

Automation can contribute a lot to achieve the goals proposed by the COP 26 Conference working with projects and initiatives in the areas of decarbonization, electrification, emissions reduction, process efficiency, circular economy, etc. This is a great opportunity for the automation professionals to contribute and to demonstrate the value of automation to their companies.

Quote by our President Carlos Mandolesi

Taking a small step towards this ISA Bangalore signed an MOU with the CLF Bangalore a hub of the Carbon Leadership Forum (CLF Bengaluru | Carbon Leadership Forum) on 14 May 2022. This partnership will be also supported by the ISA Building Automation Division.

Speaker Dr Kanwal

Founding Member: Carbon Leadership Forum – Bengaluru Hub in Association with CLF University of Washington. As a building physicist and sustainability consultant in Net Zero Buildings & Infrastructure, working as a resource person to Architects, Consultants, & Contractors to reduce carbon footprint, facilitate the green rating (GRIHA, LEED, IGBC, ECBC, RESET) to streamline energy baseline & forecasting, renewable energy assessment, energy efficiency strategy, IAQ, water and waste management by maintaining a current understanding of the trends & influences of sustainable design, construction, new materials & technology available locally and globally.

CLF

The Carbon Leadership Forum mission is to eliminate embodied carbon in buildings and infrastructure by inspiring innovation through collective action to create a just and thriving future. We pioneer research, create resources, foster cross-collaboration, and incubate member-led initiatives to bring embodied carbon emissions of buildings down to zero. We are architects, engineers, contractors, material suppliers, building owners and policymakers who care about the future and are taking bold steps to decarbonize the built environment, with a keen focus on eliminating embodied carbon from buildings and infrastructure.

Dr Jayesh Barve

Title: Global "Net-Zero-Carbon by 2050" goals inspiring ISA & CLF partnership @ Bangalore

Abstract: After experiencing the devastating impacts and sufferings of global warming, the nations across the world have lately become responsible and committed through the 2015 Paris Climate Accord the decisive plans and commitments to work together to reduce green-house gas emissions systematically in a stepwise manner targeting "net-zero-carbon-emission" by 2050/onwards and restrict global-warming to <2 degC.

Since, the Buildings Systems (Residential, Commercial, Industrial, etc.) collectively constitute a significant ~40% of total carbon emissions in leading countries in America & Europe. This is primarily due to buildings constituting a significant share amongst various energy consumer systems. Hence, to meet the "zero-carbon by 2050" goals, it is essential to reduce carbon-emissions from buildings -- not only via minimizing the energy consumption alone during buildings' long operational life, but rather across the buildings' life-time, i.e. minimize emissions/energy also during pre-construction sourcing-logistics, during construction, & end-of-life building-disposal phases as well.

ISA, especially ISA Building Automation Division, is a professional society, group of professionals focused towards automation and digital transformation technologies used

in/for buildings & infrastructures. It covers the areas like building energy (thermal & electrical) optimization (within operational constraints like occupants comfort); recent trends towards integration of distributed green, renewable energy sources forming the building/campus/community scale electrical nano/micro/mini-grids around the building systems; in addition to conventional building automation subsystems topics like access-control, lighting, etc. Building automation, controls and optimization solutions reduce the overall energy consumption across the long operational life-time of the building systems. Thereby, ISA society & members fraternity has been and will play a significant role towards meeting net-zero-carbon goals via technical education, R&D, innovations, deployments, and pilot interventions to grow concepts and technologies for net-zero energy via green, carbon-neutral buildings. Similarly, CLF is a global organization playing a significant role towards the same goals, but through complimentary technology areas like construction-materials & methods, building architectures & designs, building end-of-life disposals strategy etc.

Hence, it seems natural and complimentary for ISA (esp ISA-BASDIV) and CLF to partner and join hands to enable, strengthen efforts to meet noble common goals like "net-zero-carbon by 2050". The partnership can be through collective efforts via relevant education & training, development, innovation, interventions in various complimentary, interdisciplinary technologies. The MOU between ISA Bangalore and CLF-Bangalore teams is the 1st step towards this.

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Signing the MOU

Dr Kanwal on behalf of CLF

Mr Prakash President ISA Bangalore
Section



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