Distribution Utility Meet (DUM) 2018

India Smart Grid Forum in collaboration with Tata Power Company Ltd as the Host Utility, organised the 2nd Annual Distribution Utility Meet (DUM 2018) on 01 and 02 November 2018 at Hotel Taj Lands End, Mumbai. NREL and Rocky Mountain Institute (RMI) joined as Knowledge Partners for the program. DUM 2018 was organised with the objective of bringing senior experts from electricity distribution utilities in India and oversees and think tanks from around the world to share their experiences in emerging technologies implementations and best practices.

Smart Grid is a new and evolving concept and utilities around the world have started gaining experience in smart grid technologies. As India embarks on its smart grid journey, it is imperative that utilities learn from each other’s experiences, challenges faces and share best practices. Towards this objective, ISGF has been organizing Distribution Utility Meet (DUM) since 2017. The 1st edition of DUM in 2017 was hosted by Bangalore Electricity Supply Company (BESCOM) in November 2017 in Bangalore.

DUM 2018 was a huge success and has received accolades from all the participants, most importantly from the Indian utilities. The meet was attended by senior officials of more than 35 Indian Electric Utilities and 2 International Utilities - TEPCO from Japan and ENEDIS from France. Overall event witnessed the participation of more than 450 delegates, 18 technology companies as exhibitors who showcased their solutions and emerging technologies in the Smart Grid domain and 30+ eminent experts shared their experiences.

DUM 2018 was inaugurated by Arvind Singh, Principal Secretary Energy, Govt of Maharashtra, in the presence of Praveer Sinha, CEO and MD, Tata Power Company Limited; Reji Kumar Pillai, President, ISGF; Sanjeev Kumar, MD, MSEDCL and Debasis Banerjee, MD CESC Limited.
The event included Plenaries, Presentations and Breakout Sessions. Invited International Utilities and Knowledge Partners made theme presentations during Plenaries. Case studies and project experiences were discussed in separate breakout sessions. The key themes and topics covered during DUM 2018 were: Regulatory and Enabling Environment for Smart Grids; New Technologies to Accelerate Cost Effective Grid Modernization; DER Impact on Distribution Grid; Customer: Journey from Data to Insight to Engagement; and Business Models for Evolving Opportunities.

Mr Praveer Sinha, CEO and MD, Tata Power said, “It is our pleasure to host the Distribution Utility Meet 2018. We are honoured to represent a unified voice to influence the Discom community and leverage each other’s experiences for successful nationwide smart grid roll out. Convergence of both electrical and information technology coupled with communication technology is changing the landscape of the power sector today. Technology advancement has transformed the Indian power sector so much so that individuals can now produce power locally than have large power stations to supply power to cities and villages. Therefore, it is necessary for all utilities to gear up for this transformation, to become the backbone of the power sector and provide quality services to consumers.”

**Glimpses of DUM 2018 Conference**
Glimpses of DUM 2018: Attendees

Glimpses of DUM 2018: Exhibition
The 3rd Edition of DUM will be held from 7 to 8 November 2019 in New Delhi, India

A Conference of U.S. Trade and Development Agency that will bring together U.S. and Indian power sector stakeholders for project implementation in the areas of energy storage, smart grid/grid modernization, and DERs

Presentation of PEER Certificate to TPDDL by GBCI
**NATIONAL**

**Govt Increases Outlay for First Phase of FAME India Scheme**

The Ministry of Finance has approved the enhancement in the total outlay for the first phase of the FAME India scheme, which followed the recommendation has increased it by Rs 100 crore to Rs 895 crore to promote mass adoption of electric vehicles (EVs) and accelerate the EV deployment process. The scheme will be in effect till March 2019 or till a notification for the second phase. Read More: https://bit.ly/2zrQw9d

**CGD Projects to Boost Gas Supply for Half of the Country’s Population**

Central Government has launched City Gas Distribution (CGD) projects across 129 districts to boost availability of gas supply for half of the country’s population in 26 states and Union Territories. The projects awarded under the bidding rounds so far have covered 96 cities and districts covering 4.65 million households and 3.2 million CNG vehicles. To boost the expansion of PNG and CNG network, PNGRB launched the ninth CGD bidding round in April 2018 for 86 geographical areas covering 174 districts in 22 States and Union Territories. Read More: https://bit.ly/2DZ7ik6

**Subsidised Solar Lamps for Farmers in Uttar Pradesh**

Uttar Pradesh government will give subsidy up to 70% for solar pumps for irrigation purpose to the farmers under a state government scheme. Financial assistance for DC pumps having capacity of up to 2 (horse power) is fixed at Rs 50,820 and Rs 80,996 for pumps having capacity between 2-5. In case of AC pumps, the government will give subsidy of Rs 51,840 for pumps with power of up to 2 and Rs 77,700 on pumps with power between 2-5. Read More: https://bit.ly/2RgWP Dy

**Government of India Raises Ceiling Tariffs for Renewables Project Auctions**

Government of India has increased the tariff ceilings for renewable project auctions in an attempt to elicit a better response from the renewable energy industry. Following this, Solar Energy Corporation of India (SECI), has also raised the ceiling tariff for auctions for the 10GW manufacturing linked solar scheme. The revised tariff ceiling stands at Rs. 2.85 a unit from Rs. 2.75 a unit. Due to increase in ceiling tariff, bid date for the current solar and wind projects has also been extended. Read More: https://bit.ly/2TRKSSg

**EV Charging Stations to be Rolled Out in Thane**

Thane Municipal Corporation (TMC) in Maharashtra has signed two MOUs with Mahindra & Mahindra Limited and Kinetic Greens to launch 100 EV-charging stations in the city. TMC is currently in the process of identifying amenity plots for setting up the charging stations and is considering public spaces near malls, theatres etc. The companies will be offering some beneficial buy-back schemes to garner a positive and larger response from citizens. To make the initiative more lucrative for residents, the TMC will bear 75% of the electricity cost for the first year, 50% in the second and 25% in the third year. Read More: https://bit.ly/2zrQw9d

**Maharashtra to give Solar Agricultural Pumps at Subsidised Rates**

The Maharashtra government plans to give 5 horsepower solar agricultural pumps worth Rs 3.5 lakh at a subsidised rate of Rs 20,000 and 3HP pumps costing Rs 1.5 lakh at Rs 15,000 to farmers. The state government had set a target of distributing one lakh solar pumps of which 10,000 had already been given out and another 25,000 solar pumps will be provided to farmers in the next three months. Read More: https://bit.ly/2zpvKY4

**Power Tariff to Remain Same in Andhra Pradesh**

Power distribution companies in Andhra Pradesh has mentioned that there will be no increase in electricity tariff for the next financial year 2019-20 and the state government will bear the additional financial burden in the form of subsidy to these power distribution companies. Farmers will get seven hours of free power supply every day and there will also be free power supply to dhobi ghats and nursery farmers along with a reduced tariff for electric vehicle charging stations. Read More: https://bit.ly/2DYFTib

**International**

**Nigeria Commits to Vision 30:30:30 Goals**

The Nigerian government aims to produce 30% of its energy from renewable sources by 2030 to diversify its energy mix. This was part of Vision 30:30:30 which is to have, by 2030, an installed capacity of 30 GW, of which 30% renewable. The country currently has 85% of its power coming from thermal power plants operating mainly on gas and 15% from hydropower. As part of this plan the government signed power purchase agreements with 14 independent power producers who will build about 1,000 MW of solar power plants. Read More: https://bit.ly/2P0gXaZ

**European Commission Approves €200 Million in Public Support for Renewable Energy**

The European Commission has approved under EU State aid rules a measure to support electricity production from renewable sources for self-consumption in France until 2020. The measure is designed to encourage the production of renewable electricity by companies and individuals for their own use (self-consumption), specifically for instances where only a limited part of the electricity they produce is sold to the grid. The support is available for small installations with a capacity between 100 and 500 kilowatts. The beneficiaries will be selected through tenders organised until 2020 and in which all renewable energy technologies can participate. Read More: https://bit.ly/2Sc5XiV

**State Wide Initiatives to Spur Widespread Adoption of Electric Vehicles in New York**

New York State has announced a series of broad-scale initiatives to encourage the purchase and increase the convenience and accessibility of electric vehicles. The expansion of public fast charger networks across the state, approved regulatory actions to lower residential charging rates, and more than 11,000 rebates issued to consumers for purchasing electric vehicles is helping to increase New Yorkers’ purchasing options and charging accessibility for environmentally-friendly, plug-in hybrid and fully electric vehicles. Read More: https://bit.ly/2OrRbxT
GRID MODERNIZATION AND SMART METERING

Satellite-based Smart Meter Project Completed by Asian Development Bank in a Village in Varanasi

5,000 households received the satellite-based smart meters in a village in Varanasi (India) under the pilot project completed by Asian Development Bank (ADB). This project is a part of ADB’s $200 million loan to Energy Efficiency Service Limited (EESL) for implementation of various demand side energy efficiency projects in India. EESL’s smart metering initiative is a part of the Indian government’s larger low-carbon energy transition program. Source: https://bit.ly/2DhHNaS

Comsel Installs Telit Kit on Sweden’s Network for Smart Metering

Comsel System Ltd successfully launches Telit ME910C1-E1-based narrowband IoT (NB-IoT) module for smart metering applications. It is among Europe’s first commercial smart metering deployment on a narrowband IoT (NB-IoT) network in Sweden. It’s a narrowband IoT (NB-IoT) module for smart metering applications. It is among Europe’s first commercial smart metering deployment on a live LTE NB-IoT network with advance features including decades-plus battery life and reliable connectivity deep inside buildings and underground. Source: https://bit.ly/2Prz0Fx

Michigan Utilities have a $7B Grid Modernization Plan

Two largest utilities of Michigan (Consumers Energy Company & DTE Electric Company) plan to improve electric reliability with more distributed generation along with electric vehicles for next 5 years with total investment of $7.2 billion. The Michigan Public Service Commission required five-year grid modernization plans from Consumers and DTE based on the companies’ anticipated spending on increasingly out-of-date distribution assets. While upgrading equipment and tree-trimming are among the utilities’ top priorities, regulators also want to see a roadmap that accounts for more advanced grid interaction. Source: https://bit.ly/2Poy8s1

India’s Solar Capacity Addition in FY19 could be down 55%: Bridge to India

India’s solar capacity addition in the current financial year is expected to be 55% short of the previous year, at 4.1 GW as the industry continues to face policy and execution challenges, according to renewable energy consultancy firm Bridge to India. The rooftop solar market, however, is registering a robust growth of 70% annually, after having seen a slow start in pursuance of the government’s target of adding 40 GW of solar capacity through rooftop projects. India plans to add 100 GW solar capacity by 2022. Source: https://bit.ly/2Povy8s1

IRENA Council Discusses Agency’s Contribution to Advancing Global Energy Transformation

Plummeting renewable energy costs, advances in technology, pressing demands for climate action, and a strong resolve by governments to provide universal access to sustainable energy have put renewable energy into the global spotlight as the most cost-effective pathway to reduce carbon emissions, power growing economies, create jobs, improve health, and raise standards of living. In addition to administrative and institutional matters, the Council will discuss programmatic activities including off-grid renewable energy solutions, corporate sourcing of renewables, IRENA’s Clean Energy Corridors initiatives and emerging solutions for power sector transformation. Source: https://globalrenewablenews.com/article/energy/category/general/91/731965/irena-council-discusses-agency-s-contribution-to-advancing-global-energy-transformation.html

E.ON to Build One of Europe’s Largest Onshore Wind Farms in Sweden

E.ON will build one of the largest onshore wind farms in Europe. The company announced on 16th November that it has decided to invest in the 475-mw Nysäter project in Sweden. The wind farm will be built jointly with the Swiss investment manager Credit Suisse Energy Infrastructure Partners (CSEIP), an experienced financial investor, solely dedicated to the energy sector. This year, E.ON is bringing wind projects in the Baltic Sea, the North Sea, Italy, and the United States to the grid with a total capacity of around 1,000 mw, equivalent to the installed capacity of a nuclear power plant. Source: https://globalrenewablenews.com/article/energy/category/wind/141/733263/e-on-to-build-one-of-europe-s-largest-onshore-wind-farms-in-sweden.html

California ‘Smart Home Study’ Underway

The California Energy Commission (CEC) is funding a study that it hopes will result in lower utility bills for customers and more control over electricity load for utilities. The project will involve 100 homeowners in Southern California who will install various types of distributed energy resources (DER) such as thermostats, load control switches, batteries, water heaters and eventually electric vehicle chargers. As the electricity grid changes, an increasing number of customers are installing DER, which can include batteries, electric vehicles and solar panels. These resources give customers more control over their energy usage, but also impact the utility grid. To help customers utilize and better understand their energy control potential, the Smart Home Study aims to minimize the negative aspects of DER for utilities while still realizing the benefits of these transformative technologies. Source: https://www.renewableenergyworld.com/articles/2018/11/california-smart-home-study-underway.html

Schneider Electric Goes Big by Going Local in the Microgrid Market

Advanced microgrids were still something of a bet four years ago when Schneider Electric and partners rolled out the Oncor microgrid in Texas, an early demonstration project. Tiptoeing into microgrids then, the energy management and automation giant now is in full stride, made clear this week at its Innovation Summit North America in Atlanta, Georgia. Top company brass have their eyes on the microgrid market. Chairman and CEO Jean-Pascal Tricoire featured some of the company’s advanced microgrids as he highlighted various Schneider success stories during his opening remarks.
Tricore described microgrids at the Marine Corps Air Station (MCAS) Miramar in San Diego, California and in Montgomery County, Maryland, two large and sophisticated projects. Source: https://microgridknowledge.com/schneider-electric-microgrids/

**Cloud Computing Meets Microgrids in New Palo Alto Project**

Cloud computing giant VMware is joining forces with one of the world’s tech capitals, Palo Alto, California, to explore the potential of community microgrid projects.

VMware also plans to bring its software know-how to the microgrid controller — the brain of a microgrid that distinguishes it from simpler distributed energy technologies. VMware will work with academic researchers to advance microgrid controllers and software and their ability to integrate the microgrid into the central grid. Source: https://microgridknowledge.com/community-microgrid-vmware-palo-alto/

**EV AND ENERGY STORAGE**

**Ministry of Power to Launch New Electric Vehicle (EV) Charging Infrastructure Policy**

The Ministry of Power, India will launch a new Electric Vehicle Charging Infrastructure Policy allowing individuals to open public electric vehicle charging stations for commercial use without applying for licences, provided that the stations meet the applicable standards. A cap will be applied on the tariff that the station owners can charge from EV owners. Source: https://bit.ly/2zaOx9k

**Australia Pilots Using Renewables to Produce Hydrogen for Energy Storage**

Australia will trial pilots using solar and wind power to produce hydrogen via electrolysis, with the hydrogen then being used for long-term energy storage in the Sydney gas network. The Australian Renewable Energy Agency (ARENA) has committed AU$7.5 million (US$5.3 million) in funding for Australian energy firm Jemena to build a demonstration scale 500kW electrolyser, known as Project H2GO, at its facility in western Sydney. The two-year trial project will connect to Jemena’s existing gas network, which delivers gas to 1.3 million customers in New South Wales. In a release, ARENA noted that hydrogen can be safely added to the natural gas mains at concentrations of up to 10% without affecting pipelines, appliances or regulations. Source: https://bit.ly/2Ram3mv

**E-vehicle Charging Stations to come up on Bengaluru-Mysuru Highway**

The state energy department is likely to set up EV charging stations every 25km on the Bengaluru-Mysuru highway. The department has proposed to set up 107 charging stations, including 83 in Bengaluru and 24 on highways and the locations will be identified with the help of NHAI. Facilities like rest rooms, cafeterias, etc. will also be provided for motorists. Read More: https://bit.ly/2DM0KVb

**SMART CITIES**

**Huawei Launches “Artificial Intelligence Operating System” for Smart Cities**

Artificial Intelligence Operating System is a platform to represent a shift from traditional information system and lay a solid foundation for smart city development. Huawei has unveiled a digital Artificial Intelligence Operating System platform for Smart Cities at the Smart City Expo World Congress (SCEWC) in Barcelona, Spain. Based on new Information and Communication technology (ICT) including Artificial Intelligence (AI), Internet of Things (IoT), big data and cloud, Huawei and its global partners have been demonstrating solutions on this platform. These covered the municipal management, public safety and environmental protection, as well as smart transportation, smart government, smart education, and smart agriculture. Smart city adoption has undergone the first stage of breaking down data silos, the second stage of the rise of mobile internet applications, and the third stage of IoT deployment for collection of mass volumes of city data. It is now at the fourth stage, reports Huawei, where cities are improving their management capabilities through AI-enabled data mining, achieving the integration of digital technologies and city governance to promote sustainable city development. In the future, Huawei’s Artificial Intelligence digital platform will form the smart foundation of more and more cities, promoting sustainable city development worldwide. Source: https://bit.ly/2TrwDYp

**Pune Smart City Plans to Implement Smart Parking Project in Aundh-Baner-Balewadi (ABB) Area on Pilot Basis**

With exponential rise in the number of private vehicles on city roads causing traffic congestions, parking and pollution issues, the Pune Smart City Development Corporation Ltd (PSCDCL) has decided to implement a smart parking project in the Aundh-Baner-Balewadi (ABB) area on a pilot basis. The number of private vehicles has been increasing exponentially in the city. Finding space for parking has become a major challenge for the city, PSCDCL has invited applications from agencies for an efficient and cost-effective smart parking solution for the ABB area in Pune. A pilot initiative is proposed to be launched in the ABB area identified for area-based development under the Pune Smart City Plan. Based on the success of the project, it will be implemented across the city. The PSCDCL will operate as the nodal agency for the pilot project. Source: https://bit.ly/2OUfz2f

**CYBER SECURITY**

**Singapore to Collaborate with Canada, US on Cybersecurity**

The Cyber Security Agency of Singapore (CSA) signed a two-year Memorandum of Understanding (MOU) with Canada’s Department of Foreign Affairs, Trade, and Development. This MOU would include collaboration in various areas such as information exchange on cyber threats and cyberattacks and best practices on human resource development. It includes the provision of technical and certification services, development of cybersecurity standards, and regional cybersecurity capacity building.

Separate to this, the cybersecurity agency also inked a Declaration of Intent (DOI) to collaborate with the US government to develop a technical assistance programme for ASEAN member states. This partnership would include elements of Singapore’s Asean Cyber Capacity Programme (ACCP) and the US’ Digital Connectivity and Cybersecurity Partnership initiative, according to CSA. Source: https://www.zdnet.com/article/singapore-to-collaborate-with-canada-us-on-cybersecurity/

**Pentagon Researchers Test ‘Worst-Case Scenario’ Attack on U.S. Power Grid**

From November 1 to November 7, The Defense Advanced Research Projects Agency (DARPA) perform an exercise, which was fictional, but it was designed to mimic all the hurdles and uncertainty of a real-world cyberattack that took out power across the nation for weeks on end—a scenario known as a “black start.”
The exercise took place on Plum Island, where DARPA researchers were able to segregate a portion of the island on its own electric grid. During seven-day exercise, more than 100 people gathered on the island, filling every necessary role to mimic an actual blackout. At the centre of the exercise was a team of grid operators from electric utilities across the nation, which was in charge of restoring and sustaining power.

The scenarios were to create initial power transmissions at both utilities using a diesel generator, then building cyber-secure “crank paths” through a series of electric substations that would increase the transmissions’ voltage until they were capable of powering the two utilities and delivering redundant power to the exercise’s critical asset. Source: https://www.nextgov.com/cybersecurity/2018/11/pentagon-researchers-test-worst-case-scenario-attack-us-power-grid/152693/

Solar Equipment Vulnerable to Cyberattack, Power Outage

As per news published on Nov. 1, 2018 on Bloomberg Environment, biggest potential problem for Solar electricity system is that a cyber hacker could access thousands of solar electricity system inverters and shut down the electricity provided to the grid. However, while inverters are increasingly connected to the internet, most solar inverters in the field today can’t be cyber attacked because they only have one-way communications and don’t have the ability to receive commands. But with two-way communication, there can be a Cyber-attack which need to be taken care. Source: https://news.bloombergenvironment.com/environment-and-energy/solar-equipment-vulnerable-to-cyberattack-power-outage-report-1

DISRUPTIVE TECHNOLOGIES

Toyota is Using Artificial Intelligence, Big Data & Robots in Innovative Ways

Toyota, has recently invested to remain relevant and competitive in the 4th industrial revolution as a result of its investments and innovation in artificial intelligence, big data and robots. With initial funding of $100 million, Toyota AI Ventures invests in tech startups and entrepreneurs around the world that are committed to autonomous mobility, data and robotics. One of the organization’s investments is in May Mobility, a company that is developing self-driving shuttles for college campuses and other areas such as central business districts where low-speed applications are warranted. Source: http://www.indiasmartgrid.org/viewnews.php?id=4899

Mining Bitcoin is as Energy Intensive as Mining Gold

It takes between seven and 14 Megajoules (MJ) of energy to create a US dollar’s worth of cryptocurrency, more than the energy required to physically mine for a dollar’s worth of copper or gold, say Max Krause and Thabet Tolaymat, from America’s Oak Ridge Institute for Science and Education, in a paper published in the journal Nature Sustainability. The energy cost is roughly equivalent to that of mining platinum or rare earth oxides and poses significant environmental issues. “Bitcoin, like a mineral in the Earth’s crust, is finite and extractable and, like conventional mining, cryptomining can be energy intensive,” they explain. Source: http://www.indiasmartgrid.org/viewnews.php?id=4879

Blockchain Smart City to be Built in Nevada

Blockchains LLC, an innovative and ambitious blockchain company, has announced plans to build an entire smart city utopia in the middle of the Nevada desert. The city will be the first smart city built from scratch with blockchain technology at its core. This visionary idea was announced by Blockchains LLC Jeffrey Berns at DevCon 4. The Blockchain Smart City will be fully functional, with the inclusions of homes, apartments, markets, schools, a college campus, an esports gaming arena, and even a bank. Smart city will incorporate 3 other key technologies: artificial intelligence (AI), nano technology, and 3D printing. He also pointed out that the city will become an incubator for the research of sustainable energy, clean water, and more. Source: http://www.indiasmartgrid.org/viewnews.php?id=4872

Join the Indian Delegation to DistribuTECH 2019 from Feb 05 – 07 2019 in New Orleans, USA

ISGF with support from US Department of Commerce (USDOC) of the American Embassy, New Delhi is taking an official delegation from India to the DTECH 2019 which will be held from Feb 05 – 07 2019 in New Orleans, Louisiana, USA. DistribuTECH (DTECH) is the premier North American trade show for equipment vendors and service providers from across the transmission, distribution, and smart grid technology industries, attracting around 12,000 attendees and around 500 exhibitors from around 70 countries. The event also attracts attendees from electric utilities, water utilities, gas utilities, federal power agencies, energy service companies, energy service providers, energy end users (retailers, hospitals, data centers, etc.) and a wide-range of manufacturers and vendors. Visit the event’s website for additional information: http://www.distributech.com.

As part of the Indian Delegation, the delegates will be entitled to the following benefits:

- Complimentary Pre-Registration for the show (value of the exhibit hall access is $125)
- Discounted Registration for full conference
- Pre-arranged and facilitated briefings, meetings (including Meet and Greet meetings) with U.S. Exhibitors and U.S. industry associations, customized according to the delegates interests.
- List of exhibitors who export or indicate an interest in exporting to the group’s country and/or region of the world
- Optional site visits to smart grid project sites and technology companies.
- Please note that the site visit will be organized subject to response received from the delegation.

To join the delegation or for more information, please contact: Ms. Reena Suri (reena.suri@indiasmartgrid.org)
### Smart Grid Updates: Pilot Projects in India

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Project Name and Location</th>
<th>Name of Consultant</th>
<th>Key Functionalities</th>
<th>Key Vendors</th>
<th>Customers (Nos.)</th>
<th>Project Completion Date</th>
<th>Latest Progress</th>
</tr>
</thead>
</table>
| 1       | APDCL (Paltan Bazaar, Narengi, Ulubari - Assam) | Medhaj Techno Concept Pvt Ltd | AMI-R, AMI-I, PLM, OMS, PQM, DG | M/s Fluentgrid Ltd M/s Sinhal Udyog | 15083 (15938)* | 2018 | • 13895 smart meters has been installed  
• Installation of Control Centre hardware equipment is under progress  
• A total of 200 DCUs installed, out of that 183 are communicating  
• 9069 meters communicating to Control Center  
• FAT for software modules has been completed  
• Integration of Smart Grid system with R-APDRP SAP-MBC system started and expected to complete by 31st Dec 2018. |
| 2       | PSPCL (SAS Nagar, Punjab) | POWERGRID | AMI-R, AMI-I, PLM | 2,734 | |  | • MDM development is in progress by M/s Analogics Tech.  
• Bids are under evaluation for Smart Meter Tender |
| 3       | TSSPDCL (Jeedimetla Industrial Area, Telangana) | CPRI | AMI-R, AMI-I, PLM, OMS, PQ | M/s. ECIL | 11,904 | 2018 | • 5000 number Single Phase Smart Meters are installed at Jeedimetla area.  
• 2000 Smart meters communication with Data Acquisition System is under progress.  
• Erection of 60 RMUs out of 62 have been completed  
• Erection of 59 autoreclosers out of 77 have been completed  
• Erection of 20 sectionalizers out of 89 have been completed  
• Commissioning of SGCC (Smart Grid Control Centre) is under progress  
• 20KVA UPS Commissioned at SGCC |
| 4       | TSECL (Agartala - Tripura) | POWERGRID | AMI-R, AMI-I, PLM | M/s Wipro M/s JnJ Powercorn | 42,676 | 2018 | • Total 30839 meters are installed and communicating with server  
• 248 DCUs have been installed and commissioned successfully  
• Rooftop Solar net metering & billing is being integrated with AMI system  
• Billing of 6,700 consumers done with smart meter data  
• Control centre hardware and software installed  
• Acceptance testing of applications completed  
• Expected date of completion is September 2019 |
| 5       | WBSEDCL (Siliguri, Darjeeling, West Bengal) | POWERGRID | AMI-R, AMI-I, PLM | M/s Chemtrols M/s CMS Computers Limited | 5,275 | Yet to be decided | • 5112 smart meters installed out of which 2337 are communicating  
• 75 DCU installed at site out of 100 DCU and as of now 50 DCU are communicating  
• Material & hardware for Control centre setup has been received and installed except Printer and 55 inch LED Display  
• Design document for integration with SAP (billing and collection) system has been finalised and work is in progress |
| 6       | PED (Puducherry) | POWERGRID | AMI-R, AMI-I | M/s Dongfang | 34,000 | 2018 | • 24,464 smart meters has been installed.  
• 5500 meters communicating with Control Centre.  
• 204 DCU installed.  
• Control centre installation completed and operational |
| 7       | UGVCL (Sabarmati, Gujarat) | POWERGRID | AMI-R, AMI-I, OMS, PLM, PQ | M/s Genus Power M/s Cyan Connode M/s Fluentgrid Ltd | 39,422 | June 2018 | • 20474 nos 1 phase & 2032 nos 3 phase smart meters and 16 nos 3 phase CT smart meters installed at Naroda site. 23000 meters are communicating.  
• 149 RF Gateways(DCU) are installed.  
• Control Centre Hardware installation, configuration has been completed  
• Application customisation is under progress: the billing data, load survey data, notification & alerts requirement, remote connect-disconnect facilities are tested / verified.  
• UAT (User acceptance test) is under progress.  
• The web portal and mobile app development is under progress. |

*Latest number of customers

**Smart Grid Projects Completed in India**

8. UHBVN (Panipat - Haryana)
9. HPSEB (Kala Amb Industrial Area - Himachal Pradesh)
10. CESC (Mysore - Karnataka)
11. IIT Kanpur - Smart City Pilot (Kanpur, Uttar Pradesh)

**Smart Grid Projects under NSGM in India**

12. CED (Chandigarh)
   - POWERGRID
   - AMI, DT monitoring, Substation Automation, Rooftop Solar PV, IT infrastructure
   - N.A.
   - 29,433
   - Yet to be decided
   - • REC Power Distribution Company Limited (RECPDCL) appointed as Project Management Agency on 30 Aug 2016
   - • Approval of Tender award is in Process.

13. Amravati, MSEDCL, Maharashtra
   - No consultant
   - AMI, OMS, DR
   - N.A.
   - 1,48,495
   - Yet to be decided
   - • Bids are opened on 3rd May 2018.
   - • Bids has been cancelled and likely to re-bid.

14. Congress Nagar, MSEDCL, Maharashtra
   - No consultant
   - AMI, OMS, DR, SCADA
   - N.A.
   - 1,25,000
   - Yet to be decided
   - • Bids are opened on 3rd May 2018.
   - • Bids has been cancelled and likely to re-bid.

**New Tenders for Smart Metering in India**

**Ongoing Tenders**

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Utility</th>
<th>Tender Details</th>
<th>Submission Dates</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Kerala State Electricity Board (KSEB)</td>
<td>Appointment as Implementing Agency for Implementation of AMI/Smart Metering systems covering 3,21,800 nodes under IPDS in 63 towns of Kerala state</td>
<td>18th December 2018</td>
<td><a href="https://bit.ly/2BA2r6F">bit.ly/2BA2r6F</a></td>
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**Expected Tenders**

<table>
<thead>
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<th>Sl. No.</th>
<th>Utility</th>
<th>Tender Details</th>
<th>Submission Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>BESCOM</td>
<td>Supply of 1-phase whole current smart meter, 3-phase whole current smart meter and CT operated 3-phase smart meter as a part of Advance Metering Infrastructure along with the communication network for HSR Layout area</td>
<td>Expected</td>
</tr>
<tr>
<td>2</td>
<td>MPPKVVCL</td>
<td>Smart Meter for 1300 households in Parmanu Nagar Indore</td>
<td>Expected</td>
</tr>
<tr>
<td>3</td>
<td>TANGEDCO</td>
<td>Advance Metering Infrastructure along with the communication network for the Theyagaraya area</td>
<td>Expected</td>
</tr>
<tr>
<td>4</td>
<td>HESCOM</td>
<td>Supply of 1-phase whole current smart meter, 3-phase whole current smart meter and CT operated 3-phase smart meter as a part of Advance Metering Infrastructure along with the communication network</td>
<td>Expected</td>
</tr>
</tbody>
</table>
Smart Grid Events

INDIAN


March 12 - 16 2018: India Smart Utility Week 2019, New Delhi, http://www.isuw.in/


INTERNATIONAL


May 06 - 08 2019: Utility Analytics Summit, NC https://utilityanalyticsccsummit.com/


May 27 2019: The Clean Energy Ministerial (CEM), Canada http://www.cleanenergyministerial.org/


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India SMART UTILITY Week 2019

International Conference & Exhibition on Smart Utilities for Smart Cities

March 12 - 16, 2019
Manekshaw Center, New Delhi, India

Please visit www.isuw.in and @isuw2019

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ISGF is organising Innovation Awards as part of India Smart Utility Week (ISUW 2019) to foster and recognize break through innovations in Smart Grid and Smart Utility Domains.

**Nomination Categories**

1. Best Smart Grid Project in India by Utility
2. Best Smart Grid Project in India by Industry
3. Innovative EV of the Year
4. Smart Technology of the Year
5. Best Project for Household Electrification
6. Smart Startup of the Year
7. Smart Incubator of the Year
8. Most Progressive Gas Utility in India
9. Most Progressive Water Utility in India
10. ISGF President’s Award for the best contribution towards growth of Smart Grids in India

**Send Your Nomination**

Last date to submit your nominations for ISGF Innovation Awards 2019

25 December 2018

Visit www.isuw.in

Download and print Nomination Form

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15 MARCH 2019
NEW DELHI