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seem NEWS

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VIEW POINT

The global manufacturing sector has witnessed various industrial revolutions. Currently in the fourth industrial revolution phase high technological production strategies blended with intelligent decision support system, takes the sector to new heights of productivity.

The principle of Industry 4.0, unlike the traditionally hierarchical and centralized manufacturing system, exhibits a decentralized architecture in which autonomous industrial things connect with one another. These autonomous things interact among themselves with a connected Decision Support System (DSS) to self-diagnose and self-respond in the overall manufacturing scenario. The technologies that are incorporated for the decision-making are the Internet of Technology (IoT), Cloud Computing, and Big Data. The overall framework of these technologies is connected under a common platform called Cyber Physical System (CPS). CPS is a backbone of Industry 4.0, where the physical world and virtual space are linked for a live communication environment of the shop floor. CPS provides a live digital copy of industrial assets and processes. The robust analytical decision-making system utilizes the real data captured from the various sensor devices attached to industrial physical environment. Inequalities between the economic developments of industrialized, emerging economies and developing countries could further deepen, if all countries cannot tap into digital development benefits. Energy availability, reliability and manageability are essential ingredients of energy-critical buildings. and manufacturing processes in the scope of Industry 4.0. This is driven by a mix of environmental factors, cost challenges, regulations, proactive energy consumption capabilities and the integration of alternative sources of energy in the energy mix. Industry 4.0 requires innovative technological solutions capable of limiting energy waste and providing real-time control over consumption. In short, without energy management, there is no Industry 4.0.

To keep abreast of the growing significance of Industry 4.0, to deliberate upon the role of energy management in Industry 4.0, to impart skills and knowledge on the principles and practices of energy management for emerging manufacturing processes and premises, SEEM will conduct an International capacity building workshop in association with NAM S&T Centre in January 2022.



Dr. C. S. Azad
National General Secretary - SEEM

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PROGRAM

INTERNATIONAL TRAINING WORKSHOP ON INDUSTRY 4.0 AND ENERGY MANAGEMENT

JANUARY 19-20, 2022

(A VIRTUAL EVENT)

ORGANISED BY



**SOCIETY OF ENERGY ENGINEERS AND MANAGERS (SEEM) INDIA
&
CENTRE FOR SCIENCE & TECHNOLOGY OF THE NON-ALIGNED
AND OTHER DEVELOPING COUNTRIES (NAM S&T CENTRE) NEW
DELHI, INDIA**



The global manufacturing sector has witnessed various industrial revolutions. Currently in the fourth industrial revolution phase, high technological production strategies blended with intelligent decision support system, takes the sector to new heights of productivity.

The principle of Industry 4.0, unlike the traditionally hierarchical and centralized manufacturing system, exhibits a decentralized architecture in which autonomous industrial components connect with one another. These autonomous components interact among themselves with a connected *Decision Support System (DSS)* to self-diagnose and self-respond in the overall manufacturing scenario. The technologies that are incorporated for the decision-making are the Internet of Technology (IoT), Cloud Computing, and Big Data. The overall framework of these technologies is connected under a common platform called *Cyber Physical System (CPS)*. CPS is a backbone of Industry 4.0, where the physical world and virtual space are linked for a live communication environment of the shop floor. CPS provides a live digital copy of industrial assets and processes. The robust analytical decision-making system utilizes the real data captured from the various sensor devices attached to industrial physical environment. In the near future, inequalities between the economic developments of industrialized, emerging economies and developing countries could further deepen, if all countries cannot tap into digital development benefits.

Energy availability, reliability and manageability are essential ingredients of energy-critical buildings and manufacturing processes in the scope of Industry 4.0. This is driven by a mix of environmental factors, cost challenges, regulations, proactive energy consumption capabilities and the integration of alternative sources of energy in the energy mix. Industry 4.0 requires innovative technological solutions capable of limiting energy waste and providing real-time control over consumption. In short, without energy management, there is no Industry 4.0.

To keep abreast of the growing significance of Industry 4.0, to deliberate upon the role of energy management in Industry 4.0, and to impart skills and knowledge on the principles and practices of energy management for emerging manufacturing processes and premises in future, the **Centre for Science & Technology of the Non-Aligned and Other Developing Countries (NAM S&T Centre)** jointly with the **Society of Energy Engineers and Managers (SEEM), India** is organizing a two days **International Training Workshop** on '**Industry 4.0 and Energy Management**' during **January 19-20, 2022**. The Workshop will be held in **Virtual Mode**.

Objectives of the Training Workshop

The Training Workshop intends to provide basic knowledge on the subject through interactive lectures about various aspects of the Industry 4.0 framework and explore the disruptive management practices of Industry 4.0 with various opportunities and challenges of the energy management in Industry 4.0 era.

Topics to be Covered

The Training Workshop will cover the following:

- State of the Art for Industry 4.0
- Industry 4.0: Concepts, Technologies and Challenges for Developing Countries
- Reactive to Proactive Maintenance through IoT
- Industry 4.0 and Sustainable Energy
- Driving Energy Efficiency through the Industry 4.0 Approach
- Energy Management for Industry 4.0 –Technology and Products

IMPORTANT DATES

Date of the Program	19-20 January 2022
Submission of Application Starts	08 November 2021
Last Date for Submission of Application	05 January 2022
Last Date for Submission of Full Manuscript	10 January, 2022
Confirmation to Selected Applicants and Communication of Virtual Platform Details (Link)	12 January 2022

A TENTATIVE PROGRAM SCHEDULE

Programme (IST: GMT + 5.30hrs.)	TOPICS	
	19 January 2022	20 January 2022
10:00-11:00 AM	Inauguration	Industry 4.0 and Sustainable Energy
11:00 AM-12:00 PM	State of the Art for Industry 4.0	Driving Energy Efficiency through Industry 4.0 Approach
12:00-1:00 PM		
1.00-2.00 PM	Break	
2.00-3.00 PM	Industry 4.0: Smart Manufacturing Concepts, Technologies and Challenges for Developing Countries	Energy Management for Industry 4.0 - Technologies and Products
3.00-4.00 PM		
4.00-5.00 PM	Reactive to Proactive Maintenance through IoT	Concluding Session, Discussion and Feedback

A final *Session-wise Programme* will be made available before the Workshop.

The Participants of the Virtual International Training Workshop will receive a Participation Certificate electronically.



PROGRAM

INTERNATIONAL TRAINING WORKSHOP ON INDUSTRY 4.0 AND ENERGY MANAGEMENT

JANUARY 19-20, 2022

(A VIRTUAL EVENT)

ABOUT THE ORGANISERS

NAM S&T CENTRE

The Centre for Science and Technology of the Non-Aligned and Other Developing Countries (NAM S&T Centre; www.namstct.org) is an Inter-Governmental Organisation with a Membership of 47 countries spread over Asia, Africa, Middle East and Latin America. The Centre was set up in 1989 in New Delhi, India based on decisions taken during various NAM Summits and mandated to undertake a variety of programmes, including organisation of workshops, symposiums and training courses and implementation of collaborative projects. It also offers short-term *Research Fellowships* to scientists from developing countries in association with the *Centres of Excellence* in various countries. The Centre also brings out technical books, monographs and other scientific publications in different S&T subjects of interest to developing countries. The Centre's activities provide opportunity for scientist-to-scientist contact and interactions; familiarizing participants on the latest developments and techniques in the subject areas; identification of the requirements of training and expert assistance; locating technologies for transfer between the Members and other developing countries, and dissemination of S&T information etc. In addition, the Centre encourages Academic-R&D-Industry interactions in the developing countries through its "NAM S&T-Industry Network".

SOCIETY OF ENERGY ENGINEERS AND MANAGERS (SEEM)

Society of Energy Engineers and Managers (SEEM), India is the national professional body of Certified Energy Managers, Auditors and Energy Professionals in India. SEEM has 15 chapters and 7 centers, spread over 22 states and is engaged in delivering networking and skill development opportunities to its members, by organizing training programs, workshops, etc. SEEM works to help industries achieve the important goal of realizing energy efficiency, choosing the right service that gives the best possible outcome from energy audits, and engaging in meaningful discussions to achieve industrial energy efficiency targets. To share knowledge, insights and case studies from other industries, experts and agencies from India and abroad, SEEM also publish a quarterly print magazine 'Energy Manager'.

PARTICIPANTS

Researchers, scientists, technocrats, innovators, government officials and policy makers, legal experts, and representatives from industry and non-government organizations - who are engaged in the field of Technology, Industry and Energy, are invited to participate in this Virtual Training Workshop. The combination of participants from various developing countries will allow for exchange of knowledge, ideas and experiences as well as opportunities for global networking and collaboration.

English will be the official language of the programme.

RESOURCE PERSONS

The resource persons for the Training Workshop will comprise eminent experts and professionals in the relevant fields from India and abroad.

SUBMISSION OF APPLICATION

Experts and scientists desirous of participating in the Training Workshop, excepting those from India, are required to submit their application electronically to the NAM S&T Centre (namstcentre@gmail.com) as early as possible, latest by 5th January 2022.

Applicants from India should, however, submit their requests directly to the SEEM, India.

The following documents must be submitted as e-mail attachments:

- Filled in Nomination Form (Blank form enclosed)
- Opinion (a short paragraph; in MS-Word format) how you qualify to participate in the Training Workshop
- A short CV (maximum two pages; in MS-Word format) [Format Enclosed]
- An Extended Abstract (in MS-Word only) of the Paper that would be presented at the Training Workshop

Note: The documents at (ii), (iii) and (iv) above must be in MS-Word format only; PDF or image files will not be accepted. Hard copies of the Application Form and the above attachments are NOT REQUIRED to be submitted.

PRESENTATION OF PAPERS

Delegates / Participants are expected to present a Country Status Report and / or a research/ scientific paper on any of the themes appropriate to the

PUBLICATION OF PROCEEDINGS OF THE TRAINING WORKSHOP

A publication edited by one or more international experts and based on the papers presented by the participants during the Workshop and also containing papers contributed by eminent experts in the field will be brought out in the form of a book as follow up of this program. Therefore, all participants are requested to submit the manuscripts of their full papers in MS-word format well in advance, but latest by 10th January 2022.

SELECTION OF APPLICANTS

Selection of applicants will be made based on their academic and professional background. Successful applicants will be electronically informed about their selection by **12 January 2022**.

The details about the virtual platform that will be used for the Training Workshop and log-in details for joining the program will also be communicated to the selected applicants. Other details and terms & conditions for the participation of scientists from various countries will be given to the individual candidates on receipt of their applications.

CONTACT DETAILS

NAM S&T CENTRE

Dr. Amitava Bandopadhyay

Director General

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For downloading the application form, please see our website
www.seemindia.org



PROGRAM

WATER AUDIT - THE NEED OF THE HOUR

29 - 30 OCTOBER 2021 06.30 PM TO 08.30 PM



ABOUT THE ORGANISER

Society of Energy Engineers and Managers SEEM India is the national professional body of Certified Energy Managers, Auditors and energy professionals in the country launched in 2005 and registered under the Charitable Societies Act 1955. We are a nongovernment/ not-for-profit organization with 15 chapters and 7 centers, spread over 22 states and engaged in delivering networking and skill development opportunities to its members, by organizing training programs, workshops, etc.

E - Certificate will be issued on successful completion of training.

COURSE FEE (INCLUDING GST):

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

- General - Rs. 800/-
- SEEM Members & Faculties from Educational Institutions - Rs. 600/-
- Students - Rs. 300/-

REGISTRATION LINK

<https://forms.gle/fLoQ7xf9YVaYQmn9>

CONTACTS:

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Address:
Society of Energy Engineers and Managers
SEEM Bhavan, KRA A79,
Kannammoola Medical College P.O.
Trivandrum, Kerala, India - 695011

KEY TAKEAWAYS FROM THE E-COURSE

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.

Water Audit is the systematic process of obtaining the water balance in a facility by measuring inflow, the actual quantity of water uses and the Non-revenue water (NRW) and suggesting measures for reducing NRW and water conservation.

AIM OF WATER AUDIT

1. To assess the Non-Revenue Water (NRW) in the facility
2. To evolve bench marks for different water uses
3. To suggest measures to reduce NRW and ensure efficient water use

COURSE COVERAGE

Day I: Water Audit and Non-revenue water

Module 1: Water Distribution

- ❖ Water - an economic commodity
- ❖ Components of water supply systems
- ❖ Water transmission- hydraulics of pipe flow
- ❖ Types of pipes and pipe joints - selection of pipe materials
- ❖ Types of pumps

Module 2: Non-revenue Water

- ❖ Leakages in pipes - causes - effects - prevention
- ❖ Real loss and apparent loss
- ❖ Indicators related to leakage

Module 3: Water Audit

- ❖ Types and benefits of water audit
- ❖ Guidelines in conducting water audit
- ❖ Tools and Instrumentation for water audit
- ❖ Steps in conducting water audit
- ❖ Water balance and assessment of NRW
- ❖ Water audit report

Module 4: Control of Non-revenue Water

- ❖ Leakage detection and rectification
- ❖ Main replacement
- ❖ Water conservation techniques
- ❖ Fixing aerators in faucets

- ❖ Infrastructure management
- ❖ Pressure management
- ❖ Overview of STP
- ❖ Recycle & Reuse

Day II

Module 5: Water Conservation in Green Buildings - An overview

Module 6: Case Studies of Water Audit

1. Public Water Supply systems
2. Industries
3. Apartment Complexes
4. Individual houses

ABOUT THE TRAINER




Dr. R.Pannirselvam 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.


Dr. R.Pannirselvam 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 Centers.

PROGRAM





THE GT ACADEMY
 Learn | Aspire | Inspire

society of
 energy engineers
 and managers

 सीमूसेम

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](#)

Contact :
 Ms. Donna Arcangela
 E-mail:
training@greentree.global

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.



REPORTS

Webinar on “various financial options for energy efficiency projects & ESCOS”

Society of Energy Engineers and Managers, Karnataka Chapter conducted a webinar on “Various Financial Options for Energy Efficiency Projects & ESCOS” on 9th October 2021. Mr. Virjin Jawahar, Chief Manager- State Bank of India, Bengaluru LHO was the Presenter. He is a graduate Mechanical Engineer and Postgraduate in Computer Integrated Manufacturing and working with SBI at Local Head Office Bengaluru for last 10 years. He has more than 16 years experience Techno Economical Viability Assessment, evaluation of proposals, risk evaluation etc. He presented the details about various financial options, Partial Risk Sharing Facility for Energy Efficiency (PRSF), criteria and process for funding ESCO projects, other financial options for MSME sector. He emphasized the importance of energy auditors in ESCO projects and base line energy audits. Session was followed by a question answer session.

India's trade deficit in September surged to a record \$22.6 billion, its highest in at least 14 years, driven by expensive imports.

Kapoor said the Organization of the Petroleum Exporting Countries and its allies, together known as OPEC+, should raise production to bring down global oil prices.

"OPEC+ should realise that this is not the right approach, they must step up production. If the demand is going up and you are not increasing production, you are trying to create a gap," he said.

"Due to this, prices are going up and that's not fair"

OPEC+ producers recently agreed to stick to a plan to increase November output by 400,000 barrels per day (bpd) as it looks to phase out output curbs of 5.8 million bpd over time.

Kapoor said rising oil prices would prompt oil consumers to "seriously start thinking of shifting to other forms or curtail their demand for OPEC oil somehow".



"These kind of prices are not sustainable."

India is already reducing the share of OPEC oil in its crude mix as refiners, that have invested billions of dollars in refinery upgrades, are tapping cheaper oil.

High oil prices are spurring investment in upstream activities, that could lead to higher production from regions other than the Gulf, Kapoor noted.

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

NEWS

India plans refiners' joint oil deals to cut import bill

NEW DELHI: India is forming a group that brings together state-run and private refiners to seek better crude import deals, oil secretary Tarun Kapoor said on Tuesday, as the country grapples with soaring oil prices.

The world's third largest oil importer and consumer, India depends on imports for about 85% of its crude and buys most of it from Middle East producers.

Initially the group of refiners will meet once in a fortnight and exchange ideas on crude purchases.

"The companies can form joint strategies and they can even go for joint negotiations wherever possible," Kapoor, the top bureaucrat in the petroleum ministry, told Reuters.

"The companies can form joint strategies and they can even go for joint negotiations wherever possible," Kapoor, the top bureaucrat in the petroleum ministry, told Reuters.

Indian state refiners already jointly negotiate some crude oil purchases.

To date the one effort at a joint negotiation bringing together not only state-run but private refiners resulted in a deal that secured supply of Iranian oil at a deep discount <https://www.reuters.com/article/us-india-iran-oil-idUSKCN1G10T4>.

With local gasoline and gasoil prices rising to a record high amid India's worst power crisis in years, the nation wants to redouble its efforts to buy wisely.

Ather Energy obtains rights to AiKaan's over-the-air platform

Mumbai: Electric two-wheeler maker Ather Energy has obtained the rights to AiKaan's over-the-air (OTA) platform from its partner, AiKaan Labs, which will give it an end-to-end control over its connected vehicle software, the company said on Thursday. AiKaan is a software solution designed to monitor, manage, securely access, and upgrade Internet of Things (IoT) edge devices.

AiKaan Labs has been working with Ather since its inception to develop the OTA solution, and has played a key role in deploying all OTA updates on Ather e-scooters so far, the company said.

With the new rights to AiKaan's strategic platform, the company further strengthens its connectivity platform with complete control over the OTA update of the software, it said.

Contd. on the next page...



NEWS

OTA is the basis of Ather's connected vehicle platform, enabling its Ather 450 product line to be up-to-date with its latest software and feature offerings while also collecting field data to enhance product design and user experience remotely, it said.

Integrating the Aikaan technology with Ather's Cloud platform, vehicles, and charging infrastructure would accelerate the end-to-end smart and connected use cases with a seamless user experience, the EV maker said.



"Over the years, we have been working closely with Aikaan Labs to develop the OTA solution that makes our vehicles ever-improving two-wheelers. OTA updates for vehicles is a capability that is a game-changer in this industry.

"At Ather, we strongly believe the future of mobility is 'connected'. Connected mobility will be strongly dependent on edge device management technology. The addition of Aikaan's technology will further accelerate intelligent vehicles, thus revolutionising our commute and life experiences seamlessly," said Swapnil Jain, Co-founder and CTO, Ather Energy.

Ather Energy said it has been investing in connected capabilities since inception to redefine mobility and vehicle ownership over time.

The company's in-house telematics platform and connectivity infrastructure offers smooth experiences to its customers and introduced new features via OTA upgrades such as 'guide me home lights', call and music control via the dashboard, remote monitoring, vehicle tracking, real-time vehicle health alerts, among others.

"In the coming months, we are going to experience more and more Vehicle-to-Everything (V2X) services. The software is going to be the key differentiator and Ather is positioned at a big advantage. AiKaan's management and orchestration technologies will accelerate the transformation of the way we experience connected two-wheelers," said Chetan, CEO, Aikaan Labs.

The Bengaluru-based company currently offers its flagship e-scooter Ather 450X and operates across 23 cities including Bengaluru, Chennai, Hyderabad, Pune, Jaipur, Kochi, Ahmedabad, Mumbai, Mysore, and Hubli.

Source: <https://energy.economictimes.indiatimes.com/news/power/ather-energy-obtains-rights-to-aikaans-over-the-air-platform/87181824>

Haryana to announce electric vehicle policy within a month: Deputy CM

Chandigarh: The Haryana government will come out with Electric Vehicle Policy-2021 within one month, Deputy Chief Minister Dushyant Chautala said on Thursday. Chautala, who also holds the portfolio of the Industries and Commerce Department, said this after a meeting on "Haryana Electric Vehicle Policy-2021" with senior officers of various departments here.

He said the government is consistently working to ensure that the policy being formulated for e-vehicles is the best in the country.

The deputy chief minister also said that for the framing of this policy, three rounds of discussions have been held with the officials earlier and on Thursday final consultations were held.

Chautala said this policy will be released within one month, according to an official statement.

He said this policy is being formulated by the state government while focusing on the e-vehicle manufacturers, user drivers and people setting up charging stations, for whom special exemptions will be given.

The state government is focussing on promoting two-wheeler, three-wheeler and four-wheeler e-vehicles, he added. He also informed that the state government has a plan to have maximum e-vehicles in the state in 2022.



Source::

<https://energy.economictimes.indiatimes.com/news/power/ather-energy-obtains-rights-to-aikaans-over-the-air-platform/87181824>



NEWS

AGEL arm bags 450 MW wind energy project

New Delhi: Adani Green Energy subsidiary Adani Renewable Energy Holding Fifteen has received a letter of award (LOA) for setting up a 450 MW wind energy project. "Adani Renewable Energy Holding Fifteen Limited, a wholly-owned subsidiary of Adani Green Energy Limited had participated in a tender issued by Solar Energy Corporate of India Limited (SECI) for setting up 1,200 MW ISTS-connected Wind Power Project (Tranche-XI) and has received the Letter of Award (LOA) to set-up 450 MW wind power project under this tender," a BSE filing said.

The fixed tariff for this project capacity is Rs 2.70/ kWh for 25 years.

With this, AGEL now has a total renewable energy project portfolio of 20,284 MWac capacity, out of which 5,410 MWac projects are operational, 5,724 MWac projects are under construction, and 9,150 MWac projects are near construction.

'Near Construction' denotes that a Letter of Award is received and PPA (power purchase agreement) to be signed.



Source: <https://energy.economictimes.indiatimes.com/news/renewable/agel-arm-bags-450-mw-wind-energy-project/87201923>

Andhra Pradesh: 25% jump in demand for solar power units

VIJAYAWADA: People are now eyeing renewable energy sources, thanks to the shortage and skyrocketing price of electricity. Solar energy happens to be the cheapest form of renewable energy and people are showing renewed interest in buying solar power units.

Andhra Pradesh government had been promoting solar energy on a big scale till 2020. Government provided subsidies on agriculture solar pump sets which received a huge response from farmers. Majority of educational institutions and government offices installed solar power units with net metering systems. "Solar is the best suitable renewable energy generation system for our region. We will witness around 285 sunny days per annum on an average. Every household can generate electricity by installing solar panels at their homes. But people ignore them considering the high investment and maintenance," said M Ravi Kumar, a retired divisional engineer at APSPDCL.

The situation is slowly changing with the proposed power cuts, coal shortage and power tariff hike. Enquiries for on grid and off grid solar power units have increased in the state from October 1, say traders. "The demand for solar units increased by 25 per cent after October 1. A 3 KW unit can generate up to 12 units of power. The production further increases in summer. We have sold around 14 units so far this month while we sold only 3 units in September," said Md Ismail, a solar panel trader in Jawahar Autonagar in city. Incentives from the government in the form of subsidies will help boost the sales and we also urge the governments to create awareness campaigns, he added.

People should not have wrong conceptions on costs as one can get the investment back within four years of installing the unit," said P Bhagavan Narayana, an environmental lover.



Source: <https://energy.economictimes.indiatimes.com/news/renewable/andhra-pradesh-25-jump-in-demand-for-solar-power-units/87201532>



NEWS

Amazon, IKEA, and Unilever commit to zero-carbon shipping by 2040

New Delhi: Amazon, IKEA, Unilever, and other major global retailers have committed to progressively switch all of their ocean freight to vessels powered by zero-carbon fuels by 2040.

This is a major step towards reducing emissions from ocean freight to absolute zero and thereby aligning the sector with the 1.5 degree Celsius temperature goals of the Paris Agreement," said a statement by Cargo Owners for Zero Emission Vessels (coZEV), a new cargo owner-led network.

Maritime shipping currently accounts for about 3 per cent of all global carbon emissions, which could rise to 10 per cent by 2050 without decisive action to decouple shipping emissions from global trade growth, by getting ships off fossil fuels.

The announcement comes as governments meet virtually this week at the UN's International Maritime Organisation to discuss setting a target of zero emissions for global shipping by 2050, and a global carbon price to help get there.

According to the official press release, Amazon, Brooks Running, Frog Bikes, IKEA, Inditex, Michelin, Patagonia, Tchibo, and Unilever are the first signatories to the 2040 ambition statement facilitated by coZEV. Facilitated by the Aspen Institute, a global nonprofit, this platform is for multinational firms to accelerate the transition to zero-carbon maritime shipping.

Maritime shipping, like all sectors of the global economy, needs to decarbonise rapidly if we are to solve the climate crisis, and multinational companies will be key actors in catalysing a clean energy transition in shipping," said Dan Porterfield, President and CEO of the Aspen Institute.

At present, maritime shipping powered by heavy fuel oil produces one billion tonnes of climate pollution each year — as much as a G7 country or all of America's coal-fired power plants combined.

"To mitigate these negative impacts and align with Paris Agreement goals, the maritime shipping industry must transition to zero-carbon fuels by the mid-2020s, use them at scale by 2030, and be fully decarbonised by 2050, at the latest," said the press release.

Currently, the International Maritime Organization, shipping's global regulator, is working under a draft greenhouse gas strategy for shipping that only requires the sector to reduce its absolute emissions by at least 50 per cent by 2050 compared to 2008.

Source:: <https://energy.economictimes.indiatimes.com/news/oil-and-gas/amazon-ikea-and-unilever-commit-to-zero-carbon-shipping-by-2040/87154933>

GAIL to build India's largest green hydrogen plant

New Delhi: State-owned GAIL (India) Ltd will build India's largest green hydrogen-making plant as it looks to supplement its natural gas business with carbon-free fuel. Speaking at India Energy Forum by CERAWEEK, GAIL chairman and managing director Manoj Jain said the company has floated a global tender to procure an electrolyser.

"It will take 12-14 months to put the plant," he said adding the company has finalised 2-3 sites for the unit including one at Vijaipur in Madhya Pradesh.

Jain said the plant planned is for 10MW capacity, the largest announced so far in the country.

State electricity producer NTPC has announced a 5MW green hydrogen plant.

"We have on a pilot basis started mixing hydrogen in natural gas in one of the cities," he said adding the company is testing for idea mix percentage before scaling it up.

The hydrogen Gail plans to produce can be sold to fertiliser units which as per government mandate are required to use hydrogen as fuel, he said.

India's largest gas transporting and marketing company is also looking at newer avenues to boost business including pushing for use of LNG as fuel in long haul trucking.

"For India to achieve the target of raising the share of natural gas in the energy basket to 15 per cent gas usage by 2030 from current 6.2 per cent, gas consumption has to rise three and half times to 600 million standard cubic meters per day. And for this to happen, all sectors have to jump in," he said.

The government, he said, is pushing for use of LNG as fuel transport and mining sector.

"We as the industry will set up 20 LNG dispensing stations on Golden Quadrilateral by March 2022 and 500-600 outlets in 3-4 years. The ultimate target is 1,000 LNG stations," he said.



Source:: <https://energy.economictimes.indiatimes.com/news/oil-and-gas/amazon-ikea-and-unilever-commit-to-zero-carbon-shipping-by-2040/87154933>



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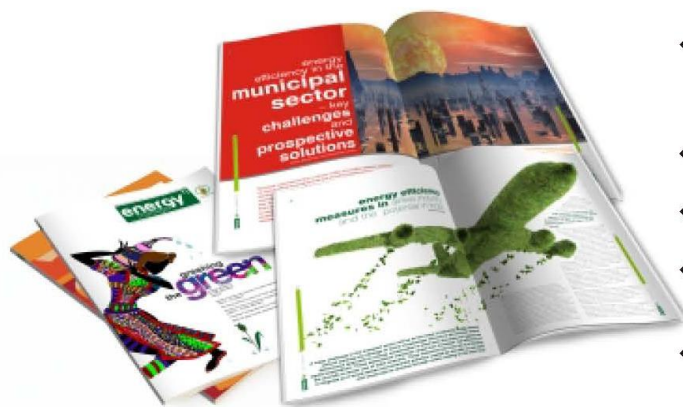
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