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# ieema journal

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## From the President's Desk

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## Interview

Distribution network is moving from unidirectional flow to multiple

injection network: Mr Bhavin Pandya



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## Interaction

We have been able to brought down Transmission Losses to 2.86%: T Jagath Reddy



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## Advance Metering for Managing data smartly

The role of metering in the power sector is growing in importance. A complete metering system is imperative for improving the financial health of the power distribution companies. Inadequate and faulty metering has led to lower revenue and higher losses. In the past, the electromagnetic meters installed on consumer premises were read by the utility staff manually.



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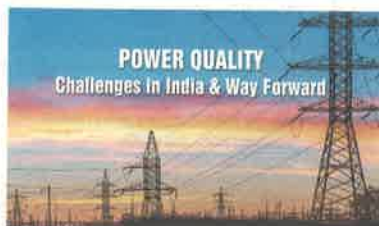
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## In Focus

### Power Quality – Challenges In India & Way Forward

Power quality (PQ) of any country portrays its prosperity. Government's initiative of 'Make in India' has attracted global players to set up industries (both manufacturing and services) in India. Apart from the Government's support, their biggest requirement is quality power.

At present, India's power system is not robust when it comes to the quality of electricity supply. This is the major reason for the slow growth of manufacturing facilities / plants set up by foreign companies.



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## In Talk

Intelligent deployment of smart meters would render 100% billing efficiency and transparency: Mr Udayan Ganguly



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## Expert Speak

### Lean Smart Grid

Smart Grid management has become complex yet interesting with the introduction of DER (distributed energy resources) and EVs (electric vehicles), the phenomenally growing numbers of moving micro storages. The aim of the Smart grid is to continuously improve energy efficiency and reduce use of fossil fuel. All of this helps in saving our planet and ensuring that we leave a rich inheritance for our future generations.

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**Event**

**IEEMA signs agreement with PSSC for training budding electricians**



IEEMA has signed an MOU with Power Sector Skill Council (PSSC) for this initiative. The agreement was signed by Mr Sunil Misra, Director General, IEEMA and Mr. Vinod Behari, CEO, PSSC as part of IEEMA's CSR activity. An amount of Rs 21 lakh will be invested in the skill development activities in 'Electrician Domestic Solutions' domain ensuring that more than 160 trainees will get trained. The skill development training will be conducted by Orion Edutech (an authorized training partner of PSSC) at their Mandir Marg center in New Delhi.

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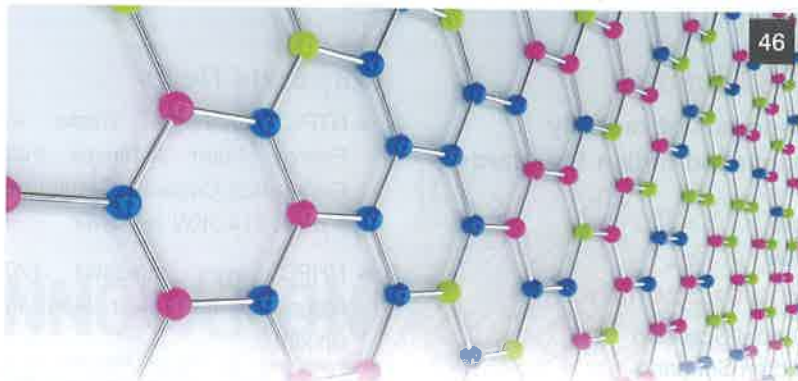
**In Focus**

**How India needs to focus on domestic manufacturers to meet the ambitious 175GW of clean energy target by 2020**

**How India needs to focus on Domestic Manufacturers to meet the ambitious 175GW of clean energy target by 2022**



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**Application of Graphene in Electrical Technology**

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**International Presence**

**ELECRAMA 2020 promotion at Middle East Electricity expo in Dubai**



ELECRAMA 2020 overseas promotion was initiated in right earnest by organising Doing Business with India networking session on the side-lines of Middle East Electricity exhibition in Dubai during 5-7th March 2019. IEEMA visited MEE which is one of the largest show on Power and served as a perfect launch pad with its large exhibitor base mostly from Europe and UK and USA..

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**Tech Space**

**Application of Graphene in Electrical Technology**

Graphene is a single layer of carbon atoms. It is a two-dimensional atomic crystal made up of carbon atoms arranged in a hexagonal honeycomb lattice. It is considered as the most amazing and versatile substance known to mankind so far. The carbon atoms are densely packed and arranged in a hexagonal pattern (called a benzene ring). Graphene is an allotrope of carbon. It has many interesting and astonishing properties, which have a promising potential for applications in composites, catalyst supports, polymer master-batches, footwear, helmets, batteries, supercapacitors, sensors and solar PV panels to name a few applications in industry, medicine and computers.

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**Opinion**

**Inertial Instruments: Spinning Wheels to Vibrating Structure Gyroscopes**

In any Inertial Instrument systems, the heart of the system is one or more gyroscope(s). The gyroscope provides a inertial reference system which is used basically for directional control and rate of turn indication.

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- U.S finalizes \$3.7 bln loan for Vogtle nuclear power plant
- India ranks 76th on WEF's global Energy Transition index; Sweden on top
- Sri Lanka tests artificial rains to avoid power cuts
- U.S. and India commit to building six nuclear power plants

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**National News**

- Power Ministry to bring norms to promote green transmission cables
- Cabinet approves Measures to promote Hydro Power Sector
- L&T's AM Naik receives Padma Vibhushan award
- Bengaluru: Over 17,000 Bescom meters in Tumakuru to go smart
- Power plants go slow on unloading coal stock

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**Corporate News**

- NTPC's Karsada Waste to Energy Plant Achieves Full Generation Capacity Generates a peak 214.3KW of power
- NHPC eyes stressed 120 Megawatt Jal Power plant in Sikkim
- PFC signs pact to acquire govt's 52.6% stake in REC for Rs 14,500 crore

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IEEMA Meter**



**Division speaks to IEEMA  
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**Sparks Sans Shocks**

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