India CGD Forum Website Launch and Webinar on “Collaboration between City Gas Distribution and Electricity Distribution Companies to Accelerate Transition to Gas Based Economy” organized by ISGF and NGS on 15th July 2021

A webinar on “Collaboration between City Gas Distribution and Electricity Distribution Companies to Accelerate Transition to Gas based Economy” was organized on 15th July, 2021 from 15:00 hrs to 17:00hrs (IST) with 548 registered participants. The Welcome Address was delivered by Reji Kumar Pillai, President, ISGF and Chairman – GSEF; Special Address on Government’s Mission to make India as a Gas Based Economy by 2025 delivered by ES Ranganathan, Director (Marketing), GAIL. Inaugural Address delivered by Shri Tarun Kapoor, Secretary, Ministry of Petroleum and Natural Gas, Govt of India who launched the India CGD Forum website – www.indiacgd.in. Other eminent speakers at the Webinar were: Anjuli Chandra, Member, Punjab Electricity Regulatory Commission; Rajiv Sikka, CEO, Indian Oil-Adani Gas Pvt. Ltd; Sanjay Banga, President T & D, Tata Power Company Limited; Anil Rawal, MD and CEO, IntelliSmart; Sanjay Shende, Dy. Managing Director, Mahanagar Gas Limited; Deepti V Dutt, Head-Strategic Initiatives, Public Sector, AWS India; Sujit Ruikar, GM – Marketing, Maharashtra Natural Gas Ltd; Reena Suri, Executive Director, ISGF; DV Shastry, Executive Director, NGS; and Sainath Bandhakavi, AWS India.

Shri Tarun Kapoor, Secretary, Ministry of Petroleum and Natural Gas is the honorary chairman of India CGD Forum. The website of India CGD Forum is: https://www.indiacgd.in/
Following are the key takeaways of the webinar:

“Utility integration among the Electricity and Gas is a very innovative approach which will service the consumers across the country. Some pilots can be done in the beginning for the proper understanding of technology implied and then it can be scaled up.”

Anjali Chandra
Member, Punjab Electricity Regulatory Commission

“A well framed cooperation philosophy among gas and power utilities will give leverage to CGD companies to scale up their business quickly. The customer privacy should be ensured across the utilities.”

Rajiv Sikka,
Chief Executive Officer, Indian Oil- Adani Gas Limited

“Integrating utilities bill will discourage consumer defaults and digitalized billing will enhance consumer experience. A common communication system across the utilities will reduce the service cost.”

Sanjay Shende
Dy. Managing Director, Mahanagar Gas Limited

“Common metering standards will facilitate quicker integration of utilities. A unique customer care no for all the utilities will provide a better customer experience.”

ES Ranganathan
Director (Marketing), GAIL

“A good collaboration between electricity distribution company and CGD company will facilitate better utilization of assets to integrate the common services of Electricity and Gas Utilities for better customer experience”

Tarun Kapoor
Secretary Ministry of Petroleum and Natural Gas

“Tata Power collaborated with IGL in Delhi to share their operation in two divisions for Gas distribution. Seventy thousand new consumer’s information was shared with IGL, which improved IGL’s market share; Tata Power started joint meter reading with IGL and is planning to scale up the operation sharing at Orissa also”

Sanjay Banga
President, Tata Power Company Ltd

“One bill for water, electricity, gas and internet will reduce consumer’s discomfort. Common backend for all the services will enable collaboration among different utilities and will create better value for customers and reduce cost of doing business for utilities.”

Anil Rawal
MD and CEO, Intellismart

“GIS integration and data sharing has been a challenge which can be addressed by creating a common data sharing platform. Collaboration with respective electricity distribution company can give a jump start to CGD companies for their operational efficiency.”

Sujit Ruikar
General Manager, Maharashtra Natural Gas Limited

(For suggestions and feedback on the ISGF SMART GRID Bulletin, please write to contactus@indiasmartgrid.org)
**Appointments and Transfers**

- Shabihul Hasnain has been appointed as Chairperson of Delhi Electricity Regulatory Commission.
- Hemant Verma has been appointed as Chairperson of Chhattisgarh State Electricity Regulatory Commission.
- Pramod Kumar Gupta has been appointed as Member of Chhattisgarh State Electricity Regulatory Commission.
- Yashwant Singh Chogal has been appointed as Member of Himachal Pradesh State Electricity Regulatory Commission.

**Smart Grid Updates: Policy, Regulations & Standards**

**INDIA**

**Government of Maharashtra Rolls Out Draft EV Policy 2021**

The government of Maharashtra announced its draft Electric Vehicle (EV) Policy 2021, which aims to support the adoption of sustainable and clean mobility solutions in Maharashtra. The target is to make EVs contribute up to 10% of new vehicle registrations, converting at least 25% of the urban fleet to EVs along with 15% of Maharashtra State Road Corporation’s existing bus fleet to be changed to electric by 2025. Charging infrastructure is to be constructed in the five targeted urban agglomerations (Greater Mumbai, Pune, Nagpur, Nashik, and Aurangabad). Four highways are also planned to be fully EV-ready by 2025 (Mumbai-Nagpur, Mumbai-Pune, Mumbai-Nashik, Nashik-Pune). New government vehicles operating within the major cities will be electric as of April 2022. The State also aims to attract at least one Gigafactory for the manufacturing of Advance Chemistry Cells under the production-linked incentive (PLI) Scheme by 2023. The State government has pledged INR 930 crores towards this policy and announced EVs will be exempt from road tax and registration charges.

Read more: [https://www.indiasmartgrid.org/viewnews.php?id=5276](https://www.indiasmartgrid.org/viewnews.php?id=5276)

**Goa Electric Mobility Promotion Policy 2021**

The Goa government has issued a draft “Goa Electric Mobility Promotion Policy, 2021”. The policy offered demand generation incentives to E2W based on battery capacity (kWh) used in vehicles. The incentives are only available for E2W with advanced batteries and subject to a maximum incentive of INR 30,000/vehicle. According to the notifications and provisions in the FAME-II policy, the policy would also apply to battery electric vehicles (BEV), hybrid vehicles, and plug-in hybrid electric vehicles (PHEV). The state government has set a goal of introducing 500 completely electric buses by 2025.

Read more: [https://www.indiasmartgrid.org/viewnews.php?id=5278](https://www.indiasmartgrid.org/viewnews.php?id=5278)

**Government of Rajasthan Releases EV Policy 2021**

The government of Rajasthan has released the Rajasthan Electric Vehicle Policy 2021. The state has now unveiled its own initiative to boost the adoption of electric vehicles and focused on ramping up sales of electric two-wheelers (E2W) and electric three-wheelers (E3W) in the state. It was announced that the state will subsidize the upfront cost of electric vehicles for early adopters, by offering to reimburse the state goods and service tax (SGST) as well as extending a one-time incentive. The big impact of the Rajasthan EV policy 2021 will be seen in the prices of electric two-wheelers. All electric scooters and motorcycles sold and registered in the state between April 2021 to March 2022, will be eligible for SGST reimbursement.

Read more: [https://www.indiasmartgrid.org/viewnews.php?id=5277](https://www.indiasmartgrid.org/viewnews.php?id=5277)

**Farmers in Uttar Pradesh to Benefit From ‘Kusum’ Scheme**

Uttar Pradesh is set to become a hub of solar energy production in India with its farmers to benefit from the Kusum scheme. The scheme falls under the Component-C of Kusum Yojana, which proposes to increase the income of farmers by energizing their private grid-connected tube wells with solar power. Farmers will be able to use it for irrigation and sell the surplus electricity after irrigation to the state DISCOM. Uttar Pradesh Power Corporation Limited is implementing this scheme and the target is to energize as many as 30,000 private tube wells through solar energy.

Read more: [https://www.indiasmartgrid.org/viewnews.php?id=5279](https://www.indiasmartgrid.org/viewnews.php?id=5279)
Electricity (Rights of Consumers) Amendment Rules, 2021

The Ministry of Power (MoP) has issued an amendment to the Electricity (Rights of Consumers) 2020 Rules concerning net metering for rooftop solar installations. The latest amendment considers net metering to the prosumer for loads up to 500 kW or up to the sanctioned load, whichever is lower. Furthermore, in either case of net-metering or gross metering, DISCOM may install a solar energy meter to measure the gross solar energy generated from the grid-interactive rooftop solar system for renewable energy purchase obligation (RPO) credit. In case of prosumers availing net-metering or net feed-in, the commission may introduce the time of the day tariffs by which the prosumers are incentivized to install energy storage for utilization of solar energy stored. The state commission may permit gross-metering for prosumers who would like to sell all the generated solar energy to the distribution licensee instead of availing the net-metering, net-billing, or net-feed-in facility.

Read more: https://www.indiasmartgrid.org/viewnews.php?id=5281

Uttar Pradesh Clears New Solar Energy Policy

The Uttar Pradesh government has approved a proposal to build 24 new solar power plants at a cost of INR 7,500 crore by 2022 to create 1,535 MW of solar energy under the new solar energy policy. The 24 new plants have raised solar power production in the state to 1,140 MW. In addition, the state government has established a rural electrification network and solar streetlights have been put in rural markets and roadways. Solar rooftops with a capacity of 225 MW have been constructed in the state.

Read more: https://www.indiasmartgrid.org/viewnews.php?id=5282

Green Tariff Policy May Help Supply Cheaper Renewable Power

Government of India is working on a ‘Green Tariff Policy’ with the objective of reinforcing India’s green energy credentials. Consumers in the commercial and industrial sectors can become green in a variety of ways, including putting up large-scale solar projects using open access models, installing rooftop solar systems, or purchasing renewable energy certificates. Green Tariff is the weighted average green energy tariff that consumers will be required to pay. The price will be slightly lower than tariff from conventional fuel sources.

Read more: https://www.indiasmartgrid.org/viewnews.php?id=5284

Rajasthan Government Looks to Make State Leader in Renewable Energy

The Rajasthan government is looking to make the state a leader in the renewable energy sector. Rajasthan Renewable Energy Corporation focusses to accelerate the projects related to the development of renewable energy, the state government has implemented the Rajasthan Solar Energy Policy-2019 and Solar-Wind Hybrid Energy Policy-2019 and moreover by 2024-25, the corporation shall aim to meet the state’s target of 30,000 MW of solar power and 7,500 MW of wind and hybrid energy generation.

Read more: https://www.indiasmartgrid.org/viewnews.php?id=5285

INTERNATIONAL

European Commission Proposes New Energy Efficiency Directive

The European Commission approved a package of proposals aimed at decreasing net greenhouse gas emissions by at least 55% by 2030, compared to 1990 levels and the ultimate objective of becoming climate neutral by 2050, by amending the EU’s climate, energy, land use, transportation, and taxation policies. These emissions reductions must be achieved in the next decade if Europe is to become the world’s first climate-neutral continent by 2050 and the European Green Deal to become a reality.

Read more: https://www.indiasmartgrid.org/viewnews.php?id=5287

FERC Begins Reform Process to Build the Transmission System of the Future

The Federal Energy Regulatory Commission launched a proceeding in July 2021 to reform the federal transmission policy. It approved an advanced notice of proposed rulemaking inviting the public to comment on potential reforms to improve transmission planning and cost allocation and generator interconnection processes. It seeks comment on a more forward-looking approach to how to build and allocate the cost of transmission infrastructure in the US. It aims to seek public comment on potential reforms in specific areas like reforms for longer-term regional transmission planning and cost-allocation processes that consider anticipated future generation, rethinking cost responsibility for regional transmission facilities and interconnection-related network upgrades, and enhanced transmission oversight over how new transmission facilities are identified and paid for.

Read more: https://www.indiasmartgrid.org/viewnews.php?id=5288
California Approves Accelerated Growth for Near-Term EV Investments

The California Public Utilities Commission (CPUC) approved a resolution in July 2021 that gives utilities an accelerated approach to propose near-term transportation electrification investment plans, despite some concerns about the impacts on state ratepayers. The CPUC announced that the decision will allow utilities to propose investments more quickly until the commission finalizes a broader transportation electrification framework that has been in the works for a couple of years. The decision will also allow utilities a quicker clearance procedure for projects boosting resilience, servicing customers without access to home charging, investing in medium and heavy-duty vehicles, new building constructions, and upgrading chargers and panels for low-income customers. Utilities can receive clearance for projects up to $20 million in each category, with a total cap of $80 million per utility.

Read more: https://www.indiasmartgrid.org/viewnews.php?id=5289

Japan ups 2030 Renewables Goal in Draft Energy Policy

Japan aims to hike its 2030 renewable energy target as part of efforts to slash emissions, the draft energy policy calls for renewable energy sources such as solar and wind to account for 36-38% of total power supply by fiscal 2030, up from the present aim of 22-24%. The new objective, would make renewables most of the country’s energy mix. Nuclear energy’s share in the total energy mix remained steady at 20-22% in the draft policy.

Read more: https://www.indiasmartgrid.org/viewnews.php?id=5290

EPRA, Kenya Develops Mini-Grid Regulations to Scale Up Nationwide Access to Electricity

The Energy and Regulatory Petroleum Authority (EPRA) released the Energy Regulations 2021 in July 2021 and is seeking industry consensus on the proposed regulations. It stated that the regulation will help to promote investment in mini-grids across the country, which will help electrify underprivileged areas far from the main grid. The regulations support the national aspiration of realizing universal access to electricity by 2022 as outlined in the Kenya National Electrification Strategy launched in 2018. With a projected additional 280 mini-grids between now and 2022, mainly powered by solar, hydro and wind, underserved communities are poised to benefit from electricity below Kenya’s Carbon Dioxide Emission Factor (CEF) of 0.33kg per kWh.

Read more: https://www.indiasmartgrid.org/viewnews.php?id=5291

Latest Reports and Whitepapers by ISGF

Please visit following link to read full report: https://indiasmartgrid.org/resourcecenter.php
GRID MODERNIZATION

CPS Energy to Modernize the Electricity Grid in San Antonio, USA
CPS Energy has selected engineering, construction, and architecture firm Burns and McDonnell as program manager for a grid modernization program to improve the service quality of nearly 850,000 electricity customers. The cutting-edge grid modernization initiative will use state-of-the-art equipment and technologies to help reduce the frequency and duration of power outages, reduce storm impacts, and restore service faster when outages occur. The program calls for the installation of recloser devices and trip savers each year on distribution lines throughout the city. The project is on track to start construction in mid-July with the delivery of the first batch of reclosers. Automated fault detection devices are among the most important elements of a more reliable and resilient electrical infrastructure. Thus, with the ability to detect everything from minor voltage sags to more serious power events, these system improvements will greatly improve overall service quality and reliability for CPS Energy.

Read More: https://www.indiasmartgrid.org/viewnews.php?id=5266

Dominion Energy Proposes More Than $600 Million for Grid Modernization
Dominion Energy’s first phase of the 10-year Grid Transformation Plan (GT Plan) in progress, and the power and energy company has proposed spending hundreds of millions of dollars in phase II. In phase I of the GT Plan, Dominion made efforts to improve the security and reliability of the distribution grid, and also launch a new customer information platform. Dominion filed a proposal with State Corporation Commission for phase II of the GT Plan, which would set aside about $669 million in capital investments between 2022 and 2023. GT Plan will help provide its customers with more reliable service, greater access to clean energy sources, and additional ways to conserve energy. Phase II aims to integrate distributed energy resources (DERs), which include small-scale solar, wind, and energy storage facilities, as well as electric vehicles. New metering infrastructure and intelligent grid devices will gather and share the data over a secure telecommunications network.

Read More: https://www.indiasmartgrid.org/viewnews.php?id=5267

California Commission Takes Action to Modernize Grid for DER Future
The California Public Utilities Commission (CPUC), in ongoing actions to support energy reliability, recently took action, through the opening of a new proceeding, to modernize the state’s electric grid to integrate a high number of distributed energy resources (DERs), including electric vehicle (EV) charging. The proceeding focuses on preparing the grid to accommodate what is expected to be a high DER future and capturing as much ratepayer value as possible through actions such as clarifying grid roles and responsibilities, vehicle charging infrastructure forecasting, and community engagement. The expected proliferation of DERs in California, led by millions of new EVs, will pose new challenges for distribution planning and load management, as well as new opportunities for making customer demand more flexible, integrating renewable generation, increasing customer resilience, and promoting equity.

Read More: https://www.indiasmartgrid.org/viewnews.php?id=5243

SMART METERING

Dubai Electricity and Water Authority’s (DEWA) Passes 2 Million Smart Electricity and Water Meter Milestone
Dubai Electricity and Water Authority’s (DEWA) smart electricity and water meters are delivering benefits to customers. The deployment forms part of DEWA’s efforts to develop a state-of-the-art digital infrastructure, according to a company statement. DEWA has also started operating the Smart Meters Analysis and Diagnosis Centre, where smart meters are read and monitored remotely every 15 minutes. “In line with the directives of the wise leadership, we work at DEWA to provide an advanced infrastructure for facility and services management through smart and connected systems that use Fourth Industrial Revolution technologies including artificial intelligence, blockchain, Internet of Things and others,” says Saeed Mohammed Al Tayer, MD and CEO.

Read More: https://www.indiasmartgrid.org/viewnews.php?id=5243

Romania’s Electrica Secures EUR 120 Million Loan for Network Upgrades, Smart Meters, Renewables
The European Investment Bank (EIB) has signed a EUR 120 million loan with the power distribution subsidiary of Romanian electricity supplier Electrica Group to finance network modernization, advanced metering, and renewable energy integration. The loan, covering 75% of the project cost, will help Electrica connect more than 180,000 customers, increase network capacity, improve the reliability and quality of electricity supply, support an advanced-metering rollout, and enable the long-term integration of renewable energy generation. The distribution grid modernization will involve upgrading and building new power lines, constructing and refurbishing power substations, and installing components for network automation across Romania.

Read More: https://www.indiasmartgrid.org/viewnews.php?id=5269
**ELECTRIC VEHICLES**

**Magenta sets up the Largest Public EV Charging Station in Navi Mumbai, Maharashtra, India**

**Key Highlights:** The charging station will be functional 24X7 with 21 AC/DC chargers for 2-wheelers, 3-wheelers, and 4-wheelers. Chargers are also powered by a combined 40 kW rooftop solar power.

EV solutions provider Magenta will set up the India’s largest public EV charging station in Navi Mumbai, Maharashtra as part of its plans to provide 4,000 charging facilities by March 2022. Out of the 4,000 such facilities, around 1,000 are being installed in collaboration with public sector oil marketing company the Hindustan Petroleum Corporation (HPCL). The charging station will be functional 24X7 with 21 AC/DC chargers for 2-wheelers, 3-wheelers, and 4-wheelers. For vehicles that require AC slow charging, a parking bay has been developed which allows for overnight charging as well. These chargers can be operated through the ChargeGrid App with online remote monitoring, which includes an automated payment gateway, thereby eliminating the need of having a station marshal to monitor, maintain and operate the chargers at the location. These chargers are also powered by a combined 40 kW rooftop solar power.

Read More: [https://www.indiasmartgrid.org/viewnews.php?id=5258](https://www.indiasmartgrid.org/viewnews.php?id=5258)

**Ireland Launches First E-Scooter Trial with Ecosystem Approach**

Ireland has launched its first e-scooter trial across the five campuses of Dublin City University (DCU). It marks the country’s first major structured e-scooter trial. The research pilot involves four organizations: Europe’s e-scooter operator Tier, Irish micromobility tech platform Luna, the Insight SFI Research Centre for Data Analytics and Smart DCU, a district of Smart Dublin. The trial comes in parallel with moves to make e-scooters street-legal across Ireland. The project aims to set the bar for e-scooter safety standards in Ireland and worldwide with Tier and Luna equipping a fleet of 30 scooters with computer vision technology, allowing DCU based Insight researchers to explore a new source of smart city data.

Read More: [https://www.indiasmartgrid.org/viewnews.php?id=5260](https://www.indiasmartgrid.org/viewnews.php?id=5260)

**Tata Autocomp delivers 200kW DC fast chargers for e-buses in Mumbai and Ahmedabad**

Tata AutoComp in partnership with Tellus Power Green, a USA-based DC charging infrastructure company, has executed a supply order for 64 numbers of 200 kW DC fast chargers to Tata Power. They will be used at charging stations being set up to charge electric buses supplied by Tata Motors to Brihanmumbai Electricity Supply and Transport (BEST) for operation in Mumbai as well as Gujarat State Road Transport Corporation (GSRTC) in Ahmedabad. Fifty of these 200 kW fast chargers have already been commissioned and are in operation; installation of the remaining 14 is in progress. The Tata AutoComp-Tellus combine is providing complete installation and commissioning support along with ongoing AMC (Annual Maintenance Contract) with onsite support to achieve high uptime.

Read More: [https://www.indiasmartgrid.org/viewnews.php?id=5261](https://www.indiasmartgrid.org/viewnews.php?id=5261)

**ENERGY STORAGE**

**NTPC Invites EoI to Set Up 1 GW Battery Energy Storage System**

NTPC has floated a global tender to invite expression of interest for setting up 1,000 MWh of grid-scale battery energy storage system (BESS) at its power plants in India. Any Indian/Global Company/their Consortium/ Affiliates/Representatives are invited to submit EoI for setting up 1,000 MWh of Grid-scale BESS at NTPC Power Plants in India. The tender was floated on June 26, 2021. The tender notice said this expression of interest (EoI) is to assess commercialization prospects of setting up grid-scale BESS. After identifying the applicants through EoI, Request for Proposals (RFP) for undertaking projects across multiple NTPC plants shall be invited separately for setting up the facilities and scalable model for further additional requirements. Last date for submission of EoI is August 10, 2021.


**Leyline JV Provides Financing Support for 400 MW/1,400 MWh of Virginia and Texas Battery Projects**

Funding has been raised towards the execution of two battery energy storage projects in Virginia and Texas with a total capacity of 400 MW/ 1,400 MWh, from a partnership of two investment groups and a power project development company. Sector-focused investment group Leyline Renewable Capital, which provides debt and equity capital, has formed a joint venture (JV) with energy infrastructure investment company Starwood Energy Group, which will provide access to development capital, support and permanent financing for renewables projects. The JV has formed a partnership with American Power Ventures for the development and financing of the battery storage capacity, which will be in the two key regional wholesale markets operated by PJM Interconnection in Virginia and the Electricity Reliability Council of Texas (ERCOT).

Read More: [https://www.indiasmartgrid.org/viewnews.php?id=5262](https://www.indiasmartgrid.org/viewnews.php?id=5262)

**LG to Invest $5.2bn in Production of Electric Vehicle Battery Materials**

**Key Highlights:** This EV plant will have a capacity of around 1,00,000 units a year, which will include both two and three-wheelers.

South Korea’s LG plans to invest $5.2bn to start producing the chemicals and materials used in electric vehicle batteries, as the global industry leader urgently tries to reduce its dependence on China. LG will diversify its production of important materials including those used in cathodes, anodes, and separators, and hunt for investments and partnerships across mining, smelting,
and refining companies to improve its metal sourcing. LG Energy has battery production plants in China, Poland, and the US, and Korea. In March, the group announced a plan to invest $4.5bn by 2025 to expand its battery production in the US. The company supplies automakers including Tesla, General Motors, and Volkswagen. To meet that demand, LG would start building a cathode materials plant in Korea in December with an annual capacity of 60,000 tonnes. It expects its cathode production capacity to increase nearly seven-fold from 40,000 tonnes this year to 260,000 in 2026. The company will also seek mergers and acquisitions or joint ventures to expand its business for important battery components known as separators and set up an overseas manufacturing base.

Read more: https://www.indiasmartgrid.org/viewnews.php?id=5263

**Wärtsilä to Deliver another 200 MWh of Battery Storage for Pivot Power’s UK ‘Energy Superhubs’**

UK-based energy storage investor developer Pivot Power is to develop 100 MW/200 MWh of battery storage split across two sites in the West Midlands region of England in partnership with energy technology provider Wärtsilä. The projects continue Pivot Power’s Energy Superhub rollout – combining battery energy storage and electric vehicle (EV) charging, with the construction set to begin on one site in the final quarter of 2021 and the other in the first quarter of 2022. These two Superhubs are being developed in partnership with local authorities Coventry City Council, Sandwell Council and West Midlands development agencies. Wärtsilä will supply the battery technology which will be underpinned by its GEMS Digital Energy Platform for both sites.

Read More: https://www.indiasmartgrid.org/viewnews.php?id=5264

**Siemens and Fluence to build Renewables Integrating 100 MW/200 MWh Battery Project in Germany**

Siemens has signed a MoU of intent for the construction of a turnkey 100 MW/200 MWh large-scale battery energy storage system (BESS) in Wunsiedel, northern Bavaria, Germany. Siemens Smart Infrastructure, a business unit of the engineering giant which focuses on smart and digital energy, industry and building solutions signed the letter with Zukunftenergie Nordostbayern (Future Energy North-East Bayern), a consortium of regional stakeholders including utility suppliers, that are looking to accelerate the decarbonisation and modernisation of energy supply. Siemens will take care of project management duties, which will include the building of medium-voltage switchgear equipment and facilitating connection to the local high-voltage grid. Zukunftenergie Nordostbayern will use the battery system to manage the integration of renewable energy resources and reduce peak load constraints on the network.

Read More: https://www.indiasmartgrid.org/viewnews.php?id=5265

### RENEWABLE ENERGY, GREEN HYDROGEN AND MICROGRIDS

#### 3.2 GW Hydrogen Facility Planned for Ireland

Ireland is building a 3.2 GW facility to produce green hydrogen and ammonia. The project’s first phase will see the creation of a scalable green hydrogen production facility with a capacity of up to 2.7 GW. Using the green hydrogen from the first phase, the second phase entails the development of a 500 MW green ammonia facility. The facility’s green energy will be used both domestically and globally, providing carbon-free options to assist Ireland reduce its carbon footprint and establish itself as a green energy exporter.

Read More: https://www.indiasmartgrid.org/viewnews.php?id=5270

**Ballard Lands Fuel Cell Order for Tata Motors’ Hydrogen Buses**

Canada-headquartered Ballard Power Systems has landed an order to supply 15 of its 70kW fuel cell modules to power Tata Motors’ zero-emission electric buses. Ballard plans to complete the delivery of all modules by 2022. The buses are part of a joint study by Tata and Indian Oil Corporation Limited (IOCL) and planned for deployment in Faridabad, in the National Capital Region of Delhi, India. Tata Motors will supply the 15 buses to the Research & Development Centre of IOCL. Tata and IOCL will jointly study the potential of fuel cell technology for commercial vehicles, including testing, maintenance and operation of the fuel cell electric buses in real-world public transport conditions in India’s National Capital Region. IOCL will also generate and dispense the hydrogen fuel to be used by the Ballard modules in these buses.

Read More: https://www.indiasmartgrid.org/viewnews.php?id=5271

### SMART CITIES

**Smart City Mission: Nine Projects in Jaipur Completed**

Jaipur Smart City Limited (JSCL) has spent around Rs 142 crore on nine major projects so far, while 15 major projects are still in the work, costing around Rs 277 crore. Rajasthan took first place out of 36 states and union territories in the Smart City Mission’s online ranking. In the ranking of 100 cities in India, Udaipur is ranked fifth, Kota tenth, Ajmer 22nd, and Jaipur 28th. The major works include multi-level parking in Chaugan stadium, facade improvements in nine markets, rooftop solar panels, nullah coverage for 100m on each stretch, and the rejuvenation of Rajasthan School of Arts.

Read More: https://www.indiasmartgrid.org/viewnews.php?id=5274

**Dubai Utility Aims to Create World’s Tallest and Smartest Net Zero Government Building**

The Dubai Electricity and Water Authority (Dewa) has appointed a consortium of companies, including Microsoft, to implement digital twin, IoT, artificial intelligence and smart building technology for its new headquarters, Al Shera’a. It will be led by Moro Hub (Data Hub Integrated Solutions), a subsidiary of Digital Dewa, the digital arm of the utility. Sustainable building solutions specialist Johnson Controls is also part of the consortium. Al Shera’a (the word is Arabic for sail) will claim to be the tallest, largest, and smartest government net zero energy building with net zero carbon emissions in the world. The total energy used in the building during a year will reportedly be equal to or less than the energy produced on-site.

Read More: https://www.indiasmartgrid.org/viewnews.php?id=5275
Dragos, USA and E-ISAC Announce Initiative to Bring ICS/OT Collective Defense to Electricity Sector

Dragos, Inc., a provider of cybersecurity for industrial control systems (ICS)/operational technology (OT) environments, and the North American Electric Reliability Corp.’s (NERC’s) Electricity Information Sharing and Analysis Center (E-ISAC) have announced a joint initiative to strengthen collective defense and community-wide visibility for industrial cybersecurity in the North American electricity industry. The joint initiative enables E-ISAC analysts to gain greater visibility into ICS cyber threats facing the electric sector through Dragos’ Neighborhood Keeper technology.

Read More: https://indiasmartgrid.org/viewnews.php?id=5246

SASB, USA to Address Renewable Energy Standards for Power Industry

The SASB Standards Board is launching a project to set standards for renewable energy in the electric utility and power generation industry. The project, approved by the SASB Standards Board at its July 8 meeting, will investigate ways to measure how the utilities perform as they transition to renewable energy on a decarbonization pathway. The objective is to give full and comparable information to investors and other users of SASB standards, which are globally applicable, industry-specific standards to identify the minimal set of financially material sustainability topics and associated metrics for a typical company in an industry.

Read More: https://indiasmartgrid.org/viewnews.php?id=5248

DOE, USA to Propose First Energy Efficiency Standards for Manufactured Housing Since 1994

The Department of Energy is planning to update energy efficiency standards for manufactured homes for the first time since 1994. Strengthened standards for new homes could dramatically benefit the disproportionately low-income population who live in them because manufactured homes use 70% more energy per square foot than traditional houses. A 2016 draft DOE rule would have saved those living in manufactured homes thousands of dollars in energy bills over the lifetime of the home, but the Trump administration did not publish the rule. The DOE’s approach would use a tiered system with stronger efficiency requirements applied to more expensive units in order to limit upfront cost increases and ensure strong cost/benefit savings over the life of the unit.

Read More: https://indiasmartgrid.org/viewnews.php?id=5249

Tata Power-DDL collaborated with AutoGrid for AI based energy management

Tata Power Delhi Distribution (Tata Power-DDL), that supplies electricity to North Delhi has partnered with California-based AutoGrid for deploying artificial intelligence based smart energy management system. The firms have launched “a unique Incentive linked Behavioural Demand Response program to support effective utilization of Smart Meters and reduce network management cost.”

This comes in the backdrop of the Cabinet Committee on Economic Affairs (CCEA) approving the marquee ₹3.03 trillion power distribution company (discom) reform scheme that involves a compulsory smart metering ecosystem across the distribution sector—starting from electricity feeders to the consumer level, including in about 250 million households.

Read more: https://indiasmartgrid.org/viewnews.php?id=5250

Energy Tech Podcast: Blockchain and Artificial Intelligence - The Catalyst for Microgrids?

A move towards microgrids has the potential for significant socio-economic and environmental benefit, assisting with decarbonisation and improving network resilience. However, operating such as system requires the efficient and accurate monitoring and recording of usage data and coordination between multiple energy sources and the central electricity network. In this podcast, Richard Power and Lee Bacon discuss how the Internet of
AABB to deliver artificial intelligence modelling for data center energy optimization in Singapore

ABB has signed up to a pilot study with ST Telemedia Global Data Centres (STT GDC) to explore how artificial intelligence (AI), machine learning (ML) and advanced analytics can optimize energy use and reduce a facility’s carbon footprint. Singapore-headquartered STT GDC, which is one of the fastest growing global data center operators, is leveraging the digital transformation expertise of technology leader ABB as it bids to become net carbon-neutral by 2030.

ABB is conducting the pilot in two phases, beginning with initial data exploration, modelling and validation, studying historical data to establish how digital solutions would impact existing operations and energy use. Once proven, it will be followed by AI control logic testing in a live data center environment. STT GDC aims to achieve at least 10 percent in energy savings from its cooling systems, which is the largest consumption of electrical power in a data center after IT equipment.

NYPA launched Test Use of Artificial Intelligence in Upgrading Transmission Cable

The New York Power Authority (NYPA) is launching a demonstration project with a Sweden-based technology company to explore the use of artificial intelligence (AI) as part of a long-term upgrade strategy for the Y-49 Long Island Sound Cable. The cable transports power from Westchester to Long Island. The Electric Power Research Institute’s (EPRI’s) Incubatenergy Labs program announced the selection of Eneryield of Gothenburg, Sweden, as one of 20 startup companies that will conduct accelerated demonstrations of their technologies with utilities and the EPRI as part of Incubatenergy Labs’ 2021 Cohort.

SmartThings Energy: Convenient Home Energy Management for More Sustainable Living

SmartThings Energy, a new service within Samsung Electronics’ Internet of Things (IoT) app, allows users to take control of their energy consumption by providing real-time information on where and how energy is being used within the home.

Thanks to extensive growth of its partnership network, SmartThings Energy is growing into a smart energy management solution able to encompass the energy consumption of every appliance in a home, and even integrates such newer, renewable energy sources as solar.

IoT Turns Agri Waste Into Renewable Energy

Melbourne-based renewable energy company, AgBioEn, is using a combination of IoT devices, drones, and telemetry as part of an AUD 2 billion initiative to turn agricultural waste into renewable fuels. The company plans to take waste from high-yielding, sustainably-grown crops and then process it to produce renewable diesel, bio-jet fuel, LPG, heat (for on-farm glasshouses), food-grade liquified CO2, and a soil nutrient that can be plowed back to grow more crops.

AgBioEn has three key divisions: Agriculture, Bioenergy, and Environment. The Agriculture division is currently exploring innovative ways to grow better crops that achieve an increased yield in the grain or cobb, higher biomass, more carbon sequestered in the soil, and use less water.

IsGF Welcomes New Members

Bidgely has joined as an Industry Member

KBCN MCU Centre for Innovation, Incubation and Linkages has joined as an Associate Member
# Smart Grid Projects in India - Tenders

### Ongoing Tenders

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Utility</th>
<th>Tender Details</th>
<th>Submission Date</th>
<th>Source</th>
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<td>3</td>
<td>Madhya Pradesh Madhya Kshetra Vidyut Vitan Corporation Ltd. (MPMKVCL)</td>
<td>Appointment of advanced metering infrastructure service provider (AMISP) for smart metering on design-build finance-own-operate-transfer (DBFOOT) basis on hybrid OPEX mode</td>
<td>20th August, 2021</td>
<td><a href="https://bit.ly/3y9Hqu1">https://bit.ly/3y9Hqu1</a></td>
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### Expected Tenders

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<th>Tender Details</th>
<th>Status</th>
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</thead>
<tbody>
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<td>1</td>
<td>Daman &amp; Diu Electricity Department</td>
<td>Supply of 60,000 smart meters for Daman &amp; Diu</td>
<td>DPR being prepared</td>
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<td>2</td>
<td>Maharashtra State Electricity Distribution Limited (MSEDCL)</td>
<td>Supply of 4,00,000 smart meters for 10 towns under MSEDCL</td>
<td>RFP being prepared</td>
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</tbody>
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