Announcing Symposium of Experts on Smart Energy and Smart Mobility from 02 – 04 March 2022 at the 8th Edition of India Smart Utility Week 2022

India Smart Grid Forum, a PPP initiative of the Government of India, is organising the 8th edition of their annual flagship event, **India Smart Utility Week (ISUW 2022)** from **02 – 04 March 2022**, as an International Conference and Exhibition on Smart Energy and Smart Mobility on a 3D Virtual Platform (www.isuw.in). ISUW 2022 will bring together India’s leading Electricity, Gas and Water Utilities, Policy Makers, Regulators, Investors and the world’s top-notch Smart Energy Experts and Researchers to discuss trends, share best practices and showcase next generation technologies and products in smart energy, smart mobility and smart cities domains. ISUW 2022 conference will have sessions on varied themes such as Digitalization of Utilities and Digitalization Roadmaps; Regulations for the Evolving Green Grid of the 21st Century; Cyber Security for the Digitalized Grids; Power System Flexibility; Electric Vehicles and the Electric Grid and Grid Integrated Vehicles (GIV); Green Hydrogen Mission; Disruptive Technologies and Innovations for Utilities. Special Plenaries are scheduled on “Evolving Architecture of the 21st Century Grid with Two-Way Power Flows”. ISUW 2022 will also include interactive workshops, keynotes, technical sessions and technical paper presentations. Bi-lateral Smart Grid workshops with EU, USA and Germany will be held at the upcoming edition.

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Senior Government Officials will join in various sessions at ISUW 2022. Focused Workshops are scheduled on topics such as Empowering Women in Power and Water Sectors (In Partnership with WePower); Optimization of Levelized Cost of Green Energy (In Partnership with Schneider Electric); Smart Communication Solutions for Smart Utilities and Smart Cities (In Partnership with Telecommunications Standards Development Society of India and Telecom Engineering Centre); Live Line Maintenance in Utilities (In Partnership with Hot Line Training Centre, National Power Training Institute, and ALTEC, Inc); Interconnection of Regional Grids in Asia (In Partnership with European Union, IRADe and USAID); Smart Metering – Rollout Challenges, System Integration Architecture, Smart Meter Operations Centre (SMOC); Electric Cooking (In Partnership with Bureau of Energy Efficiency and Climate Parliament); Urban Air Mobility Systems (In Partnership with Boeing); Adoption of District Cooling Systems in India (In Partnership with BEE and APUEA). Seminars are planned on Smart City Gas Distribution and Smart Water Distribution. Special Inspirational Talks by celebrity speakers such as Anita Sengupta on “Future of Electric Planes and Power Systems”; Michael Potter on “Accelerating Humanity as a Multiplanetary Species” and Samer El Sayary on “Project Lunar Oasis: Architecture and Energy Systems for Space Colonization” are key highlights of ISUW 2022.

6th Edition of ISGF Innovation Awards will be organised as part of ISUW 2022. ISGF Innovation Awards instituted in 2017 are aimed to recognize and to celebrate organizations (utilities and technology companies), projects, products and personalities that have set new benchmarks in Electricity, Gas and Water Sectors. ISGF has selected and recognized more than 179 such organizations/individuals so far through these awards. The 6th Edition of ISGF Innovation Awards 2022 will be conferred to the Winners on 04 March 2022.

India Smart Grid Forum (ISGF) invites public and private utilities, urban local bodies, technology companies, start-ups, researchers and academia to be a part of the international conference and exhibition.

Background of India Smart Utility Week Conference and Exhibition

India is pursuing an ambitious mission on energy transition and is the only major economies that exceeded the targets under the Paris Agreement by end of 2020. India has now set a new target of 500 GW of renewable energy by 2030; and working on innovative policies and programs for holistic transformation to decarbonize the energy, transport, manufacturing and other sectors.
Since inception in 2011, India Smart Grid Forum (ISGF) has been spearheading the movement towards digitalization of utilities in India. Highly disruptive black swan events like Covid-19 presented never before opportunities for innovation and transformation with profound implications in the long term. In the aftermath of Covid-19, digital platforms have become the coveted assets for utilities in their business continuity and resiliency. Government of India has launched a new program that mandates smart meters for all the 250 million+ electricity customers in the country. This is going to create data driven smart utilities which will open up new business opportunities for organizations providing tools and services to host and manage the humungous amounts of data utilities are expected to generate in the near future. Utilities in India have embarked on the digitalization drive and are embracing emerging technologies such as Artificial Intelligence (AI), Machine Learning (ML), Robotics, Blockchain etc.

ISGF has been organising its flagship annual event, India Smart Utility Week (ISUW) since 2015 and it is considered as one of the top five international events on Smart Grids, Electric Mobility and Smart Cities. All the previous editions of ISUW (initially known as India Smart Grid Week – ISGW) were huge success that attracted the attention and participation of the whose-who amongst top-notch thinkers and utility leaders from around the globe. Technology Companies, Regulators, Policy Makers, Government Officials and Senior Officials from Electricity, Water and Gas Utilities from 50+ countries participated every year in the past editions of ISUW. Due to COVID-19, ISUW 2021 was conducted on a 3D virtual platform which was attended by over 2700 delegates and addressed by 457 Speakers from 49 Countries.

For more details about ISUW 2022, kindly visit www.isuw.in.

Join ISGF Online Training Programs

Register Now At: https://indiasmartgrid.org/onlinetrainingprogram/
For Queries, please write to: ronkini.shome@indiasmartgrid.org

Appointments and Transfers

Anil Mukim has been appointed as Chairperson, Gujarat Electricity Regulatory Commission

Jyoti Prasad has been appointed as Member (Law), Joint Electricity Regulatory Commission for the state of Goa and UTs

Sushanta Kumar Ray Mohapatra has been appointed as Member, Odisha Electricity Regulatory Commission
Join the Indian Delegation to DistribuTECH 2022 and POWERGEN International 2022 from 23-25 May 2022 at Kay Bailey Hutchison Convention Center, Dallas, Texas, 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 DistribuTECH (DTECH) 2022 and POWERGEN 2022 which will be held from 23-25 May 2022 at Kay Bailey Hutchison Convention Center, Dallas, Texas, USA.

DTECH is the leading annual transmission and distribution event that addresses technologies used to move electricity from the power plant through the transmission and distribution systems to the meter and inside the home. The conference and exhibition offer information, products and services related to electricity delivery automation and control systems, energy efficiency, demand response, renewable energy integration, smart metering, T&D system operation and reliability, communications technologies, cyber security, gas and water utilities technologies and more. DTECH attracts around 12,000 attendees and around 500 exhibitors from 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

POWERGEN International 2022 is happening side by side with DTECH 2022 at the same venue. POWERGEN is the largest network and business hub for electricity generators and solution providers engaged in power generation. Power producers, utilities, EPCs, consultants, OEMs and large-scale energy users gather at POWERGEN to discover new solutions as large centralized power generation business models evolve into cleaner and more sustainable energy sources. POWERGEN is the industry standard and resource for electricity professionals to collaborate, connect, and meet with solution providers supporting the clean energy transition through digitalization, decarbonization, and efficiency while continuing to feature unparalleled opportunities in equipment and manufacturing. POWERGEN creates a progressive environment for audiences looking to evolve while attracting new energy professionals embracing the clean movement towards Destination 2050. Visit the event website for more information: https://www.powergen.com/welcome

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

To join the delegation or for more information, please contact: Ms Parul (parul@indiasmartgrid.org)

KEY CONTACTS

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

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**INDIA**

**Bihar DISCOM Receives Regulatory Approval to Procure 200 MW of Solar Power at INR 3.11/kWh**

The Bihar Electricity Regulatory Commission (BERC) has approved tariff and the power purchase agreement between the Bihar Renewable Energy Development Agency (BREDA) and SJVN Limited for procuring 200 MW of solar energy at INR 3.11/kWh. The procurement will help DISCOMs fulfill its solar RPO targets. Earlier, BREDA filed a petition for the approval to procure 250 MW of solar power from grid-connected ground-mounted solar projects to be set up in the state and for the draft power purchase agreement (PPA) to be signed by distribution companies (DISCOMs) and the successful bidders.

Read more: [https://www.indiasmartgrid.org/viewnews.php?id=5667](https://www.indiasmartgrid.org/viewnews.php?id=5667)

**Haryana’s EV policy to create infrastructure in office parks, housing societies**

The Haryana government’s draft EV policy, which proposes charging stations at commercial complexes, housing societies, and residential townships with a built-up area of 5,000 sq m, will help faster adoption of EVs and create better infrastructure in cities like Gurgaon and Faridabad, according to real estate developers and brokerage firms. With Gurgaon being a hub of MNCs, a policy will help developers include EV infrastructure from the start of the project. The objective of the Haryana government’s EV policy is to make Haryana a global hub for electric mobility development and manufacturing of electric vehicles (EVs).

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**Lakshadweep Invites Bidders to Acquire its Distribution Licensee**

The Electricity Department of the Union Territory (UT) of Lakshadweep has invited bids to acquire its distribution company (DISCOM) responsible for electricity distribution and retail supply. According to the tender notice, the selected bidder will also be responsible for developing clean energy projects. In May 2020, the Government of India proposed to privatize DISCOMs in the union territories. DISCOMs in the union territories come under the administration of the central government while respective state governments govern those in the states. The government’s program to privatize DISCOMs to bring efficiency in the distribution sector.

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**Thirty-Nine DISCOMs Submit Draft Proposals Under Power Reforms Program**

According to the Ministry of Power (MoP), 39 out of 55 electricity distribution companies (DISCOMs) have submitted draft proposals under the ₹3.03 trillion reforms-based result-linked power distribution program. Meghalaya and Assam are the frontrunners in planning operational and financial reforms. Critical interventions envisioned under this program include providing support to DISCOMs to ensure 100% system metering, prepaid smart metering, energy accounting, and infrastructure works for loss reduction. The program would also facilitate modernization and system augmentation to improve the quality and reliability of the power supply. In addition, the segregation of feeders dedicated only for the supply of power for agricultural purposes, which are proposed to be solarized under the PM KUSUM program, will be approved on priority.

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**MNRE Offers Residential Consumers Freedom of Choice to Select Rooftop Solar Installers**

The Ministry of New and Renewable Energy (MNRE) has announced that residential consumers could install rooftop solar systems through vendors of their choice. Households do not have to go with listed vendors by DISCOMs to install the rooftop solar systems. Residential consumers can inform the DISCOMs of the rooftop solar installation either through a letter or application or on the designated website provided by DISCOMs and the Government of India for the rooftop solar program. DISCOMs will need to provide net metering to residential consumers within 15 days of receiving the information. The Government of India’s subsidy, which is 40% for rooftop capacity up to 3 kW and 20% beyond that up to 10 kW, will be credited into consumers’ accounts within 30 days of installation.

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**MNRE and IRENA Join Efforts to Develop Green Hydrogen in India**

The Ministry of New and Renewable Energy (MNRE) has signed a strategic partnership agreement with the International Renewable Energy Agency (IRENA), signaling its intent to strengthen further its collaboration with IRENA in the field of renewable energy. Under the partnership, IRENA would facilitate knowledge sharing from India on scaling-up clean energy technologies and support India’s efforts to advance cost-effective decarbonization through the development of domestic green hydrogen. MNRE and IRENA would work closely to assess the potential role green hydrogen could play as an enabler of the transition in India as a new source of national energy exports.

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**Government of India Approves Phase-II of the Green Energy Corridor Program**

The Cabinet Committee on Economic Affairs (CCEA) has approved the Green Energy Corridor Phase-II program for intrastate transmission systems. The program aims to add around 10,750 circuit kilometers (ckm) of transmission lines and 27,500 Mega Volt-Amperes (MVA) transformation capacity of substations. The
program will facilitate grid integration and electricity evacuation of around 20 GW of renewable energy projects in states like Gujarat, Himachal Pradesh, Karnataka, Kerala, Rajasthan, Tamil Nadu, and Uttar Pradesh. The Phase-II of Green Energy Corridor will be set up at an estimated cost of INR 120.31 billion. The government will provide 33% of the project cost, which is INR 39.7 billion, as central financial assistance (CFA). The CFA is expected to help offset the intra-state transmission charges to help keep the power costs low.

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INTERNATIONAL

California Allocates $6.1 Billion in its Budget for Zero Emission Vehicles

In the state’s budget for the financial year 2022-23, California allocated $6.1 billion towards zero-emission vehicle (ZEV) acceleration. The investment would include a General Fund of $3.5 billion, a $1.5 billion proposition, $676 million of Greenhouse Gas Reduction Fund, and a Federal Fund of $383 million. The government plans to invest $256 million for low-income consumer purchases and $900 million to expand affordable and convenient ZEV infrastructure access in low-income neighborhoods. The investment will be used to deploy a range of charging options, including grid-friendly high-power fast chargers and at-home charging facilities, to support communities.

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Dominion Energy Gets Green Light For $650m Grid Transformation Plan

US utility Dominion Energy has secured approval from the Virginia regulator to implement phase 2 of the grid transformation plan. The approval from the Virginia State Corporation Commission enables the utility to invest $650 million to modernize, expand, digitalize and decarbonize its grid network over a period of ten years. The plan will enable Dominion Energy to integrate more distributed energy resources such as electric vehicles, energy storage and renewable energy for grid reliability, resilience, decarbonization and flexibility. The plan also includes the installation of smart metering and intelligent grid devices and technologies for distributed intelligence, grid automation and various smart grid capabilities.

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Japanese Utilities Partner to Decarbonize Indonesia’s Power Sector

The Tokyo Electric Power Company Inc (TEPCO), JERA, TEPCO Power Grid, and Tokyo Electric Power Services Company (TEPCO) have agreed to co-conduct the Data Collection Survey on Power Sector in Indonesia for Decarbonization. The four companies have established a joint venture to deliver the project from November 2021 through March 2022. The project includes gathering and analyzing data on Singapore’s current energy market trends and future outlook. The agency will leverage roadmaps developed by the four companies to help Indonesia reduce its reliance on coal-fired energy generation and retire conventional energy generation. The roadmaps are expected to help Indonesia achieve its target of 23% of its total energy produced from renewables by 2025 and to curb the construction of new coal power plants by 2030.

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New York’s Distributed Solar Roadmap Aims at an Additional 4 GW by 2030

The New York State Energy Research and Development Authority (NYSERDA) and the New York State Department of Public Service (DPS) have submitted a comprehensive roadmap to expand the state’s successful NY-Sun initiative into one of the nation’s most extensive and cost-effective solar programs. The new set of policy states that the state plans to expand the distributed solar capacity by 4 GW, achieving its 10 GW target by 2030, enough to annually power nearly 700,000 homes and generate an additional 6,000 job in the industry. As per the state’s Climate Leadership and Community Protection Act (Climate Act) mandate, the state is expected to generate 70% of its electricity from renewables by 2030.

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China Installed 53 GW of Solar Capacity in 2021, Braces for a Post-Subsidy Era in 2022

Being the first year of China’s 14 five-year plan (2021-25), 2021 witnessed several developments that could have deep ramifications for the solar industry in the country. One of the major events of 2021 was the announcement by the National Energy Administration (NEA), in which it approved 97 GW of wind and solar projects spread over 19 provinces. The Asia Europe Clean Energy (solar) Advisory (ACECA), in its report, states that nearly 75 GW of the solar projects are under construction in China, out of which 45 GW of projects are scheduled to achieve grid-connectivity by the end of 2022, with the remaining expected to be commissioned by December 2023. By the end of 2022, nearly 550 GW each of wafer and cell manufacturing capacity could become operational.

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GRID MODERNIZATION

DTE Energy Proposes USD 388M Investment into Michigan’s Grid Funded by Rate Increase

In an effort to meet future electrification needs, adapt to climate change, and increase reliability, DTE Energy suggested a USD 388 million modernization effort for Michigan’s energy grid, electric storage, and generation system. All investment funds in this proposal would improve its service, including modernizing infrastructure and producing cleaner energy. Part of this would also make room for the continuation of the company’s tree trimming surge program, deployment of smart technologies for the reliability push, and modernization investments in key items such as substations, poles, wires, transformers, and more.

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India Secures USD 135M Aid to Implement West Bengal Grid Modernisation Project

A USD 135 million loan secured from the World Bank by the government of India will help modernise the grid in the Indian state of West Bengal. The government of West Bengal will use the loan to fund the implementation of the West Bengal Electricity Distribution and Grid Modernisation Project. The project aims to help utilities in the state address energy sector challenges and prepare for changing business models and consumer energy demands.

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SMART METERING

Enel’s Gridspertise Secures Contracts to Supply Over 650,000 Smart Meters, Italy, San Marino and Malta

Gridspertise, a new company established by Italian multinational utility Enel to help accelerate the digitalisation of the energy sector, has bagged contracts that will see the firm supply over 650,000 smart meters and more than 150,000 smart grid accessories. The contracts have been signed with 12 European distribution system operators (DSOs) with the majority of them being Italian. The other utilities are based in San Marino and Malta. The DSOs will leverage the smart meters as part of efforts to speed up their grid modernisation initiatives in central and northern Italy. The DSOs include one of Italy’s largest municipal utility HERA Group, Enemalta and Energie Offida.

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Itron’s Intelis 250 Smart Gas Meter Receives Approval from Measurement Canada

Itron, Inc. which is innovating the way utilities and cities manage energy and water, announced that its Intelis residential ultrasonic gas meter has received type approval from Measurement Canada, which confirms that it complies with PS-G-06 provisional specification for ultrasonic meters in Canada. As this is the first ultrasonic gas meter with an internal shutoff value to be approved by Measurement Canada, utilities can take advantage of Itron’s solution to transform how gas is delivered safely and efficiently. With Itron’s Intelis smart gas meter, utilities can extend intelligence to the edge of the gas communications network. Utilities and cities can now take advantage of the smart capabilities of the Intelis gas meter, including a built-in automatic shutoff valve, to enhance customer and employee safety and improve operational savings.

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Octopus Energy, Britain Teams Up with Horizon Energy Infrastructure for B2B Smart Meter Rollout

Octopus Energy has chosen Horizon Energy Infrastructure as its sole non-domestic meter asset provider, building on the existing relationship between the two. This partnership is to support business customers in switching to smart metering, with Horizon already financing smart meters as part of Octopus’ domestic smart meter programme. Horizon’s partnership with Octopus follows British Gas Business selecting IMServ as its preferred metering partner in December, while Shell Energy and smart energy infrastructure company SMS extended their exclusivity agreement for the installation of smart meters in the same month.

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ELECTRIC VEHICLES

Ministry of Power (MoP), Government of India Issues Revised Guidelines for EV Charging Infrastructure

The MoP has issued the revised charging infrastructure for electric vehicles (EVs) guidelines to accelerate the e-mobility transition in the country. The guidelines aim to enable faster adoption of EVs in India by ensuring safe, reliable, accessible and affordable charging infrastructure and ecosystem. Another objective is to provide affordable tariffs for charging station operators/owners and EV owners and proactively support the creation of EV charging infrastructure. The new guidelines also aim to promote energy security and reduce the emission intensity in the country.

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Blink Charging Launches Seven Next-Generation Electric Vehicle Charging Products

Blink Charging Co. a leading owner and operator of EV charging equipment and services, launched seven new products at the annual Consumer Electronics Show (CES). The new products include the MQ 200, HQ 200 (Smart and Basic models), Vision IQ 200, and 50 kW DC Fast Charger, which offer next-generation EV charging technology across the EV ecosystem, including home, fleet, multifamily, and retail. In addition, Blink is launching two new apps, Blink Mobile App and the Blink Fleet portal, to empower a more seamless, efficient, and affordable charging experience for both consumers and fleets.

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First Electric Bus Designed and Developed in Africa

Opibus has introduced the first electric bus in Kenya as well as the first African designed electric bus. This is the first major step in the company’s vision to provide a locally designed and developed electric bus that can be mass-produced for the pan-African market by the end of 2023. This is a step towards realizing Opibus’s goal of electrifying Africa’s public transport system, deploying products tailored for the local use case. This bus will be significantly lower cost than importing fully built electric buses. However, it also has superior performance compared to its diesel counterpart.

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ENERGY STORAGE

Vistra Announces Expansion of World’s Largest Battery Energy Storage Facility

Vistra announced that it plans to further expand its Moss Landing Energy Storage facility in Moss Landing, California. The company has entered into a 15 year resource adequacy agreement with Pacific Gas and Electric Company (PG&E) for a new 350 MW/1,400 MWh battery system. This would complement the existing 400 MW/1,600 MWh of energy storage capacity already at the site. Through this partnership with PG&E, Vistra is bringing its capabilities and expertise to lead the clean energy transition and provide much-needed electricity to the people of California.

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Honeywell Signs 19 GWh ‘next-gen’ Battery deal with Startup FREYR Battery

A major supply deal and exchange of energy storage system (ESS) technologies and components has been agreed between Honeywell and Norwegian lithium-ion battery manufacturing startup FREYR Battery. FREYR is building out gigafactories in Europe, beginning with its first 2 GWh plant currently under construction in Mo i Rana, Norway and targeting up to 83 GWh of annual production capacity by 2028, with an interim target of 43 GWh by 2025. Honeywell will purchase 19 GWh of FREYR’s battery cells between 2023 and 2030.

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Amp Energy Announces the Largest Battery Storage Facilities in Europe with Two Flagship 400 MW Projects Located in Scotland

Amp Energy, a global Energy Transition Platform, and renewable energy developer, announces Europe’s two biggest battery storage facilities with its 800 MW battery portfolio in central Scotland. The portfolio is due to be operational in April 2024 and will be comprised of two 400 MW battery facilities, each providing 800 MWh of energy storage capacity. The 400 MW batteries will be the two largest grid-connected battery storage facilities in Europe. Amp X, Amp’s proprietary AI-powered digital energy platform, will be used to optimize dispatch of power from the batteries to the electricity grid. The projects will provide reliable grid stability services and power management across the central belt of Scotland including Glasgow and Edinburgh.

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NTPC Invites Bids for 3000 MWh of Energy Storage Systems

NTPC Renewable Energy a wholly owned subsidiary of NTPC Limited, has invited bids from developers to set up interstate transmission system connected energy storage systems of 3000 MWh capacity with 500 MW (minimum) capacity anywhere in India. The last date to submit the bids is March 11, 2022. Bids will be opened on the same day. The interested bidders will have to submit USD 16,083 per MW as an earnest money deposit.

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RENEWABLE ENERGY, GREEN HYDROGEN AND MICROGRIDS

CS Energy Builds Over 150 MW of Solar Tracker Projects in US Northeast

CS Energy, an integrated energy firm that designs and builds projects in the solar, storage and emerging energy industries, announced a milestone and its continued growth in the northeast by providing full turnkey EPC services for over 150 MW of solar tracker projects in New York, Pennsylvania, Maryland and Connecticut. Four of these projects contribute to New York’s Clean Energy Standard, which targets 70 percent of renewable electricity by 2030 and 100 percent carbon-free electricity by 2040. CS Energy’s tracker projects in the northeast currently provide enough clean energy to power over 18,000 homes per year, or the equivalent of removing greenhouse gas emissions from nearly 34,000 cars per year. CS Energy also has 4 GW of large-scale solar tracker projects in its pipeline and anticipates continued tracker project growth in the northeast in the near future.

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Brihanmumbai Municipal Corporation (BMC) to Purchase Power from Hybrid Solar Plant at Maha Dam, India

The Brihanmumbai Municipal Corporation (BMC) signed a Memorandum of Understanding (MoU) on power generation and purchase from the proposed hybrid solar power plant at Balasaheb Thackeray Middle Vaitarna Dam, located in Maharashtra. Under the project, 100 MW electricity will be generated. While the hydroelectric power plant, which has long been in planning, will have a capacity of 20 MW, the floating solar photovoltaic power plant can generate as much as 80 MW.

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Enel Wins Grant at World’s First National Green Hydrogen Tender

Enel Green Power Chile and Highly Innovative Fuels (HIF), a unit of regional power producer AME, have won a USD 16.9m award in Chile’s First Call for Green Hydrogen Project Funding in Chile. The funding will be used towards about 240 MW of electrolyzers in the first commercial phase of the Faro del Sur project in the Magallanes region at the southern tip of the South American nation. The project is expected to produce 25,000 tons of green hydrogen per year from local wind power.

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Ameresco Awarded 10 MW Slemon Park Microgrid Project

Ameresco, a leading cleantech integrator specializing in energy efficiency and renewable energy, announced that it has been awarded the Slemon Park Microgrid project, which it will develop in collaboration with Prince Edward Island (PEI) Energy Corporation. The Slemon Park Microgrid will consist of a 10MW solar facility with direct current coupled energy storage. The microgrid will help manage peak load demands within Slemon Park and is expected to offset approximately 4500 tonnes CO2/year. The Slemon Park Microgrid project will further goal of achieving Net Zero energy by 2030 on Prince Edward Island.

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SMART CITIES

Sunderland City, England Council Deploys Integrated Smart City Platform

Sunderland City Council has deployed an integrated smart city platform (ISCP) to help improve services and citizens’ lives. The council has partnered with Connexin which will see the IoT and smart cities provider implement its platform. The council will use the ConnexinOS platform to pool data sets across adult social care, council tax, anti-social behavior, environment incidents and health and child services as well as integrate third party data. ConnexinOS uses artificial intelligence (AI) and machine learning (ML) to identify trends in data sets and suggests the best course of action, ensuring that no potential issues are missed, and the correct pathway is taken, according to Connexin.

Read More: https://www.indiasmartgrid.org/viewnews.php?id=5661

STANDARDS AND CYBER SECURITY

FERC Takes Initial Step to Address Internal Network Threats Through Cyber Standards, USA

The Federal Energy Regulatory Commission voted unanimously on January 20 to solicit comments on a proposal to direct the North American Electric Reliability Corporation to develop new or modified cyber reliability standards for the bulk power system. Once the commission receives comments on the draft notice of proposed rulemaking, it will determine whether to adjust the provisions of a final rule directing NERC to develop such reliability standards. The draft received bipartisan support from the commission, with members pointing to the importance of improved cyber security within the bulk power system.

Read More: https://www.indiasmartgrid.org/viewnews.php?id=5632

Safetech Innovations to Promote Cyber Security Solutions and Services in UK and USA

Safetech Innovations, a Romanian cybersecurity company listed on the AeRO market of the Bucharest Stock Exchange, announces the conclusion of the share capital increase operation and the raising 10.6 million lei from investors. The raised capital will expand the company’s business by setting up two new subsidiaries in the UK – London and the US – Reston, Virginia, to
promote and sell Safetech Innovations solutions and services in the two countries.

Read More: https://www.indiasmartgrid.org/viewnews.php?id=5633

**Energy Digitalisation Taskforce (EDIT) Report Puts Security and Resilience at the Heart of The UK Energy Sector’s Future**

The digitalisation and decarbonisation of the energy sector is driving exciting innovations and creating new business models. But the successful adoption of these technologies and new ways of working relies on the trust that services will continue to be delivered securely. More than ever, governments and regulatory bodies are embedding security and resilience obligations within regulation to enable safe digitalisation at scale. In the UK, the latest step toward a safe and secure future energy system comes this week with the publication of an independent report by the government-sponsored Energy Digitalisation Taskforce (EDIT).

Read More: https://www.indiasmartgrid.org/viewnews.php?id=5634

**FERC Releases Proposed Cybersecurity Rules**

The Federal Energy Regulatory Commission (FERC) issued a notice of proposed rulemaking to increase network security monitoring for high and medium-impact bulk power systems to protect against cyberattacks. Existing Critical Infrastructure Protection (CIP) reliability standards focus on the security perimeter of computer networks, and there is concern that those standards do not address vulnerabilities to internal networks. The move to require internal network security monitoring attempts to address situations in which individuals with trusted access, such as authorized vendors, might still introduce a cybersecurity risk to those systems. The 2020 Solarwinds attack is an example in which a vendor was leveraged to compromise public and private networks.

Read More: https://www.indiasmartgrid.org/viewnews.php?id=5635

**DISRUPTIVE TECHNOLOGIES**

**NET2GRID Successfully Joins Itron’s Ecosystem of Distributed Intelligence Applications**

Itron, Inc. which is innovating the way utilities and cities manage energy and water, announced that NET2GRID’s customer engagement and customer intelligence solution is now part of Itron’s expanding ecosystem of Distributed Intelligence (DI) applications. NET2GRID offers leading-edge Artificial Intelligence and machine-learning services in energy insights based on disaggregation of energy consumption from smart meter data. The application will help customers understand where their energy is being consumed and give utilities greater insight into individual appliances and EV charging energy consumption.

The installation of NET2GRID’s customer engagement and customer intelligence application is the first step in NET2GRID’s development plans for Itron’s DI ecosystem. NET2GRID will provide accurate residential load disaggregation and demand predictions by analyzing Itron DI smart meter data in near real-time. The application will identify the energy consumption by the individual appliance used, offering greater visibility into how the customer is using energy and recommending ways to potentially save money by adjusting specific appliance usage. Appliances include HVAC, hot water heaters, refrigerators, pool pumps, solar panels, EV equipment and more.

Read more: https://www.indiasmartgrid.org/viewnews.php?id=5654

**E Source Elevates the Strategic Value of Data in The Utility Sector’s Quest To Meet Sustainability, Reliability, And Equity Goals**

Following eight acquisitions in the past 24 months and a year of increasingly successful strategic client engagements, E Source has emerged as the data solution provider best able to help energy and water utilities meet their most pressing infrastructure, program, and equity challenges on the path to a sustainable future. Combining industry-leading research, technology planning and implementation, consulting, predictive data science, and a suite of utility artificial intelligence (AI) applications, E Source now wields a solutions prowess unequalled in the industry—one uniquely informed by decades of utility-industry experience.

Read more: https://www.indiasmartgrid.org/viewnews.php?id=5655

**A Machine Learning Company in California Using Quantum Computers at Mathlabs Ventures is Building the First Q40 ME Fusion Energy Generator Using Advanced AI & Neural Networks**

Harvard Mathematicians using Artificial Intelligence, Machine Learning, Blockchain and Neural Networks on a Quantum Computer have developed breakthrough algorithms and simulations that will enable the world’s most efficient Fusion Energy Power Plants to be opened 20 years earlier than planned with a Q40 Mechanical Gain by Kronos Fusion Energy Algorithms.

Kronos Fusion Energy Algorithms LLC and MathLabs Ventures announced that after 60 years of global research, the Fusion Energy industry is now poised to accelerate their growth rapidly to build commercially viable power plants 20 years earlier than planned because of three recent major advances in technology. The three major problems with reaching commercial success in Fusion Energy have recently been overcome with these three new technological advancements that together will make it possible to build efficient Fusion Energy Power Plants on Earth by the mid-2030s. These innovations, ongoing contracts & patents put KFEA’s current valuation at $530m with $1.2B in projected earnings over the next 2 years.

Read more: https://www.indiasmartgrid.org/viewnews.php?id=5656

**Elia Successfully Demonstrates TSO-visible EV Charging in Collaboration With Energy Web and BMW**

Elia Group, the Belgian and German Transmission Service Operator (TSO), in collaboration with Energy Web, the non-profit
building operating systems for energy grids, and BMW Group, has successfully demonstrated a TSO-visible EV charging session, laying the groundwork for improved EV charging, including renewable energy-only charging and fast supplier switching. In a demonstration at a public, fast-charging charge point from LamA in Berlin, Felix Kohlbrenner, research project manager at BMW Group, charged a BMW EV using this new solution, where the vehicle’s digital identity was securely shared with Elia. He also spoke with Helen Burgess from Elia about the solution and what it means for the future of EV charging.

The successful demonstration builds on Elia’s ongoing work with Energy Web on the E-Mobility Dashboard, an open platform designed to simplify the identification of EVs and charge points which enables all parties to receive trustworthy, secure data through Energy Web e-roaming hub, the Open Charging Network. This dramatically simplifies the process of data exchange between EV owners and participants of the energy sector, such as TSOs, energy suppliers, and flexible service providers. Typically, when an EV is charged, the local grid operator receives aggregated data on charging without receiving specifics on the individual vehicle. The same identities can be used to facilitate seamless payments with other market players, eliminating inefficiencies and oversharing of personal data.

Read more: https://www.indiasmartgrid.org/viewnews.php?id=5657

Blockchain Renewables Certification Scheme Launched in Uruguay

Uruguay grid operator UTE and the Ministry of Industry, Energy and Mining have developed a renewable energy certification scheme. The application is built on Energy Web’s decentralised operating system and is intended to enable companies to obtain certificates detailing the origin and source of renewable energies that they are purchasing.

With this development UTE and the ministry are among the leaders in developing blockchain application in the energy sector in Latin America and the first of which we are aware to advance this use case. Moreover, it is one of the first large scale blockchain applications to be developed in Uruguay.

Read more: https://www.indiasmartgrid.org/viewnews.php?id=5660

SMART WATER AND SMART GAS

In City Gas Distribution Bidding, Megha Engineering and Adani Total Gas Become Top Winners

Megha Engineering and Infrastructures Ltd (MEIL) walked away with the most 15 licences to retail CNG to automobiles and piped cooking gas to households in the latest city gas bidding round, while a joint venture of billionaire Gautam Adani’s gas arm and Total of France got 14 licences.

Read More: https://www.indiasmartgrid.org/viewnews.php?id=5659

Kerala Water Authority to Use Water Stethoscopes to Identify Leaks In Supply Lines

With an objective to address water scarcity in Kochi, Kerala Water Authority (KWA) is planning to plug the transmission loss, which is one of the major reasons for water shortage in the city and neighbouring local bodies. Digging up of roads for identifying the location of leakage is one of the major hindrances in the way of addressing the issue and KWA has introduced ‘water stethoscope’, a device to identify the leak without digging roads or with little digging. This will expedite the process of identifying leaks and plugging it.

Read more: https://www.indiasmartgrid.org/viewnews.php?id=5658

Smart Grid Projects in India – Tenders January 2022

Ongoing Tenders

<table>
<thead>
<tr>
<th>S. No</th>
<th>Utility</th>
<th>Tender Details</th>
<th>Submission Date</th>
<th>Source</th>
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<tbody>
<tr>
<td>1</td>
<td>Madhya Pradesh Paschim Kshetra Vidyut Vitran Company Ltd</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>03 March 2022</td>
<td><a href="https://bit.ly/3AwbDp8">https://bit.ly/3AwbDp8</a></td>
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<tr>
<td>4</td>
<td>Electricity Department, Puducherry</td>
<td>Appointment of advanced metering infrastructure (AMI) service provider for implementation of smart prepaid metering in union territory of Puducherry</td>
<td>15 March 2022</td>
<td><a href="https://bit.ly/33RdlQP">https://bit.ly/33RdlQP</a></td>
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</table>
India Smart Utility Week (ISUW 2022)

02 - 04 March 2022

Digital Platform

ISUW 2022
8th International Conference and Exhibition on Smart Energy and Smart Mobility

www.isuw.in

SUPPORTING MINISTRIES

Ministry of Power
Government of India

Ministry of Jal Shakti
Government of India

Department of Telecommunications
Ministry of Communication
Government of India

ISGF INNOVATION AWARD: 4th March 2022

ISUW 2022: Key Partners

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ISGF Innovation Awards Partner

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Technology Partner

Country Partners

Conference Sessions Partners
CONFIRMED SPEAKERS OF ISUW 2022 CONFERENCE

- Bhagawanth Khuba, Union Minister of State for Chemicals and Fertilizers, New and Renewable Energy, Government of India
- Alok Kumar, Secretary, Ministry of Power, Government of India
- AB Sengupta, CISO, POSOCO
- Abhishek Ranjan, Sr VP Strategy - Utilities & Retail, ReNew Power
- Ahmad Khan, Senior Vice President, Grid Automation, Hitachi Energy India Limited
- Ajay Pradhan, Chairman, C2S2
- Ajit V Mate, Lead System Engineer, Air Traffic Management, Boeing India Pvt Ltd
- Ajoy Rajani, ISGF
- AK Mishra, Director, National Smart Grid Mission, Vice Chair - ISGAN
- Akilur Rahman, Chief Technology Officer, Hitachi Energy India Limited
- Akshay Bhaward, GM - Hydrogen Business, ACME
- Amal Sinha, Executive Director, BRPL and BYPL
- Amarjeet Kumar, Wi-SUN Alliance
- Amit Ganjoo, Founder and Chief Executive Officer, ANRA Technologies
- Amit Kumar Pandey, Co-Founder, BeingAI
- Anand Srivastava, General Manager, L+G
- Anand Vasudevan, Founder and Chief Executive Officer, Spotimyze Energy & Mobility Inc
- Anant Venkateswaran, ISGF
- Andreas Carvallo, Founder and CEO, CMG Consulting, USA
- Anil D’souza, GM-IT, BESCOM
- Anita Sengupta, Professor of Astronautics, Founder and Chief Executive Officer of Hydroplane Ltd
- Anjan Bose, Professor, Washington State University
- Anjali Chandra, Member, Punjab Electricity Regulatory Commission
- Anoop Singh, Professor, IIT Kanpur
- Anurag J ohri, Managing Director, Natural Resources, Accenture
- Anjil Sengupta, Director, Bureau of Energy Efficiency
- Ashok Lavasa, Vice President, ADB
- Atul Kumar Bali, Chief General Manager, NPMU, NSGM
- B Sainath, Senior Solutions Architect – Utilities, Amazon Internet Services Pvt Ltd
- BB Mehta, Director, OPTCL
- Beni Suryadi, Manager – Power, Fossil Fuel, Alternative Energy and Storage, ASEAN Centre for Energy (ACE)
- BN Sharma, Chairman, Rajasthan Electricity Regulatory Commission
- Chanda Neupane, Project Chief Director, Nepal Electricity Authority
- Debajit Palit, Director - Rural Energy and Livelihoods, TERI
- Debasis U Banerjee, Managing Director, CESC, Kolkata
- Deepth V Dutt, Head – Strategic Initiatives, Public Sector, Amazon Internet Services Pvt Ltd
- Dharmendra Sharma, Research Scientist, VTT, Finland
- Dheeraj Wadhwa, Director - Commercial, Applied and Overseas Business, Carrier India
- DV Shastry, ED, Natural Gas Society (NGS)
- Dwijadas Basak, Chief - Commercial, SIG & Customer Experience, TPDDL
- Eckehard Tröster, CEO, Energy municipalities GmbH, Germany
- Edwin Koekkooi, First Councillor, Energy and Climate Action, Delegation of European Union to India
- Faruk Kazi, Chair, ISGF WG on Digital Architecture and Cyber Security and Professor, VJTI, Mumbai
- Florian Ermacora, Head of Units - International, DG ENERGY, European Commission
- Ganesh Das, Chair – Strategy, Collaborations, Innovation and R&D, TPDDL
- Ganesh Srinivasan, Chief Executive Officer, Tata Power Delhi Distribution Ltd
- Gauri Singh, Deputy Director-General, International Renewable Energy Agency
- George Hunt, Chief Strategy Officer, Smart Energy Water
- Gerhard Gamperi, Director, Verbund AG, Austria
- Ghanshyam Prasad, Joint Secretary, Ministry of Power, GoI
- Girish Ghatikar, Chair of ISGF Working Group on Flexibility & Electric Mobility
- Greg Myers, Vice President - Product Development, Trilliant Networks
- Gunjan Gautam, Energy Specialist, South Asia Energy Unit, The World Bank
- Harry Dhaul, Director General, IPPAI
- HE Ugo Astuto, European Union Ambassador to India
- Jean-Michel Glachant, Director, Florence School of Regulation
- Jemma Green, Founder and Chief Executive Officer, Power Ledger, Australia
- Jing Lu, Commercial Officer, USDOC
- JIwan Acharya, Principal Energy Specialist -South Asia, ADB
- John Smith-Sreen, Director, Indo-Pacific Office, USAID/India
- Jussi Numminen, Chairman, ETSI Technical Committee on DECT
- Kenneth Budka, Senior Partner, Bell Labs Consulting, Nokia
- Kiran Kumar Kuchi, Professor, IIT Hyderabad
- Kishore Narang, Founder, Narnix
- Klaus Känsälä, Principal Scientist, VTT, Finland
- KVS Baba, Former CMD, POSOCO
- MAK Singh, Chief Engineer - IT, Central Electricity Authority
- Mandar Patil, Manager, Solutions Architect, Amazon Web Services
- Mani Vadari, President, Modern Grid Solutions, USA
- Manoj Pongde, Sr Vice President, Reliance Energy
- Manu Maudgil, Director – Clean Power Programme, Shakti Sustainable Energy Foundation
- Marcus Merkel, Senior Strategy Manager, EWE AG, Germany
India Smart Grid Forum

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- Mark McGranaghan, EPRI Fellow and VP – Power Delivery and Utilization, Electric Power Research Institute
- Markus Wypior, Director, GIZ India
- Matthieu Craye, DG ENERGY, European Commission
- Michael Porter, Founder, Geeks Without Frontiers
- Minna Kuivalainen, Social Innovation Expert, E-Land Project, European Union
- Mohammad Hussain, Director General – Power Cell & Power Division, Bangladesh Power Development Board
- Monali Z Hazra, Regional Energy Manager and Clean Energy Specialist, USAID
- Mukesh Khullar, Member, Maharashtra Electricity Regulatory Commission
- Murali Krishna Gannamani, Managing Director and CEO, Fluentgrid Ltd
- N Venu, Managing Director and Chief Executive Officer, India and South Asia, Hitachi Energy
- N Mikkelsen, Social Innovation Expert and CEO & Founder, Geco Global
- Nader Farah, President, ESTA International, USA
- Narcis Vidal, VP – BD and Sales, AP and North America, Gridspertise (ENEL), Italy
- Narendra Taneja, World Energy Policy Institute
- Naresh Sardana, Member, Haryana Electricity Regulatory Commission
- Neil Chatterjee, Former Chairman, Federal Energy Regulatory Commission, USA
- Nikos Hatzigryriou, Professor and part of Re-Empower Project
- Niles Kane, Head-Distribution, Tata Power Company Ltd
- OD Naidu, Global R&D - APTSPLU, Hitachi Energy
- Olufolahan Osumuyiwa, Chairmen University, Sweden
- Pablo HEVlA-KOCf, Energy Analyst, IEA
- Pankaj Batra, Former Chairman – CEA and Project Director, IRADe
- Pattada Kallappa, Director, Boeing India Engineering and Technology Centre
- Paul Tobin, Social Innovation Expert, iElectrix Project, European Union
- Peter Lundberg, Head of Operations, APUEA
- Phil Beecher, President and CEO, WISUN Alliance
- Philippe Lienhart, Project Manager - OSOWEG, EDF-France
- Pierre-Jacques Le Quellec, iElectrix Project, European Union
- PK Agarwal, Former Director and CISO, POSOCO
- Pradeep HirasaVe, Product Development Manager, Reliance Jio
- Pranav Vaidya, Social Specialist, The World bank
- Praveer Sinha, Managing Director and CEO, Tata Power Company Ltd
- Rahul Tongia, Senior Fellow, CSEP
- Rajat Sarawat, Executive Director, Economic Regulation Authority, Western Australia and Senior Advisor, The Lantu Group
- Rajeev Gyani, Additional Director (Renewable Energy), International Solar Alliance
- Rajeev Sharma, VP - Engineering & Construction, GIFT City
- Rajendra Cholan, Managing Director, BESCfOM
- Rajendra Sethya, Chief-Operations, Tata Power Ajmer Distribution Ltd
- Rajesh Bansal, Chief Executive Officer, BRPL
- Rajib Das, Deputy General Manager, CESC, Kolkata
- Rajib Mishra, Chairman and Managing Director (Addl. Charge), PTC India Ltd
- Rajit Gadh, Professor and Director, Smart Energy Research Centre, UCLA and Co-Founder, MOEV Inc.
- Rajkumar Sharma, President, All India Council for Robotics and Automation
- Rajnath Ram, Advisor, Energy, NITI Aayog
- Ravi Seethapathy, Chair, ISGF WG on RE and Microgrid; and Chairman, Biosirus, Inc, Canada
- Ravinder Singh Dhillon, Chairman and Managing Director, PFC Ltd
- Reena Suri, Executive Director, ISGF
- Reji Kumar Pillai, President, ISGF and Chairman, GSEF
- Richard Schoenberg, President - RJSenergy, EDF Fellow, and IEC Ambassador for Smart Energy
- RK Malhotra, President, Hydrogen Association of India and Former Director, IOCL
- RN Sen, Former Chairman, WBERC
- Robert Denda, Chief Executive Officer, Gridpertise - Enel, Italy
- Rohan Verma, Chief Executive Officer and Executive Director, MapMyIndia
- Raj Pratap Singh, Chairman, Uttar Pradesh Electricity Regulatory Commission
- RP Singh, Vice President, APAC and Middle East Region, SEW
- S Samanta, Chief Technology Officer, Tata Power Delhi Distribution Ltd
- Sabrina Hastings Mela, MUSEGRID Project, European Union
- Sachin Kumar, Associate Director – Energy Efficiency, Shakti Foundation
- Saiful Rahaman, President, IEEE and Professor, Virginia Tech
- Saji S, Senior Vice President, HVDC, Hitachi Energy India Limited
- Sajid Mubashir, Chair of BIS Committee for EVSE Standards; and Scientist-G, Department of Science and Technology
- Samesh El Sayary, Architect and Researcher on Outer Space Architecture
- Sandeep Bangia, Head, Electric Vehicle and Home Automation Division, The Tata Power Company Limited
- Sanjay Banga, President, Tata Power Company Limited
- Sanjay Sudhakaran, Managing Director, Schneider Electric Infra Limited
- Sanjeev Kumar, Chairman, Airports Authority of India
- Sanjoy Mukherjee, Executive Director, CESC Kolkata
- Saul Matthews, Commercial Director, Synaptec, UK
- Sebastian Lehnhoff, Chairman of the Board, OFFIS Institute for IT
- Shabihul Hasnain ‘Shastri’, Chairman, Delhi Electricity Regulatory Commission
- Shaleen Khetarpaul, Assistant Vice President, BRPL
- Shalu Agrawal, Senior Program Lead, CEEW
- Shenbagam Manthiram, Chief Executive Officer, TPCDL
- Simon Batchelor, Modern Energy Cooking Services
- SK Soonee, Former Advisor & Former CEO, POSOCO
- SL Karwadiya, Executive Director, MPPKVVL
- Smit Shah, President, Drone Federation of India
- Sourav Daspathai, Managing Director, Swach Environment Ltd
- SR Narasimhan, Acting Chairman and Managing Director, POSOCO
- Subir Sen, Executive Director, Powergrid
- Sudhhasatta Kundu, Senior Manager, ISGF
- Suman Kalyani, CGM-Planning, AP EPDCL
• Sumit Gupta, Co-Founder, AssetPlus Consulting
• Sushil Kumar, Deputy Director General, Telecom Engineering Center
• Swetha Ravi Kumar, Head of FSR Global, Florence School of Regulation
• Tanushree Bhowmik, The World Bank
• Tarun Katiyar, Chief BD, Tata Power Company Limited
• Teppo Hemia, Partner and Chief Executive Officer, Wirepas, Finland
• Timothy Dean Self, Vice President, ALTEC, USA
• Tobias Winter, Director, Indo – German Energy Forum, GIZ
• Tomas Gomez, Comillas University, Spain
• Tripta Thakur, Director General, NPTI
• Umesh Kumar Gupta, Vice President, Protection, BRPL

• Ramit Malhotra, Former Advisor & Former CEO, POSOCO
• Vikas Kashyap, ISGF
• Vimal Kumar, Modern Energy Cooking Services
• Vivek Kumar Dewangan, Additional Secretary, Ministry of Power, GoI
• Yogesh R Iyer, Founder and Chief Executive Officer, VINATA Aeromobility
• Yoshiro Kaku, Chief Representative, NEDO - India
• Yosi Shneck, Cyber Entrepreneurship & Business Development, Israel Electric Corporation
• Yukari Shibuya, Senior Youth and Gender Specialist, South Asia Social Development, The World Bank
• Yves Barlier, Head-Smart Grids Division, Enedis, France

... and many more

ISUW 2022: Participating Utilities
### CONFERENCE AGENDA SUMMARY

#### CONFERENCE THEMATIC SESSIONS

**02 MARCH 2022 (WEDNESDAY): CONFERENCE DAY 1**

**INAUGURATION OF ISUW 2022 CONFERENCE AND EXHIBITION**

New York 01:00 ~ 03:00 | Paris 07:00 ~ 09:00 | India 11:30 ~ 13:30 | Tokyo 15:00 ~ 17:00

**LUNCH BREAK + TOUR OF ISUW 2022 EXHIBITION**

New York 03:00 ~ 03:30 | Paris 09:00 ~ 09:30 | India 13:30 ~ 14:00 | Tokyo 17:00 ~ 17:30

<table>
<thead>
<tr>
<th>CONFERENCE THEMATIC SESSIONS</th>
<th>Time (IST)</th>
</tr>
</thead>
<tbody>
<tr>
<td>i. Session - 1: Digitalization of Utilities and Digitalization Roadmaps</td>
<td>14:00 ~ 16:00</td>
</tr>
<tr>
<td>ii. Session - 2: Regulations for the Evolving “Green Grid “of the 21st Century</td>
<td>16:00 ~ 18:00</td>
</tr>
<tr>
<td>iii. Special Plenary - 1: Evolving Architecture of the 21st Century Grid with Two-Way Power Flows</td>
<td>19:00 ~ 21:00</td>
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</tbody>
</table>

**WORKSHOPS**

<table>
<thead>
<tr>
<th>WORKSHOPS</th>
<th>Time (IST)</th>
</tr>
</thead>
<tbody>
<tr>
<td>i. 11th EU-INDIA Smart Grid Workshop PART-A (In Partnership with European Union)</td>
<td>13:30 ~ 15:00</td>
</tr>
<tr>
<td>ii. 1st Germany – India Smart Energy Workshop (In Partnership with GIZ, Germany)</td>
<td>15:00 ~ 17:30</td>
</tr>
<tr>
<td>iii. Workshop on Women in Energy (In Partnership with WePower)</td>
<td>17:30 ~ 19:30</td>
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</tbody>
</table>

**SEMINARS**

<table>
<thead>
<tr>
<th>SEMINARS</th>
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<tbody>
<tr>
<td>i. Presentation of Select Technical Papers: Part - 1</td>
<td>14:00 ~ 18:00</td>
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**ROUNDTABLES**

<table>
<thead>
<tr>
<th>ROUNDTABLES</th>
<th>Time (IST)</th>
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<tbody>
<tr>
<td>i. Roundtable - 1: Interconnection of Regional Grids in Asia (In Partnership with European Union, SARI/EI, IRADe and USAID)</td>
<td>15:00 ~ 18:00</td>
</tr>
</tbody>
</table>
### 03 March 2022 (Thursday): Conference Day 2

#### Rejuvenation Session

<table>
<thead>
<tr>
<th>Time (IST)</th>
<th>Activity</th>
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</thead>
<tbody>
<tr>
<td>09:00 ~ 10:00</td>
<td>Virtual Yoga</td>
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</tbody>
</table>

#### Inspirational Talks

1. **Fire-side Chat with Anita Sengupta, Professor of Astronautics; Founder and Chief Executive Officer of Hydroplane Ltd on the “Future of Electric Planes and Power Systems” Hosted by Shoma Choudhary, Journalist**
   - 10:00 ~ 10:45
2. **Talk by Devdutt Patnayak**
   - 18:00 ~ 19:00

#### Conference Themetic Sessions

1. **Session - 3: Cyber Security for the Digitalized Grids**
   - 11:30 ~ 13:30
2. **Session - 4: Power System Flexibility**
   - 14:00 ~ 16:00
3. **Session - 5: Electric Vehicles and the Electric Grid; and Grid Integrated Vehicles (GIV)**
   - 16:00 ~ 18:00

#### Workshops

1. **Workshop on Optimization of Levelized Cost of Green Energy (In Partnership with Schneider Electric)**
   - 11:30 ~ 13:30
2. **11th EU - INDIA Smart Grid Workshop – Part B (In Partnership with European Union)**
   - 14:00 ~ 17:00
3. **8th US - INDIA Smart Grid Workshop (In partnership with US Commercial Services; USAID; and USIBC)**
   - 18:00 ~ 21:00

#### Seminars

1. **Smart City Gas Distribution (In Partnership with Natural Gas Society (NGS) and India CGO Forum)**
   - 11:00 ~ 13:30
2. **Smart Communication Solutions for Smart Utilities and Smart Cities (In partnership with TSDSi and TEC)**
   - 17:30 ~ 20:00

#### Roundtables

1. **Roundtable - 2: Smart Metering – Rollout Challenges, System Integration Architecture, Smart Meter Operations Centre (SMOC)**
   - 10:45 ~ 13:45
   - 14:30 ~ 17:30

#### Lunch Break + Tour of ISUW 2022 Exhibition

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>New York 03:00 ~ 03:30</td>
<td>Paris 09:00 ~ 09:30</td>
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</tbody>
</table>
### 04 March 2022 (Friday): Conference Day 3

#### Rejuvenation Session

<table>
<thead>
<tr>
<th>Time (IST)</th>
<th>Activity</th>
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</thead>
<tbody>
<tr>
<td>09:00 ~ 10:00</td>
<td>Virtual Yoga</td>
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</table>

#### Inspirational Talks

<table>
<thead>
<tr>
<th>Time (IST)</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00 ~ 10:30</td>
<td>Accelerating Humanity as a Multiplanetary Species</td>
</tr>
<tr>
<td></td>
<td>Talk by Michael Potter, Founder, Geeks Without Frontiers and Senior Fellow, International Institute of Space Commerce</td>
</tr>
<tr>
<td>10:30 ~ 11:00</td>
<td>Project Lunar Oasis: Architecture and Energy Systems for Space Colonization</td>
</tr>
<tr>
<td></td>
<td>Talk by Samer El Sayary, Architect and Researcher on Outer Space Architecture</td>
</tr>
</tbody>
</table>

#### Conference Thematic Sessions

<table>
<thead>
<tr>
<th>Time (IST)</th>
<th>Topic</th>
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<tbody>
<tr>
<td>11:30 ~ 13:30</td>
<td>Session - 6: Green Hydrogen Mission</td>
</tr>
<tr>
<td>14:00 ~ 16:00</td>
<td>Session - 7: Disruptive Technologies and Innovations for Utilities</td>
</tr>
<tr>
<td>16:30 ~ 18:00</td>
<td>Special Plenary - 2: Role of Media in Promotion of Green Energy and Energy Transition to Net Zero</td>
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</tbody>
</table>

#### Workshops

<table>
<thead>
<tr>
<th>Time (IST)</th>
<th>Workshop</th>
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</thead>
<tbody>
<tr>
<td>11:00 ~ 13:30</td>
<td>Workshop on Live Line Maintenance in Utilities (In Partnership with Hot Line Training Centre (HLTC) and Altec Inc.</td>
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</table>

#### Seminars

<table>
<thead>
<tr>
<th>Time (IST)</th>
<th>Seminar</th>
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<tbody>
<tr>
<td>11:30 ~ 13:30</td>
<td>Smart Water Distribution</td>
</tr>
<tr>
<td>14:00 ~ 17:00</td>
<td>Presentation of Select Technical Papers: Part - 2</td>
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</tbody>
</table>

#### Roundtables

<table>
<thead>
<tr>
<th>Time (IST)</th>
<th>Roundtable</th>
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<tbody>
<tr>
<td>11:00 ~ 13:30</td>
<td>Roundtable - 4: Urban Air Mobility Systems (UAM) Pilots in India (In Partnership with Boeing AAI)</td>
</tr>
<tr>
<td>14:00 ~ 17:30</td>
<td>Roundtable - 5: Adoption of District Cooling Systems in India (In Partnership with Bureau of Energy Efficiency and APUEA)</td>
</tr>
</tbody>
</table>

#### Lunch Break + Tour of ISUW 2022 Exhibition

New York 03:00 ~ 03:30 | Paris 09:00 ~ 09:30 | India 13:30 ~ 14:00 | Tokyo 17:00 ~ 17:30

### ISGF Innovation Awards Ceremony & Valedictory Function of ISUW 2022

#### Award Ceremony Hall

New York 08:30 ~ 10:30 | Paris 13:30 ~ 15:30 | India 18:00 ~ 20:00 | Tokyo 21:30 ~ 23:30

For Special participation packages, list of features of the Exhibition booth and other enquiry please write to ronkini.shome@indiasmartgrid.org

Participation of Discom and Government officials is complimentary and unlimited passes are available.

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