

Facilitating the Implementation of **INDIA COOLING ACTION PLAN (ICAP)**

Context

India has by far the most significant number of population weighted cooling degree days (CDD) in the world (almost 30% of world total). Presently, India has one of the lowest per capita cooling demand in the world; however, owing to the rapid urbanization, enhancing socio-economic aspirations and escalating GDP, the cooling demand is set to rise exponentially in the next few years. This expansion in buildings and mobile air conditioning could strain the country's electricity infrastructure and entail massive HFC emissions. It is thus imperative that India's cooling demand be met in the most energy-efficient way possible, and be based on low-GWP refrigerants.

Project relevance to national priorities

India is a growing economy characterized by low penetration of air-conditioning, rising per capita income, rapid urbanization and a mostly tropical climate, all of which would lead to a rise in the requirement for cooling. Cooling is recognized as a developmental need that is linked with achieving many Sustainable Development Goals, and a larger part of this is catered through refrigerant-based cooling globally across sectors such as in buildings, cold-chain and refrigeration. The overarching goal of ICAP is to provide sustainable cooling and thermal comfort for all while securing environmental and socio-economic benefits for the society.

The project will support national government to facilitate the implementation of ICAP and achieving the critical objectives of ICAP and for improvisation in India's climate policies and strengthening the foundation of an enhanced Nationally Determined Contribution commitment, to reduce the emissions intensity of its GDP by 33 to 35 percent by 2030 from 2005 level and exceed India's commitments to climate action.



Project component

In line with ICAP, the project is divided into three work packages and the Sub-theme packages. And as a part of a consortium facilitating the implementation of the India Cooling Action Plan funded by Children's Investment Fund Foundation (CIFF), comprising of The Energy and Resources Institute (TERI), Council on Energy, Environment and Water (CEEW) and Alliance for an Energy Efficient Economy (AEEE), AEEE is the leading organization for the individual Work Theme 2: Sectoral Actions spanning across Sectoral Sub-themes on space cooling- implementing space cooling policies, programs and regulations and Work Theme 3: Enabling Actions through behavioral change.

Appliances

Energy performance standards and labelling and no refrigerant climate-friendly cooling solutions.



Cold-Chain

Energy efficient and climate friendly horticulture and immunization cold-chain



Buildings and Cities

Residential building code adoption and implementation

Outcomes and goals

With the overall objective of supporting the implementation of ICAP in India, the project will strive to achieve outcomes under different work packages and sectoral sub-themes over four years, with multiple goals. In this duration of four years, the project will focus on facilitating the implementation of ICAP for almost two years and facilitating the implementation of space cooling policies, programs and regulations, focused upon appliances, buildings, cities and cold-chain.

The key outcomes of the project will revolve around:

- Increasing annual efficiency improvement rates of AC and fans.
- Accelerating implementation of energy conservation building codes in the residential sector at the state and city level.
- Fast-tracking penetration of energy efficient non-refrigerant based cooling appliances.
- Demonstrating energy efficient and low climate impact cold chain solutions.

About AEEE

AEEE is a policy advocacy and energy efficiency (EE) market enabler with a not-for-profit motive. It is the only organization in India that works on creating awareness about energy efficiency as a resource. It advocates for data-driven, evidence-based EE policies that will unleash innovation and entrepreneurship within the country to create an energy-efficient economy. Through incisive activities, AEEE's mission is to be a partner in India's transformation into a global leader in the field of energy efficiency and shape India as one of the most attractive markets for companies with the best available energy-efficient technologies.