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## seem NEWS

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energy engineers  
and managers

## VIEW POINT

Beyond energy conservation, over to sustainability.

From twenty ninth of July this year onwards we are on overdraft. Yes we have already exhausted the replenishable resources our mother earth could provide us for this year. Now onwards we are borrowing from our future generations.

The most approximate available estimation of sustainability now is the estimate of global foot print and the biocapacity of earth. Every year the Earth overshoot day is estimated collating the various demands we the humans inflict on the earth as our global footprint and is compared with the capacity of the earth to meet the demand during the year as bio capacity. The day the global footprint exceeds biocapacity is the Earth overshoot day.

Year after year this day is getting closer to the start of the year, with an exception in 2020 when COVID pushed back the Earth overshoot day to August.

This overshoot day I happened to estimate my footprint which to my alarm was found to be around four times that of an average Indian. It is morally disturbing me. What right do I have to put that extra demand on Indian soil than another fellow citizen? I am taking a solemn pledge to reduce my footprint and reduce my conscience prick.

It is the extrapolation of my studies in energy conservation which has prompted me to go beyond just energy. Energy is an important factor in the whole concept of sustainability, but it is not the whole.

It will bode well for all my fellow energy professionals to likewise explore their real calling by going beyond and serve a larger cause of a sustainable future for the whole planet. That visualization will enable you to find more exalted purpose of your education, experience, and wisdom, you have achieved. That enlightenment can bring about miracles not only in your lives but to many fellow brethren and also to our globe.

As the nations have taken up nationally determined contributions to reduce emissions, why not we individuals take up individually determined contributions towards reduction in our footprints. Collectively that effort will help in pushing back the Earth Overshoot Day to comfortable levels and help in preserving this planet for future generations. I call upon the energy professionals to ponder over this, spread the message and take action to save precious resources for our country and our planet

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

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## PROGRAM

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

SEEM Karnataka Chapter is organizing 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 is the trainer for the Program. Course details is as below.

## TRAINING On

## ELECTRICAL SAFETY

27-28 August 2021  
7.30 pm to 8.30 pm

### Organised by



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

E Certificate will be issued on successful  
completion of training

## Training on Electrical Safety

### Day - 1

1. Electrical Safety overview
2. Electricity ACT and CEA Regulations
3. Safety Audit and methodology
4. Q & A

### Day - 2

1. Grounding, Earthing and Lightning
2. Electrical Fire – Causes and Control
3. Electrical Incidents – First Aid
4. Case Studies
5. Q & A

### Course Fee

General -Rs.700 + 18% GST

SEEM Members- Rs.500+ 18% GST

Students -350+ 18% GST

### Registration Link:

<https://forms.gle/wVqXptqKqTZExosL8>

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## Trainer



Jayaprakash Narayan

(Founder and Tech Head, e-Xcel Energy, Bengaluru) BE , MSc Engg- IISc, MIEEE, MIETE, MISHARE, Chairman SEEM Karnataka Chapter. He has worked as scientist GOI, Founder Director Enercon Systems (Later Conzerv Systems) and Sr VP R&D Alarcity Electronics Limited (Atandra). He has around 35 years experience in R&D, product development, power quality and electrical safety. He has carried out power quality and safety audits in 21 countries.

### Contact

[seemtraining@gmail.com](mailto:seemtraining@gmail.com)

[seemhq2011@gmail.com](mailto:seemhq2011@gmail.com)

0471-2557607

Saranya- 94460 67607

Jayaprakash Narayan- 99166 30022

Benet George -96118 00893



## REPORT

## Webinar on AC Motors on 24<sup>th</sup> July, 2021

Tamil Nadu Chapter conducted a webinar on July 24<sup>th</sup> 2021 on the Topic “.A.C. Motors at the centre of Energy Use , efficiency and Conservation”. Mr. Mahadevan, Past Chairman, SEEM Tamil Nadu Chapter was the Speaker. The important points discussed are

1. The history of Motors and the Evolution of Energy Efficiency Motors
2. Illustrated the principles with several case Studies and offered valuable tips for Energy Auditors in Electric Motor Audit
3. Stressed the importance of End Use Efficiency which is often overlooked
4. Finally explained the Application of Motors in Agriculture and the role of Single Phase Motors.

Webinar was quite interesting and went on for about 2 hours and 50 Participants were attended.

## Webinar on “Driving Energy Efficiency through the Industry 4.0 Approach.”

Society of Energy Engineers and Managers, Karnataka Chapter conducted a webinar on “Driving Energy Efficiency through the Industry 4.0 Approach” on 10<sup>th</sup> July 2021. Sridhar Chidambaram–(Principal Consultant– Advanced Engineering Group- Infosys, BEE Accredited Energy Auditor) was the presenter.

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

Presenter given insights on approach to drive and implement energy efficiency through the Industry 4.0 Maturity Index, which ensures efficient operations on a continuous basis by monitoring and analyzing operational data pertaining to resource consumption. Also shared case studies on implementation of IOT devices, monitoring and control using insights from energy data analytics etc.

Webinar was well accepted by the participants.

## SEEM NATIONAL ENERGY MANAGEMENT AWARDS 2020

[Please Click here to watch the virtual EVENT](#)

## NEWS

## SAP India bets on internet-led businesses to boost growth in India

New Delhi: [SAP](#) is looking at expanding its presence in new segments such as internet-led businesses in India while continuing to bolster its play in sectors like oil and gas, public services and retail, a top executive said.

SAP Indian Subcontinent President and Managing Director [Kulmeet Bawa](#) said that while the environment has been extremely volatile because of the pandemic, there has also been a fast-paced adoption of digital.

"Despite all of this (pandemic-related changes like remote working), business has shot up exponentially. We've had amazing business results over the year, the last three quarters specifically," he said.

Bawa added that three or four years ago, organisations, enterprises and MSMEs were talking to the company about 'why' they should go digital, but in the last one year, the questions have all been around 'how'.

"How do we do this faster, how do we do this in a better manner, how do we adopt digital more holistically through a business transformation lens rather than a typical lift and shift or a technology lens - those are the questions.

"These are more focused on holistic business lens rather than a technology lens and we are seeing this across MSMEs and enterprises," Bawa noted.

The executive pointed out that there has also been a rapid adoption of cloud technologies, and the German enterprise software major, which has traditionally been an on-premise solutions provider, has also embraced this shift as customers are demanding that.

"We work today across 25 or 26 industry segments, and we are deep into each of them.

"Oil and gas and, [CPG](#), retail, public services - we have been deeply ingrained in these segments and we are building further into that. We are also going deeper into some areas which are newer for us," he said.

Bawa said areas like banking, financial services and insurance was not a stronghold for SAP but the company has been strengthening its presence in that segment.

"...insurance has always been good for us but typically banking or financial services in the long tail of fintechs as we call it, is a brand new area...we are actually investing a lot in internet businesses, that's a big area of investment and focus for us," he added.

Talking about its micro, small and medium enterprises (MSME) vertical, Bawa said the segment has been doing well and is an important segment for the company.

"I think we are going much deeper with a lot more investments, trying to do a lot more for the MSMEs...

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## REPORT

"MSME is one of the key pillars of our India strategy and it's very close to the heart of our leadership team because that's one area where we can actually make a dent and help the Indian economy," he said.

Asked if there was an impact of the pandemic on its MSME segment, Bawa said "we've seen a lot of traction coming in from this segment, even over the last few months".

He added that the business has been more than what the company has seen in the past. "But, if you want to talk about the business landscape that we are seeing, there is a volatile environment in terms of the demand and supply," he added.

Bawa said the pandemic has brought digital-first organisations to the forefront all across, and the smallest businesses are grabbing the opportunity to develop and build agile and resilient business models that can be pivoted based on the demand.

"A lot of MSMEs that we are seeing are going digital-only rather than digital first and that's again a very very interesting scenario. We used to talk about the lines between online and offline blurring for a long time.



"But, today, I would say for a very large number, those lines are actually blurred and some of them are moving to the other side, talking about digital-only," he added

Source: <https://energy.economictimes.indiatimes.com/news/oil-and-gas/sap-india-bets-on-internet-led-businesses-to-boost-growth-in-india/84947800>

## India's fuel demand picks up in July, petrol at pre-Covid level

New Delhi: India's fuel demand picked up in July as easing of pandemic-related restrictions accelerated economic activity, helping petrol consumption reach pre-Covid levels, preliminary sales data showed on Sunday.

State-owned fuel retailers sold 2.37 million tonnes of petrol in July, up 17 per cent from the year earlier period. It was 3.56 per cent higher than pre-Covid petrol sales of 2.39 million tonnes in July 2019.

Sales of diesel - the most used fuel in the country - rose 12.36 per cent to 5.45 million tonnes over the previous year, but was down 10.9 per cent from July 2019.

This is the second straight month that showed a rise in consumption since March.

Fuel demand had recovered to near-normal levels in March before the onset of the second wave of COVID-19 infections led to the re-imposition of lockdowns in different states, stalling mobility and muting economic activity.

Consumption in May slumped to its lowest since August last year amid lockdowns and restrictions in several states. Fuel demand showed signs of resurgence in June after restrictions began to be eased and the economy gathered pace.

On July 30, S M Vaidya, Chairman of India's largest oil firm IOC, had stated that petrol consumption has risen over pre-Covid levels as people prefer personal transport over public transport.

Diesel sales, he said, were likely to return to pre-pandemic levels by Diwali in November if a third wave of Covid infections does not lead to reimposition of lockdown.

ATF consumption, which had seen the most severe fall as air travel was restricted beginning March 2020, is likely to return to normal by the end of the current fiscal in March, he had said.

Consumption of LPG, the only fuel which showed growth even during the first lockdown because of free supplies by the government to the poor, rose 4.05 per cent year on year to 2.36 million tonnes in July. It was up 7.55 per cent over July 2019.



Source: <https://energy.economictimes.indiatimes.com/news/oil-and-gas/indias-fuel-demand-picks-up-in-july-petrol-at-pre-covid-level/84947702>

With airlines yet to resume full-scale operations because of travel restrictions around the globe, jet fuel sales at 2,91,100 tonnes was up 29.5 per cent year on year but 53.1 per cent lower than July of 2019.

India's oil demand had dropped by 0.5 million barrels per day in 2020, led by a steep weakening in transportation fuel, mainly in April-June 2020.

Extended lockdown measures, coupled with limitations on mobility, diminished oil product requirements. Petrol and jet fuel recorded historical declines compared with the same period in 2019. Diesel was down, in line with weakness in industrial activity, as well as in road construction and agriculture.



## NEWS

## Power engineers find new method to desalinate water using solar energy



Yekaterinburg: Ural Federal University (UrFU) power engineers recently developed a new desalination technology that will reduce the cost of desalination and quadruple the volume of production. The results of the research are published in the journal Case Studies in Thermal Engineering.

Today one of the most popular and simple ways of desalination is the distillation of the water with help of solar energy.

UrFU scientists, together with colleagues from Iraq, have developed a hybrid technology to increase the efficiency of evaporation inside a solar distiller by means of a rotating hollow cylinder and a solar collector.

"We created a desalination technology by using a rotating hollow cylinder inside the solar distiller to accelerate water evaporation in the vessel by forming a thin film of water on the outer and inner surface of the cylinder, which is constantly renewed with each turn. To increase the temperature of water under the cylinder we use a solar collector," said the head of the department Nuclear power plants and renewable energy sources UrFU Sergei Shcheklein.

As part of the experiment, the rotation speed of the cylinder inside the solar distiller was 0.5 rpm. This intensity and time are enough to evaporate a thin film of water from the surface of the cylinder.

Experimental tests were held in Ekaterinburg, Russia for several months (June-October, 2019) and showed high efficiency and reliability of the developed device. In addition, the researchers noted that the relatively high intensity of solar radiation and low ambient air temperature also contributed to the performance of water distillation.

"The performance improvement factor of the created solar distiller, compared to traditional devices, was at least 280 per cent in the relatively hot months (June, July, and August) and at least 300 per cent and 400 per cent in the cooler months (September and October). At the same time, the cumulative water distillation capacity reached 12.5 l/m<sup>2</sup> per day in summer and 3.5 l/m<sup>2</sup> per day in winter," said Alharbawi Naseer Tawfik Alwan, a research engineer at UrFU and an employee of Northern Technical University (Iraq).

The developed desalination technology with its simple design and low cost could be of interest in the Middle East and Africa -- in countries with high solar energy potential and a shortage of freshwater, believe researchers.

In the future, scientists plan to improve the technology and increase the performance of the solar distiller at the lowest possible capital and operating costs for different climatic conditions.

Source: <https://energy.economictimes.indiatimes.com/news/renewable/innovation-power-engineers-find-new-method-to-desalinate-water-using-solar-energy/84963335>

## First Solar to create 1,000 jobs in Tamil Nadu

American solar technology company First Solar Inc said on Friday that it is investing \$684 million in a new, fully vertically integrated photovoltaic (PV) thin film solar module manufacturing facility in Tamil Nadu.

The proposed facility will have a nameplate capacity of 3.3 gigawatts (GW) DC. First Solar produces its thin film PV modules using a fully integrated, continuous process under one roof and said that it does not rely on Chinese supply chains. The facility is projected to create more than 1,000 jobs in Tamil Nadu.

It would be designed using the manufacturing template established for First Solar's recently-announced factory in Ohio and would combine highly skilled workers with Industry 4.0 architecture, machine-to-machine communication, artificial intelligence and Internet of Things connectivity, the company said.

"Contingent upon permitting and pending approval of Indian government incentives that are satisfactory to First Solar, the advanced facility is expected to commence operations in the second half of 2023," First Solar said.

"India is an attractive market for First Solar, and not simply because our module technology is advantaged in its hot, humid climate. It is an inherently sustainable market, underpinned by a growing economy and appetite for energy, with a well-defined goal that will need over 25 GW of solar to be deployed every year for the next nine years," Mark Widmar, chief executive officer, First Solar, said.

"Crucially, it has combined its clean energy targets with effective trade and industrial policy designed to enable self-sufficient domestic manufacturing and true energy security. We also have many long-standing customers in the country that will be pleased to have access to an advanced PV module, which is made in India, for India," he added.

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## NEWS

The proposed facility will follow First Solar's Responsible Solar principles across sourcing, manufacturing and lifecycle management. First Solar said its manufacturing process also allows it to produce solar modules with a carbon footprint that is 2.5-times lower, a water footprint that is three times lower, and an energy payback time that is twice as fast as crystalline silicon (c-Si) panels made in China. The company's pV modules are designed and developed at R&D labs in California and Ohio.

Source:

<https://energy.economictimes.indiatimes.com/news/renewable/first-solar-to-create-1000-jobs-in-tamil-nadu/84911766>



## India wants rich countries to pay more for green energy shift

NEW DELHI: India can't prioritise eliminating greenhouse gas emissions without sufficient financing from richer nations to help offset the high cost of transitioning to clean energy, according to a senior government official.

In laying out its position ahead of key global climate talks later this year, the top bureaucrat in India's environment ministry also said the country doesn't plan to tighten its emissions goals unless more money is promised from developed economies under the United Nations-sponsored climate change agreement.

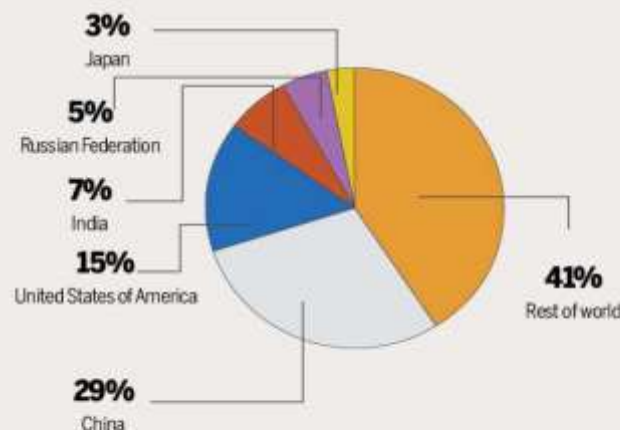


"Every policy decision has a cost to the economy. Going net-zero or using less carbon also has a cost," Environment Secretary Rameshwar Prasad Gupta said in an interview at his New Delhi office. "We are not anti-net-zero. But without adequate climate finance being definitively available, we can't commit on that part."

The stance by India, the world's third-biggest emitter, highlights a top challenge global leaders will face when they meet at the UN Climate Change Conference, which starts in late October in Glasgow.

### Top Polluters

Share of carbon dioxide emissions by countries in 2019



Source: Global Carbon Project / Bloomberg  
Note: Figures are Rounded

While cutting net global carbon emissions to zero by 2050 is key to meet the goals of the Paris Agreement, aimed at avoiding catastrophic damage from climate change, figuring out how to pay for the transition toward clean energy has been a sticking point.

Gupta also said the current \$100 billion-a-year pledge by richer nations to help developing nations -- a target they haven't even met yet -- is insufficient to make the shift.

"We have our own developmental imperatives," Gupta said. "If you want that I don't emit carbon, then provide finance. It will be much more than \$100 billion per year for developing nations."

"This is not the final decision, but most probably we won't file a revised NDC," he said. "Let there be a decision on climate finance first." As well, until negotiations are finalized around funding help, India likely won't upgrade the emissions targets it committed to in 2015, known as a Nationally Determined Contribution, which under the Paris Agreement were expected to be revised by 2020.

While the government of Prime Minister Narendra Modi discussed setting a 2050 net-zero emissions goal earlier this year, policy makers have resisted, citing the outsized role fossil fuels play in powering its growing population out of poverty, and the progress it's made on earlier climate commitments.

But India risks looking like an outlier among other developing economies. While still seeking more funds from richer states, more than 100 countries including large emerging economies like Mexico, as well as neighboring Pakistan and Bangladesh, have publicly committed to zero carbon by mid-century. Even China, previously one of the strongest voices calling on developed nations to do more, has changed its tune, aiming to decarbonize the world's top polluter by 2060.

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## NEWS

Meanwhile, Brazil has also made its commitment contingent on richer nations, saying net-zero is only possible if it can guarantee \$10 billion-per-year in contributions from other countries.

As India recovers from the pandemic-induced economic contraction, it sees international finance as key to industry overhaul needed to lower emissions. This includes banishing coal, a dirty but cheap source of energy, currently being used for about 70% of its power generation. Solutions also include replacing coal with more-expensive and untested alternatives, such as green hydrogen, in heavy industries like steel and oil refining.

## Economic impact

While the green transition does present infrastructure-driven economic growth opportunities, there would be trade-offs in the form of higher electricity prices and rail fares, job losses in the coal sector and fiscal challenges for states, according to an analysis by Vaibhav Chaturvedi, a fellow at the New Delhi-based Council on Energy, Environment and Water.

However, there are also longer-term costs for inaction. India's loss in per-capita gross domestic product by 2050 could range from 0.41%, under a low-global warming scenario if the Paris Agreement is met, to 5.08% in case of higher warming, the International Monetary Fund estimated in 2019.

The global climate talks in Scotland later this year, known as COP26, are seen as the last chance to set a plan to limit global warming to 1.5 degrees Celsius. The British government is hoping the summit will deliver an agreement by all countries to abandon coal power, with the G-7 leading the way.

While India may not set new goals before the meeting, Gupta said it's on track to exceed 2030 targets it set in 2015, including that the country's share of non-fossil fuel power generation capacity rises to 40%. It's also on course to cut its emissions intensity by a third from 2005 levels by 2023, seven years ahead of schedule, he said.

Source:

<https://energy.economictimes.indiatimes.com/news/renewable/india-wants-rich-countries-to-pay-more-for-green-energy-shift/84338560>

# Electricity Amendment Bill: Power sector employees, engineers to hold 4-day 'Satyagrah' from Aug 3

Lucknow: Power sector employees and engineers will be holding a four-day 'Satyagrah' at Jantar Mantar in New Delhi from Tuesday against the Electricity (Amendment) Bill 2021. On the call of National Coordination Committee of Electricity Employees & Engineers (NCCOEEE), power employees will hold the 'Satyagrah' against the unilateral announcement of central government to pass the Electricity (Amendment) Bill, in current monsoon session of Parliament, All India Power Engineers Federation (AIPEF) Chairman Shailendra Dubey said here

He said power sector employees of the Northern region will participate on August 3, the Eastern and the North Eastern on August 4, the Western Region on August 5, and the Southern Region on August 6.

He said that they are agitating against the unilateral approach of the central government to rush through the Bill in Parliament.

Many provisions of Electricity (Amendment) Bill 2021, are anti-people and anti-employee and if enacted it will have far reaching adverse consequences, he said.

The Bill should not be passed in Parliament in haste and it should be referred to the standing committee on energy of Parliament, he said, adding that main stakeholders of the power sector including consumers and electricity employees should be given proper opportunity to express their viewpoint on the Bill before placing it in Parliament.

He said that after four days Satyagrah at Delhi about 1.5 million power employees and engineers will resort to one day strike/work boycott on August 10, across the country.

He added that, if the government places the Bill before August 10, then strike will be preponed and all power employees and engineers shall be forced to proceed on strike same day when Bill is tabled in Parliament.

Source:

<https://energy.economictimes.indiatimes.com/news/power/electricity-amendment-bill-power-sector-employees-engineers-to-hold-4-day-satyagrah-from-aug-3/84967011>





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- Engineering students and students who would like to do research or undertake projects in the energy sector

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- Support for addressing relevant grievances

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### Editorial Profile

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### DATA

Title: energy<sup>n</sup> manager  
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Inside Full Page		70000	10,000
Half Page	18cmx12cm	45000	7,500
Inside Quarter Page	9cmx12cm	25000	5,000

**Special Offer: 30 % discount for one year contract**

**Special discounted rates for ads will be valid till 31<sup>st</sup> August 2021**