Cooling the heat stressed India

Mainstreaming innovative solutions for sustainable and smart space cooling

While heatwaves are a fairly common phenomena in India, typically in May and June, the country has experienced early onset of heatwaves this year from March itself - average maximum temperatures in the month were the highest in 122 years. Rising temperatures are driving increased demand for cooling as people look towards air conditioners, air coolers, and fans with the need to achieve thermal comfort for a billion lives. The cooling demand in India is expected to grow by a factor of 9 by 2038 and cooling is projected to contribute towards half of the peak electricity demand by 2050. **Sustainable and smart space cooling solutions are the need of the hour and can help optimize the space cooling demand in India. This workshop intends to discuss the pathways for enhancing energy efficiency of Room Air Conditioners (RACs), the highest energy intensive cooling technology.**

One potential pathway is by enabling component level efficiency gains and making them compatible with the new class of high-pressure, low-GWP refrigerants that are environmentally friendly and sustainable. AEEE with support from ICA thus conceptualized a study titled **"*5mm Copper Tubing: Enabling Just Transition in the RAC industry*"** to establish technical, environmental and value chain benefits of accelerating the adoption of small diameter 5 millimetre (mm) inner grooved copper tubes in RAC heat exchangers. The report further outlines the challenges as well as opportunities to promote the domestic manufacturing of these tubes to achieve enhanced income & employment outcomes and achieve a Just Transition scenario for the Indian RAC industry. As a way forward, the role of the decision-making entities in the country is envisaged to establish complementarities between climate and economic policies and create enabling mechanisms for the downstream sub segments within industries such as tube manufacturing.

Date: 19th May 2022, Thursday **Time**: 11:00 AM – 04:00 PM

Venue: Hotel Royal Plaza, New Delhi

Draft Agenda:

Time	Description
11:00 – 11:05	Welcome by ICC Secretariat
11:05 – 11:15	**Keynote address** Mr. Gyanesh Bharti, IAS, Commissioner, SDMC*
11:15 – 12:30	**Opportunities for Efficient Space Cooling Technologies in Emerging India** • Mr. Arijit Sengupta, Director, Bureau of Energy Efficiency • Mr. Aditya Narayan Singh, Director, Ozone Cell • Representation from DPIIT* • Mr. Mayuresh Karmakar, Managing Director, International Copper Association India • Mr. Shubhashis Dey, Director, Shakti Sustainable Energy Foundation • Dr. Satish Kumar, President and Executive Director, AEEE **Report Launch and Presentation by AEEE – on '5mm Copper Tubing: Enabling Just Transition in the RAC Industry'**
12:30 – 13:30	*Lunch*
13:30 – 14:30 **(20 *mins on each theme*)**	**World Café forum: Enhancing energy efficiency of Room Air Conditioners (RACs)** ***Themes:*** • Strengthening S&L Program for RAC and Enhancing Check Testing • Advocating for RAC Lifecycle Assessment and Promoting Retrofitting • Achieving Component Level Efficiency Gains Moderators: 1. *Mr. Tarun Garg, Alliance for an Energy Efficient Economy (AEEE)* 2. *Ms. Shweta Kulkarni, Prayas Energy Group* 3. *Mr. Avinash Khemka, Chief Manager, International Copper Association India* ***Wold Café Forum Format**: Breakout Groups of 5-6 ICC members would be created to provide inputs on each theme mentioned above*
14:30 – 16:00	**Roundtable Discussion: Priorities for the next year** 1. **Moderators' Presentation:** Way forward from World Café Forum 2. **ICC Highlights and potential new members** 3. **Streamlining the Working of the India Cooling Coalition** • Strengthening information and communication framework • Developing an active community of knowledge exchange, policy support, and joint actions **Closing Remarks**
16:00 Onward	High Tea

** to be decided*