The hydrogen economy will be a key component of the energy infrastructure of the future. By the end of the decade, hydrogen would have entirely replaced natural gas. Since electricity is the most expensive component in production, the cost of renewable-powered hydrogen production through electrolysis will drop exponentially in the coming years. It is past time for India to rise to the occasion and seize today's opportunities through the Hydrogen project in order to ensure a safe and prosperous future.

Source:
<https://solarquarter.com/2021/03/31/green-hydrogen-the-next-clean-energy-for-india/>

COAL'S SHARE IN INDIA'S
POWER MIX HITS HIGHEST IN
OVER TWO YEARS

Coal's share in India's electricity generation rose to the highest level in at least nine quarters during the first three months of 2021, government data showed, reversing a trend of renewable energy gaining at coal's expense. The share of renewable energy rose in 2020 when overall power demand was reduced by lockdowns to limit the pandemic.

This year seasonal factors have limited output of renewables, including hydro

electricity, which are weather dependent, helping coal's share to rebound. The share of coal and lignite rose to 78.9% during the quarter ending March 31, compared with 75.9% in the same period last year, a Reuters analysis of daily load despatch data from the federal grid regulator POSOCO showed.

Coal's contribution to India's annual electricity generation fell for the second straight year in 2020, the data shows, marking a departure from

decades of growth in coal-fired power. A consistent rise in the share of renewables culminated in coal's share in electricity generation falling below 60% for the first time in decades on Aug. 12.

Just over five months later, coal's contribution to daily power output rose to more than 80% for the first time in at least 750 days on Jan. 20, a feat that was repeated nine more times to March 31, the data showed.

Source:
<https://energy.economictimes.indiatimes.com/news/coal/coal-share-in-indias-power-mix-hits-highest-in-over-two-years/81971198>

CHINA'S PLANS FOR HIMALAYAN SUPERHYDRO DAM STOKES FEARS IN INDIA

China is planning a mega dam in Tibet able to produce triple the electricity generated by the Three Gorges -- the world's largest power station -- stoking fears among environmentalists and in neighbouring India. The structure will span the Brahmaputra River before the waterway leaves the Himalayas and flows into India, straddling the world's longest and deepest canyon at an altitude of more than 1,500 metres (4,900 feet).

The project in Tibet's Medog County is expected to dwarf the record-breaking Three Gorges Dam on the Yangtze River in central China, and is billed as able to produce 300 billion kilowatts of electricity each year. It is mentioned in China's strategic 14th Five-Year Plan, unveiled in March at an annual rubber-stamp congress of the country's top lawmakers. But the plan was short on details, a timeframe or budget.

The river, known as the Yarlung Tsangpo in Tibetan, is also home to two other projects far upstream, while six others are in the pipeline or under construction. The "super-dam" however is in a league of its own. Last October, the Tibet local government signed a "strategic cooperation agreement" with PowerChina, a public construction company specialising in hydroelectric projects.

Source:
<https://energy.economictimes.indiatimes.com/news/power/chinas-plans-for-himalayan-super-hydro-dam-stoke-fears-in-india/82012956>



INDIA PROPOSES ADOPTION OF ROLLING COAL AUCTIONS

India has proposed to adopt a 'rolling auction' mechanism for conducting coal auctions under which a pool of coal blocks will always remain available for auctions, coal minister Pralhad Joshi said.

"With rolling auctions, we will upload a comprehensive list of mines along with key technical data and bidders can submit their preferences for the mines to be included in the next tranche of auction. This would be a continuous process and would result in expediting the auction setup. Moreover, it will also help bidders in planning better and would further enhance transparency in the system," Joshi said.

Coal is the first mineral resource where rolling auction mechanism is being implemented. The country launched on Thursday second tranche of auction for commercial coal mining offering 67 mines for sale of coal. "This is the highest

number of mines on offer in a particular tranche of auction after commencement of the auction regime since 2014," an official statement said.

The coal mines on offer are a mix of mines with small and large reserves, coking and non-coking mines and fully and partially explored mines spread across six states Chhattisgarh, Jharkhand, Odisha, Madhya Pradesh, Maharashtra and Andhra Pradesh.

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Source:

<https://energy.economictimes.indiatimes.com/news/coal/india-proposes-adoption-of-rolling-coal-auctions/81689838>

CSC, TATA POWER TO SET UP 10,000 SOLAR MICRO GRIDS IN RURAL AREAS

The government's e-governance services arm CSC on Thursday announced a collaboration with Tata Power to set up solar-powered micro grids and water pumps in rural areas across the country. To begin with, Tata Power has proposed to set up 10,000 micro grids to support rural consumers through Common Service Centres (CSCs).

CSC e-Governance Services India Managing Director Dinesh Tyagi said the collaboration

will amplify the government's ongoing campaign to provide clean and sustainable energy to households and businesses in rural areas. "This partnership will increase energy access and provide an economic opportunity to the company by providing off-grid or microgrid power. This will help rural customers move away from burning relatively expensive fuels such as kerosene and can provide basic energy services and meet economic needs," Tyagi

said in a statement. Under the partnership, over 3.75 lakh CSCs will be involved in supplying solar water pumps to farmers and help in setting up micro grids in residential and commercial establishments in rural areas. The partnership is initially expected to create employment to a minimum two persons in each panchayat where microgrid are proposed to be installed, thereby leading to generation of 20,000 jobs for rural youth

Source:

<https://energy.economictimes.indiatimes.com/news/renewable/csc-tata-power-to-set-up-10000-solar-micro-grids-in-rural-areas/82093875>

SELF RELIANCE IN ENERGY - WAY FORWARD WITH BIO ENERGY WITH ADOPTION AND PROMOTION OF APPROPRIATE TECHNOLOGIES

Society of Energy Engineers and Managers, Tamil Nadu Chapter conducted a webinar on 27th March 2021 on the topic **Self Reliance in Energy - Way forward with Bio Energy with adoption and promotion of Appropriate Technologies**.

Mr. Mahadevan, Past President of SEEM TamilNadu Chapter was the speaker of this webinar. He explained the Potential in India regarding Bio Energy and various processes and Technologies used in Bio Energy. And he shared his

experience on Bio Energy. Finally he illustrated various Applications of Bio Energy. More than 25 participants has attended this program.

SEEM KARNATAKA CHAPTER MEETING HELD ON 10TH APRIL 2021



Karnataka chapter meeting was held on 10-04-2020 at Kodavasamaja recreation Club, Vasanth Nagar Bangalore. This was the first Karnataka chapter meeting conducted in physical mode. Mr. Jayprakash Narayan, Mr.

Benet George, Mr. Antony Gerald P V, Mr. Suresh Y, Mr. Abraham Varughese were participated in meeting. They discussed on various activities of the Chapter. Also discussed about current planning and decided to look opportunities to

start student chapters from the Chapter. Identify programs / product presentations to generate revenue for chapter activities. Also discussed for taking Initiative actions to start a student chapter in Mysore region and spread activities.

WEBINAR ON "RETROFIT SOLUTIONS FOR INDUCTION MOTORS"

Society of Energy Engineers and Managers, Karnataka Chapter conducted a webinar on "Retrofit solutions for induction motors" on 13-03-2021 by Mr. J Srinivasan, ACE Enablers LLP Chennai. He is a well-known expert in expert in motor and drive systems and have many publications in motors systems.

He has shared the insights on motors installed base, market scenario, motor standards, existing scenario, and approach towards motor replacement program. Webinar also covered National Motor Replacement Program (NMRP) and many case studies on motor replacement.



TECHNICAL TALK ON ENERGY CONSERVATION IN COOLING TOWERS & ASSOCIATED PUMPS

Society of Energy Engineers and Managers, Maharashtra Chapter conducted a Technical Talk on Energy Conservation in Cooling Towers & Associated pumps by Col. Surendra Kumar.

Initially Mr.Sunil Dange,
Treasurer & VC Academics,
SEEM Maharashtra chapter
gave brief introduction of Col.

Surendra Kumar & his firm Energy Management Services Pvt.Ltd. Col.Surendra Kumar gave nice Knowledge sharing presentation on Energy Conservation in Cooling Towers & Associated pumps. The Webinar attended by Members of Seem Maharashtra as well as Energy professionals. Energy professionals raised queries

regarding the Energy Conservation issues faced & cleared their doubts.

Mr. Puneet Hegde , Secretary SEEM Maharashtra chapter organized Zoom meeting. At the End Chairman Mr. Mohan Khedkar gave the Vote of Thanks speech.

SEEM TAMIL NADU CHAPTER MEETING HELD ON 9TH APRIL 2021

SEEM Tamil Nadu chapter meeting was held on 9th April 2021. Mr. P.Premkumar, Mr. M.Srinivasan, Mr. Giridhar, Mr. Muthu Mariappan, Dr Sudhakar

were participated in meeting. They discussed on various activities of the SEEM Tamil Nadu Chapter. Also discussed about the upcoming webinars.

regarding the feedback received from members as good and very much informative and wide scope in bio energy was delivered by speaker.

DEMISE OF DR. RAJASEKHAR MANDI

Dr. Rajashekar Mandi (Former Chairman –SEEM Karnataka chapter) passed away. He was the Director of School of EEE,

REVA University. Heartfelt
condolence and prayers on the
sad demise of Dr.Rajasekhar
Mandi



WEBINAR ON "POWER QUALITY TO ACHIEVE ENERGY EXCELLENCE"

Society of Energy Engineers and Managers, Tamil Nadu Chapter conducted a webinar on "Power Quality To achieve Energy Excellence" on 24 April 2021 at 6.30 pm – 7.30 pm

Key takeaways

- ◆ Power Quality and Energy Efficiency
- ◆ Mitigation Of PowerQuality
- ◆ Case Studies on Energy Efficiency Improvement due to PQ mitigation

SOCIETY OF
ENERGY ENGINEERS AND MANAGERS
Tamilnadu Chapter



Society of Energy Engineers and Managers, Tamilnadu Chapter welcomes you to join a webinar on "Achieving Energy Efficiency through Power Quality"

 24/04/2021

 6.30 pm - 7.35 pm IST

Topics:-

Power Quality to Achieve Energy Excellence

Key takeaways:-

Power Quality and Energy Efficiency

Mitigation Of PowerQuality

Case Studies on Energy Efficiency Improvement due to PQ mitigation

Presenter



Mr. Manas Kundu, is currently Director (Energy Solutions) with ICAI, looking after Market Development Programs for transformer, sustainable development, power quality, and electrical safety. He is country manager for Asia Power Quality Initiative (APQI) and responsible for growth of Copper Market in Utility and Building Domain of West Asia / SAARC Region. Manas comes with 30 plus years of application engineering, techno-commercial and business development experience in energy services consultancy, the utility sector and in electricity regulation.

Manas was earlier Director (Technical) with the Maharashtra Electricity Regulatory Commission, Mumbai for 7 years. He was responsible for implementation of the Electricity Act 2003 in the State.

He is member of national sectional committee MED 39 of Bureau of Indian Standards on Energy Management Systems (ISO 50001), ET 16 for transformers and ET 45/ ET 1 on PQ. He is part of ET-20 (Electrical Installation Code) Committee and CEA Electrical Safety Regulation Review Committee. He represented ICAI in the technical committee of BEE for ECBC, RAC and Domestic Inverter S&L Program and CBIP. He is member of national Forum of Regulators (FOR) subcommittee on Power Quality.

Manas has Masters in Management from Jamnalal Bajaj Institute (Mumbai), Master of Technology (Electrical) from IIT Kharagpur, and a post graduate in Patent Law under NALSAR, Hyderabad. He is certified energy auditor under Bureau of Energy Efficiency (BEE's) national program.

Joining Link: <https://us02web.zoom.us/j/83653813406?pwd=WlBpWVVRZ2c2VVhhZmVPT08zQ2RVdz09>

Meeting ID: 836 5381 3406
Passcode: SEEMTN

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Mr. R. Gopalakrishnan is the fellow of Society of Energy Engineers and Managers (SEEM) and the mentor of Andra- Telangana Chapter and the very Senior member of institution of Engineers.

Challenges Faced By Auditors in Different Industries

By

R. Gopala Krishna, FIE

Accredited Energy Auditor – Advisor

Vice Chairman, ECM



Zenith Energy Services Private Limited
Hyderabad

NEWS

SEEM NATIONAL ENERGY MANAGEMENT AWARDS 2020



Inspiring Energy Efficiency

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

SEEM National Executive Council invites applications for the prestigious SNEMA 2020

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

Who Can Apply?

Applications are sought for the following categories

Individuals

- Certified Energy Manager
- Certified Energy Auditor

Award Category Best Performance Awards

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

ENCON Promoters

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

Award Category Best Performance Awards

Who Can Apply?

Production, Manufacturing & Service Sector

INDUSTRIES

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

Award Category Silver / Gold / Platinum

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

Who Can Apply?

Production, Manufacturing & Service Sector

FACILITIES

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

Award Category Silver / Gold / Platinum

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

Corporate Houses

- All Corporate or business houses in manufacturing / Services sectors

Award Category Best Performance Awards

SEEM NATIONAL ENERGY MANAGEMENT AWARDS 2020

Registration Closed



NEWS

SEEM NATIONAL ENERGY MANAGEMENT AWARDS 2020

How to Apply

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

🔗 <https://forms.gle/SNEMA2020>

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

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

Fee

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

* 50% special discount in individual category for SEEM members

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



Ms. Saranya Mohan

Coordinator - SNEMA 2020

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✉ awards@seemindia.org

Society of Energy Engineers and Managers
National Award Secretariat - SNEMA 2020
Dr. Azad, General Secretary
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Delhi - NCR.

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☎ +91 9446 067 607

✉ awards@seemindia.org

🌐 www.seemindia.org

How to Apply

Mode of Payment

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

Acc. Name : Society of Energy Engineers and Managers

Bank Name : State Bank of India

Branch Name : Kannammoola

A/c No. : 37048528759

IFSC Code. : SBIN0008293

Branch Code : 8293

Processing of Applications

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

All queries can mailed to :

✉ awards@seemindia.org

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



SNEMA Highlights
<https://youtu.be/rcxKpwgjiyw>



NEWS

SPONSORSHIP DOSSIER

SEEM NATIONAL ENERGY MANAGEMENT AWARDS 2020

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

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

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

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

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

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

SNEMA Highlights

<https://youtu.be/rcxKpwgjiyw>

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

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

For more details and register for sponsorship please click the link

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





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.