



Key Policy Action for Sustainable Cooling – India's Cooling Action Plan



"We need all countries to develop National Cooling Action Plans [NCAP] to deliver efficient and sustainable cooling and bring essential life-preserving services like vaccines and safe food to all people."

Antonio Guterres, UN Secretary General World Ozone Day 2019

- → Why is the development and implementation of NCAP crucial to tackle the cooling challenge?
- → How is the ICAP is helping to answer to the call of the Secretary General to accelerate NCAP's for all countries?



Cool Cooling Is Key To Health, Livelihoods & the SDGs

















Cooling Expansion Has To Be Managed

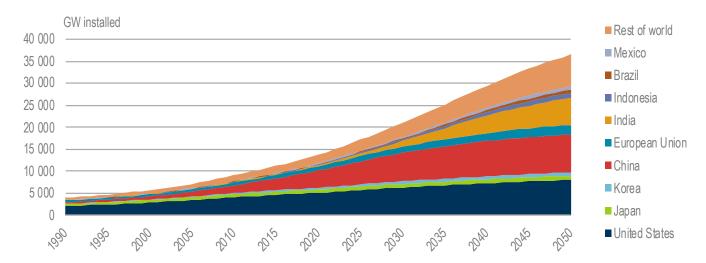




1.6 billion in use today **5.6 billion** by 2050.

→ And consumers are not buying the most efficient ACs





Source: Cooling capacity projections for residential and commercial air conditioning in baseline scenario of IEA Future of Cooling (2018).

Today: Conventional cooling causes up to 10% of all global GHG emission: 2X carbon emissions from aviation & maritime transport combined.

BAU: Direct and indirect GHG emissions projected to rise by 90% from 2017 levels by 2050



..... How to Cool more without Heating the Planet? Comprehensive strategy linked to refrigerant transition



- HFC phase-down can achieve 0.4 of avoided warming, with cooling efficiency could double the climate benefits. → in just four decades could avoid equivalent of 4-8 years GHG emissions (2018 base)
- Not a technology problem, a policy & finance problem

NCAP as blueprint for comprehensive strategy / policies → India's Cooling Action Plan

- assess cooling requirements, refrigerant demand & energy use
- coordinate efficiency with refrigerant transition interventions
- map technologies (avoid, shift, improve) and opportunities not always evident in short-term or siloed analysis
- align existing policies and programmes to match
- multi-stakeholder framework for cross-sectoral implementation





A Model National Cooling Action Plan based on ICAP















- Based on India's efforts Cool Coalition (led by UNEP) and its partners are preparing a model NCAP methodology (currently being piloted in Cambodia. Indonesia next)
- ICAP is the major building block, inputs from other 20 NCAPs UNEP- UNDP -KCEP
- Lessons learned: Governance, Flexible, Demand Assessment, Integrates Access



Coalition National Cooling Action Plan Structure

- 1. Foreword
- 2. Introduction: Why Cooling Matters, Objectives
- 3. Space Cooling in Buildings
- 4. Cold Chain (Agriculture, Dairy Health)
- 5. Mobile Air Conditioning
- 6. Process Cooling
- 7. Access to Cooling Needs Assessment

of recommendations and targets.

Demand Assessment:

8. Recommendations and Implementation framework: Cross-sectoral integration and synthesis

Baseline; technologies; future growth scenarios (reference & intervention) with associated refrigerant demand and energy use; and suggested interventions.

→ Country driven - each country to decide on priority sectors - not necessary to cover all .

- ✓ MEPS and Energy Labels
 - ✓ Building Energy Codes, Thermal Comfort St.
 - Service sector upskilling for HVAC prof.
 - ✓ User operational efficiency
 - ✓ Promotion of low-GWP refrigerants
 - ✓ Alternative / not-in kind technologies
 - ✓ Training and capacity building, certification

- ✓ NDC enhancement and HPMP updates
- Recycling and waste management
- Nature based solutions (cool roofs, greenery)
- ✓ Heat Action Plans/ Urban Cooling Action Plans
- Access to Cold Chain (off-grid micro cooling)
- ✓ Public Procurement of EE Cooling equipment
- ✓ Funding and financial mechanisms



Scaling South-South Transfer - ICAP Best Practice







Cool Coalition to collaborate on a transition to efficient, climate-friendly cooling contributing to SDGs, the Kigali Amendment, and Paris Agreement

- voluntary platform, 100 partners including 30 countries
- knowledge exchange, outreach, science, joint action (e.g. urban cooling methodology, renewable energy for cooling best practice, cold chain)
- S-S exchange and trainings on how to develop NCAPs (AEEE)
- Collaboration between India Cooling Coalition and Cool Coalition to respond to the call to help all countries adopt NCAP



Cool Coalition & the India Cooling Coalition

"India chapter" of the Cool Coalition – reflecting India's leadership

Support implementation of ICAP through pilot activities and develop best practice to facilitate south-south exchange building on India's example:

- urban cooling (including extreme heat action planning)
- efficient practices in cold chains
- standards and labeling programs
- building codes (integrated passive cooling strategies)
- urban cooling methodology tailored to the region

Mainstreaming cooling action within COVID recovery strategies GCF Readiness and Investment Projects

> Scaling-up GCF Projects on Energy-Efficient and Climate Friendly Cooling August 5, 2020 at 9:00 AM CEST





















Thank you!

Contact us
Lily Riahi, Coordinator, Cool Coalition, UNEP
lily.riahi@un.org

Atul Bagai, Head, India Office, UNEP Atul.Bagai@un.org