Green Data Centers:
Codes and Standards for Enhanced Energy Efficiency in Data Centers
Agenda

16 July 2019 | Imperial I, Vivanta Begumpet, Hyderabad

09:00am – 09:30am	**Registration & Networking**

09:30 am – 10:40 am: Session I
Inaugural and Introduction to Energy Efficiency in Data Centers
Inaugural session and introduction to Energy Efficiency in Data Centers. Dignitaries welcome the group and set the stage for the workshop.

09:30am – 09:40am	• Opening Remarks: **Ms. Mehnaz Ansari**, USTDA Country Representative-South Asia, Embassy of United States of America
09:40am – 09:50am	• Welcome remarks: **Ms. Aileen Nandi**, Minister Counselor, Commercial Affairs, U.S. Embassy
09:50am – 10:05am	• Green Data Center Rating to Address Sustainability in DCs: **Mr. S Karthikeyan,** Principal Counsellor, CII-IGBC
10:05am – 10:10am	• Journey Towards Green Data Centers: **Mr Sunil Khanna, Past Chairman, CII** Maharashtra State Council and President & MD, Vertiv Energy Private Limited
10:10am – 10:25am	• Data Centre Design Build and Delivery (DBD): **Mr. Syed Mohammed Beary,** Chairman, IGBC Bangalore Chapter and CMD, Bearys Group
10:25am – 10:40am	• Energy Efficiency in Data Centers – Association between IGBC and LBNL: **Mr. Dale Sartor**, Staff Engineer, LBNL U.S.
10:40am – 11:10am	**Health Break and Networking**

11:10 am – 12:10pm: Session II
Prevailing Practices in Data Centers for Energy Efficiency – In View of Standards and Codes
Prevailing practices in data centers for energy efficiency in view of standards and codes. Coming from an international perspective, experts will discuss emerging efficiency codes and standards and their application to practice. Experts including leaders from the U.S., multinational data center owner/ operators, and an audit and certification organizations will illuminate the state-of-the-art in energy efficiency standards and their application internationally and in the Indian context.

11:10 – 12:05pm	**Moderator: Mr Henry M Wong, Chief Technologist, E3HS IT Consulting, LLC** Panel Members: • **PresenCtation (15 min): Mr Henry M Wong** followed by panel discussion • **Mr. P C Lohia,** Senior Vice President, HVAC, Reliance Industries Limited • **Mr. Sandeep Dandekar,** Executive Vice President, Netmagic Solutions, NTT • **Mr. Mahesh Trivedi**, Data Centre Expert • **Mr. Siddharth Jain,** Managing Director, epi-India
12:05pm – 12:10pm	**Q&A**

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12:15 pm – 1:35 pm: Session-III
ECBC Code for Energy Efficiency in Data Centers – Recommendations by IGBC and LBNL

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The Indian Energy Conservation Building Code (ECBC) 2017 and its application to data centers. The Indian Bureau of Energy Efficiency (BEE) recently included data center in the ECBC. IGBC, LBNL, and a group of industry advisors are developing guidelines and recommendations for implementation. Besides setting a base level of efficiency, the team is making recommendations for higher levels of performance and best practices. Presentations will cover data center cooling, chiller plant performance, the electrical "chain" (e.g. UPS efficiency), and IT equipment and management.

12:15pm – 12:35pm **12:35pm – 12:55pm** **12:55pm – 01:15pm** **01:15pm – 01:35pm**	• **Mr. P C Lohia,** Senior Vice President, HVAC, Reliance Industries Limited • **Mr. Raghuveer Singh,** Director -Thermal Management, Vertiv Energy Pvt Ltd • **Mr. Vivek Rajendran,** Director, Software Engineering, Dell EMC, Infra. Solutions • **Mr. Pritam Goyal,** General Manager, Vodafone India Limited
01:35pm – 02:35pm	**Lunch and Networking**

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02:35 pm – 03:20 pm: Session IV – Panel Discussion
Role of Code Compliance in Achieving Higher Energy Efficiency

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International experts, practitioners, and others will reflect on the day's sessions and lead a discussion with all those attending regarding how codes and standards can help India achieve much higher levels of energy efficiency performance in data centers.

02:35pm – 03:15pm **03:15pm – 03:20pm**	**Moderator: Mr. Ashish Rakheja,** Managing Director, AEON Consultants & ASHRAE Board of Directors **Panel Members:** • **Mr. Dale Sartor**, Staff Engineer, LBNL, U.S. • **Mr. Pankaj Wadhwa,** Principal Architect, VastuNidhi Architects • **Dr. Shivraj Dhaka,** Counsellor, CII-IGBC • **Mr. Debashish Chakraborty,** General Manager, Schneider Electric, India Operation Q&A
03:20pm – 03:50pm	**Health Break and Networking**

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03:50 pm – 04:50 pm: Session-V
Performance Optimisation for Code Compliance and Operational Benefits

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Deploying innovation and best practices to achieve high energy efficiency performance in India. While some locations in India have unique issues with climate, power quality, and air quality, innovative best practices can still yield high returns on performance and save significant energy and money. Still, performance optimisation in design would offer maximum operational benefits.

03:50pm – 04:10pm **04:10pm – 04:30pm** **04:30pm – 04:50pm**	• **Mr. Tony Gaunt, Senior Director,** Colocation, Cloud & BFSI, Vertiv Asia & India, Code Compliance in Data Centers – Key Challenges and Way Forward • **Mr. Mario Dias, Manager-Fac Operations Workplace Resources,** NetApp, Free Cooling to Optimise Operational Expenditure • **Mr Biju Jacob John, Associate Vice President -** Solutions Engineering & Bids Management, Solutions Engineering, Netmagic (An NTT Company) Energy Efficiency in Netmagic Data Centers
04:50pm – 05:00pm	**Conclusion: Mr Henry M Wong,** Chief Technologist, E3HS IT Consulting, LLC
05:00pm – 05:15pm	**Wrap-up Session:**

	• **Ms. Jessica Roop, Manager, International Policy, ANSI** • **Dr RK Bajaj,** Deputy Director General, Bureau of Indian Standards (BIS) • **Mr. Anupam Kaul,** Principal and Head (QMS), CII • **Closing Remarks: Mehnaz Ansari,** USTDA Country Representative – South Asia
05:15pm – 05:25 pm	**Q&A and Distribution of Feedback Forms**
05:25pm – 05:30pm	**Conclusion**: IGBC and LBNL