

Webinar on
Mobile Air Conditioning – Challenges and opportunities through ICAP implementation

22 December (Tuesday), 2020 | 16:00 – 17:30 IST (90 mins)

The global economy and 7.8 billion worldwide populations are facing unprecedented challenges due to the noble Corona Virus. The pandemic has overturned the growth of many sectors, from large scale businesses to small scale industries. India is the second worst hit country as to number of confirmed Covid-19 cases and deaths. The pandemic has stranded the movements of millions of people, making them to exist in their homes for months. This scenario has unfolded the importance and need of cooling (thermal comfort) and its associated surge in energy requirements. From the environmental perspective, cooling is globally regarded as a looming sector due to its persistent rise in capacity addition and leaving significant carbon footprints. On January 1, 2019, the Kigali Amendment to the Montreal Protocol, which aims for the phase-down of hydrofluorocarbons (HFCs) production and consumption, became effective after being ratified by 65 countries. The initiative envisages to avoid up to 0.4 °C of global warming by the end of this century, if the reduction of more than 80% of HFCs by 2047 is achieved over the next three decades.

Cooling sector, with its cross-dimensional nature caters the requirements of residential, commercial, industry, automobile and cold chain storage. Understanding its potential and opportunities, the Government of India, has released a strategic document 'India Cooling Action Plan (ICAP)' in March, 2019. The document presents country's vision for achieving sustainable cooling over the next two decades. The cooling sector largely influences the Indian automobile industry, which contributes seven percent of the country's GDP. The cooling system for automobile is commonly known as 'Mobile Air Conditioning (MAC)' system provides more thermally controlled environment while driving. The MAC system entails worthy of attention, due to its significant energy consumption, refrigerant usage and its associated greenhouse gas (GHG) emissions.

TERI with the support from Children Investment Fund Foundation (CIFF) under the SHEETAL initiative (*Alliance for Sustainable Habitat, energy efficiency and Thermal Comfort for All*) is organizing a webinar with the relevant stakeholders including government, industry, civil society organization and academia. The webinar intends to brainstorm the aspects of cooling in transport sector, opportunities and challenges for sustainable practices, along with the refrigerant transition.

Key Discussion Points:

- India Cooling Action Plan: The enabling policy framework to synchronise the actions
- Mobile Air Conditioning: Challenges and opportunities in adoption of climate friendly technologies
- Refrigerant transition and potential alternatives to achieve sustainable cooling targets
- Stakeholders capacity building and Industry collaboration

Tentative Agenda

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16:00 – 16:10	Welcome address	Mr. Shri Prakash, Distinguished Fellow, TERI
16:10 – 16:15	Setting the context	Mr. Manjeet Singh, Associate Fellow, TERI
16:15 – 16:25	Keynote address	Mr. Sandeep Raina, Senior VP – Engineering, Maruti Suzuki India Ltd.
Technical session		
16:25 – 16:35	Moderator & setting the theme	Mr. I V Rao, Visiting Senior Fellow, TERI
16:35 – 17:15	Panellists	Professor R S Agarwal, Advisor – Ozone Cell, MoEFCC
		Dr. Rashid Hasan, Advisor – Society of Indian Automobile Manufacturers (SIAM)
		Dr. Nitin Karwa, Technical Leader – Refrigeration, Honeywell India Technology Centre
		Mr. Somnath Sen, Head – Technical Centre, Subros Ltd.
17:15 – 17:25	Q & A	
17:25 – 17:30	Vote of thanks	Mr. Shanmuganathan K, Associate Fellow, TERI