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India Smart Grid Forum

India SMART UTILITY Week 2024

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Supporting Ministries

Session 4: Energy Positive Smart Buildings and Campuses

14 March 2024 | 11:00 AM – 13:00 PM **Hotel Lalit, New Delhi, India**

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Session 4: Energy Positive Smart Buildings and Campuses

Inaugural Session

14 March 2024 | 11:00 AM – 11:15 PM | #ISUW24

Welcome Remarks and Context Setting

Apurva Chaturvedi
Senior Clean Energy Specialist Indo-Pacific Office
USAID, India

Special Remarks

Atul Kumar Bali
Executive Director, POWERGRID
Director, National Smart Grid Mission

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Welcome Remarks and Context Setting

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APURVA CHATURVEDI

Senior Clean Energy Specialist - Indo-Pacific Office
USAID India

Apurva has 20 years of experience in clean energy and power sector. She has the experience of designing, leading, and managing several clean energy programs at USAID. Her area of expertise is strategy formulation and program design & management. She is currently leading the power distribution, smart grids, e-mobility, energy efficiency, clean energy financing and private sector engagement portfolio of USAID's energy portfolio in India. Prior to USAID she worked for British Council, British High Commission, as Project Manager-Climate Change for four years. She has done her Masters in Microbiology with specialization in Environment microbiology and a Post Graduate Diploma in Intellectual Property Rights.

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Special Remarks

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ATUL KUMAR BALI

Executive Director, POWERGRID
Director, National Smart Grid Mission

Atul Bali is an Electrical Engineer from Delhi College of Engineering and Masters in Technology in Management & System from Indian Institute of Technology, Delhi. He has over31 year of rich experience in power sector. His experience spans design, engineering, monitoring and successful implementation of SCADA/EMS/DMS projects. He has worked in NHPC, POWERGRID and PFC, the Navratna Public Sector Undertakings of Ministry of Power, Government of India. He has been associated from concept to commissioning of Unified Load Despatch & Communication Scheme and has also supervised the implementation of IT based distribution reform projects under prestigious Restructured Accelerated Power Development and Reforms Programme (RAPDRP). The RAPDRP Programme aimed at Establishment of reliable and automated systems for sustained collection of accurate base line data by adoption of Information Technology along with strengthening of power distribution system leading to self-sustaining distribution utilities. Presently he is working as Director in National Smart Grid Mission which has been established by Govt of India to plan and monitor the implementation of policies and programmes related to Smart Grid activities in India. He has played a key role in implementation of various Smart Grid Pilot Projects across various utilities in India.

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Session 4: Energy Positive Smart Buildings and Campuses

Panel Discussion: Connecting the Dots for Energy Positive Buildings and Campuses

14 March 2024 | 11:15 AM – 12:15 PM | #ISUW24

Chair

Anand Kumar
Chairperson
Delhi Real Estate Regulatory Authority

Moderator

Tanmay Tathagat
Director
Environmental Design Solutions

SPEAKERS

Mili Majumdar
Managing Director
GBCI

Abhishek Gupta
Head- International, Strategy, Appliances
Energy Efficiency Services Limited

Sujay Saha
Head- ESCO & HA, New Business Services
Tata Power Company Limited

Girish Ghatikar
Advisor
ISGF

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ANAND KUMAR

Chairperson

Delhi Real Estate Regulatory Authority

Anand Kumar is a career civil servant, who joined Indian Administrative Service in 1984 and rose to the highest level of Secretary to the Government of India heading the Ministry of New and Renewable Energy in the year 2017 till 2020. He has held many significant assignments in the Government of Kerala and in Government of India. He has built expertise in the renewable energy and housing regulation sectors. He is currently the Chairman of the Real Estate Regulatory Authority of Delhi. His Achievements in the Renewable Energy Sector are Enhanced total renewable energy capacity (installed, under installation or under bidding) from 60 GW in 2017 to 155 GW in April, 2020 (with 88 GW installed, 35 GW under various stages of installation and 33 GW under various stages of bidding); For the first time, under his leadership Renewable Ministry forecasted power demand of 500 GW upto 2030 and gave trajectory for bidding & creation of new capacity till that year; Planned linking the potential solar and wind areas with main transmission lines; Prepared a road map to augment existing and add new transmission capacity of 66.5 GW to evacuate planned 175 GW of renewable power by the year 2022; Designed and implemented various short/medium/long term policies, programs and strategies for enhancing deployment and integration of renewable energy (solar, wind, bio and hydro); Planned for financial closure and implementation of Renewable Energy projects, assess tariffs considering associated risks, renewable energy auction bids and evaluated existing energy assets and power purchase agreements; Planned exploitation of potential of offshore wind & creation of new testing facilities for offshore wind turbines.

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TANMAY TATHAGAT

Director

Environmental Design Solutions

Tanmay is the Director at Environmental Design Solutions, he is an architect and engineer with 28+ years of experience. He specializes in climate change mitigation and sustainable development across Asia, Africa, and the US. Tanmay led the development of energy conservation codes in India and supported similar initiatives across Asia. With expertise in green building design, energy simulation, and thermal comfort, he has advised global stakeholders and collaborated with government agencies and multilateral organizations. Tanmay has also contributed to the development of green building ratings systems and led significant energy studies. Currently, he is involved in setting thermal comfort standards for housing projects and developing national action plans. Tanmay holds an M.S. in Building Design and is recognized as a LEED Fellow. He chairs the USGBC LEED fellow selection committee and is active in various committees focusing on sustainability and energy efficiency. His impact extends to private sector firms, setting benchmarks for low environmental impact buildings. Tanmay experience spans numerous countries, shaping policies and practices for sustainable built environments.

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MILI MAJUMDAR

Managing Director
GBCI

Mili has more than three decades of experience in the field of energy and environment with a focus on sustainable development of habitats. She also has done course on Sustainable Investing and Design thinking from Harvard Business School (online). She is a strategic thinker, institution builder, an eloquent speaker and an innovative solution provider. She is proficient in enabling green buildings, climate resilient housing, sustainable financing, affordable housing, sustainable city planning and urban transportation. She is presently leading the development and management of a new global team focused on product and program innovation, thought leadership events and publications, and research activities and partnerships in USGBC. She has led multidisciplinary global teams to develop and implement portfolio of green rating systems for habitats and energy systems (GRIHA, LEED for residential, cities and communities, PEER) that have been widely accepted globally. She has steered programs supported by various multi-lateral and bi lateral donors and banks, such as UNEP, IFC, NHB, KFW, HSBC, ADB and more. Mili has also enabled the development of a large portfolio of green jobs through training and skill enhancement.

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ABHISHEK GUPTA

Head- International, Strategy, Appliances, Rooftop Solar, and PE&A
Energy Efficiency Services Limited

Abhishek Gupta has extensive experience in the energy and infrastructure sectors. Abhishek currently holds the position of Head of International, Strategy, Project Evaluation & Assessment at Energy Efficiency Services Limited, where they formulate and evaluates business strategies for sustainable growth. Additionally, they are responsible for developing new business models and leading project appraisals. Prior to this, Abhishek held the role of Vice President & Head- New Projects at BVG India Limited, where they successfully expanded the business into new domains such as renewable energy and telecom. Abhishek was involved in all aspects of business activities, including business development, tendering, contract negotiation, and project execution and delivery. Abhishek also served as Senior Manager at BGR Energy Systems, leading the company's business development efforts in the Southeast Asia, Middle East, and Africa regions for conventional and renewable energy projects.

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SUJAY SAHA

Head – ESCO & HA, New Business Services

Tata Power Company Limited

Sujay Saha is a dynamic professional with a proven track record in the energy value system and power utilities industry, seeking to leverage expertise as Head of IoT Solutions. Possessing comprehensive skills in IoT product development, Smart Grid implementation, and Distributed Energy Resource Management Systems, with a strong focus on leadership and solution development. He spearheaded the Home Automation business division as the Business Head at Tata Power EZ Home and developed and executed strategic plans to establish Tata Power EZ Home as a leader in the home automation market. He conducted study in developing roadmaps and feasibility studies for Smart Grid and Distributed Energy Resources deployment at TPDDL under two USTDA grants and also implemented 1st Pilot for roll out of Advanced Metering Infrastructure, Business Intelligence, Data Analytics, Integrated Communication Technology, and Auto Demand Response systems.

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GIRISH GHATIKAR

Advisor
ISGF

Mr. Rish Ghatikar is an Energy Fellow at General Motors in the United States, advocating for transportation electrification and grid integration to address climate risks. At the Electric Power Research Institute (EPRI), he led the Information and Communication Technologies (ICT) initiative for digital transformation of the electric industry. As Chief Research Officer at Greenlots (now Shell Recharge Solutions), he spearheaded the commercialization of electric vehicle—grid and storage-integrated technologies. Ghatikar also served as Deputy Leader for Grid Integration research at the U.S. Department of Energy's Lawrence Berkeley National Laboratory (LBNL), focusing on global demand response automation, OpenADR, and the transition of utilities for broader adoption of dynamic markets. Ghatikar's climate philanthropy extends to public-private sectors in advancing clean energy adoption. He serves as a Board member and Advisor to the India Smart Grid Forum (ISGF). An advocate for open innovation and interoperability, Ghatikar played a key role in the global adoption of OpenADR and OCPP, linking the electric grid and transportation sectors. His work, featured in over 100 scientific publications, is supported by dual Master's degrees in Telecommunication Systems/Computer Technologies and Infrastructure Planning.

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Session 4: Energy Positive Smart Buildings and Campuses

Thematic Discussion: Elements of Energy Positive Buildings and Campuses

14 March 2024 | 12:15 PM – 13:00 PM | #ISUW24

Moderator

Sumedh Agarwal
Deputy Chief of Party - Utilities and Technology
USAID's SAREP

Thematic Presentation

Manoj Kumar
Executive Engineer – Electrical
Nalanda University

SPEAKERS

Saket Sarraf
Founder and Principal
ps Collective

Shivali Dwivedi
Energy Technology Specialist
USAID's SAREP

Munish Sharma
AVP
BSES Rajdhani Power Ltd.

Tarun Garg
Principal
RMI India Foundation

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SUMEDH AGARWAL

Deputy Chief of Party - Utilities and Technology
USAID's SAREP

Sumedh leads utility modernization and advanced technology engagement as SAREP's Deputy Chief of Party. He works with government and private sector stakeholders to decarbonize their organizations, reach net-zero goals, and accelerate power sector utilities smart grid initiatives. Sumedh has over two decades of experience in the sustainability, energy, and innovation sectors. He has implemented multiple utility modernization programs, focusing on public-private partnerships, within the evolving utility landscape in South Asia, the Pacific, and the Middle East. He holds a specialization in project management, utility re-modernization, and demand-side management. In 2019, Sumedh published two white papers titled 'Distribution Franchise Experience in India' and 'Rethinking Discom Resource Planning in a RE Rich Environment'.

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MANOJ KUMAR

Executive Engineer – Electrical

Nalanda University

Manoj Kumar currently serves as the Executive Engineer (Electrical & IT) at Nalanda University, Rajgir, where he has played a crucial role in the development of the world's largest net-zero, green, and sustainable campus. With a master's degree in power electronics and systems, Er. Kumar brings more than 15 years in govt sector as key personnel as sustainable policy makers and long experience in the public energy sector. He specializes in Energy Regulations for Sustainable and Integrated Development, Carbon-Free and Green Habits, Grid Systems, SCADA, Smart & Mini Grid systems, Various complex systems of the HVAC (with latest technologies including DEVAPS Geothermal, Thermal Storage, etc) Renewable Energy Systems, CHP Engine based on Biogas and PNG sources, and Effective Water Management Systems with indigenous and latest integrated approaches. He is also recognized as a green professional and played a vital role in water harvesting through indigenous Ahar-Pynes systems. Er. Kumar's contributions to the development of the World's Largest Sustainable Campus at Nalanda University have been significant, from its conceptualization to its remarkable performance achievements. He meticulously planned the roadmap for implementing the net-zero campus and made substantial contributions to the formulation of the blended and hybrid Renewable Energy Regulatory Policy, published by the Bihar State Government Regulator in 2018. Prior to his exemplary performance at Nalanda University, Er. Kumar served as a Nodal Officer at the MP State Electricity Board.

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SAKET SARRAF

Founder and Principal
ps Collective

Dr. Saket Sarraf is the founder and Principal at ps Collective, a platform for advocacy, research, policy analysis, and consultancy to promote sustainable development. He is passionate about using data-driven approaches to tackle complex challenges. His current work focuses on equity, policy research, modeling, and decision support systems across buildings, cities and the electricity grid. With over 25 years of experience in India and the USA, he has worked with a wide range of clients, including government agencies, multilateral and bilateral projects, national and international foundations, advocacy groups, and corporations. He developed India's first Building Energy Performance Evaluation and Benchmarking Tool for commercial buildings that was adopted by the Bureau of Energy Efficiency. Dr. Sarraf holds a Ph.D. and a Master's degree from the University of Illinois at Urbana Champaign, USA where he received the prestigious 'Outstanding Ph.D. award'. He also has a Bachelor of Architecture (Hons.) from the Indian Institute of Technology, Kharagpur, India. In addition to his research and consultancy work, Dr. Sarraf is actively involved in teaching and community service.

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SHIVALI DWIVEDI

Energy Technology Specialist
USAID's SAREP

Shivali, a clean energy enthusiast, has over 9 years of experience in the domains of power and renewable energy. She has been proactively working in the domain of international development to support clean energy transition in South Asia and to increase the adoption of emerging clean energy technologies through grants and project monitoring, project implementation, and providing regulatory support. In the past, she has worked with the UK government and currently she is working in the USAID's South Asia Regional Energy Partnership (SAREP) program for promoting deployment of clean energy and advanced technologies. Shivali holds a Master's degree (M. Tech) in Renewable Energy from The Energy and Resources Institute (TERI), New Delhi.

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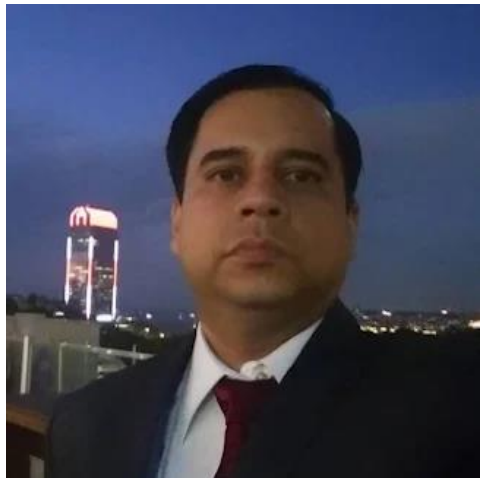
MUNISH SHARMA

AVP

BSES Rajadhani Power Ltd.



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Munish possess more than two decades of rich hands on experience with Multinational companies & Indian conglomerate in various roles across Business Operations, Consumer Services, Analytics, Consulting, Strategy & Policy Advocacy. In his current assignment at Power Distribution utility practice at BSES (JV of Reliance Infrastructure Ltd. & Delhi Govt.), he leads the ESG & Sustainability function. Previously, he has been appreciated by Central Electricity Authority (CEA) for his active contribution regarding Power Distribution Perspective Plan (2020-21) as part of National Electricity Policy (NEP) formulation. Additionally, he is also actively associated with various working groups in the Indian Power Sector. He is a Certified Trainer from DALE CARNEGIE and is also a honorary faculty at National Power Training Institute (NPTI is an autonomous body under Union Ministry of Power, Govt. of India). He has also authored a research paper on "Future Fuels" which was well acknowledged at a global Energy Summit organized by World Energy Council (WEC) at Istanbul (Turkey) during October 2016. Munish regularly engages at prominent industry level forums such as CII as an active Member in National Committee on Power (2017-18 onwards) for Regulatory Reforms & Demand Enhancement to deliver critical industry perspectives. He is a collaborative leader who is always on the learning curve. He strongly believes in fundamental development of people through empowerment and encouraging the decision making initiatives thereby creating a developmental opportunity for the organization thus creating an environment of broad based succession potential in the overall scheme of operations. He is an avid technology follower and strongly believes in Creativity & Innovation.

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TARUN GARG

Principal

RMI India Foundation

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Tarun is a Principal at RMI India Foundation and leads the built environment workstream. He is deeply passionate about whole systems solutions to decarbonise India's built environment. With over 14 years of experience managing diverse projects across India, Asia, and Africa. His work is dedicated to advancing energy efficiency, meeting NDC commitments, and achieving Sustainable Development Goals. Tarun's extensive knowledge spans a variety of sectors, encompassing the built environment, appliance standardisation and labelling, green cooling, agriculture supply chains, energy access, and industrial parks. All his expertise is unified under the broad umbrella of sustainability and built environment reforms. Before joining RMI India Foundation, Tarun served as the Program Lead for Buildings & Communities at the Alliance for an Energy Efficient Economy (AEEE). He also held significant roles at PwC as a Manager and at The Energy and Resources Institute (TERI) as a Fellow and Area Convenor of Sustainable Buildings Science.

THANK YOU FOR JOINING US IN THIS SESSION

NEXT SESSION

Session 6: Climate Resilience of Future Grids (In Collaboration with CDRI)