

National and subnational Cool Champions evaluation indicators

1. Access to cooling

- Population lacking access to affordable, sustainable cooling solutions (% of total population)
- Cooling support programs for vulnerable communities implemented (Yes/No)

2. Cold chain and thermal storage

- Vaccine and medical cold chain reliability (% of health facilities meeting standards)
- Food cold chain infrastructure capacity (e.g., refrigerated storage volume per capita)
- Thermal energy storage deployed for cooling (MWh)

3. Cooling energy efficiency

- Average energy efficiency of cooling appliances
- Market share of high-efficiency cooling equipment (% of annual sales)
- Cooling energy intensity of buildings (kWh per m² annually)

4. Finance and investment

- Annual investment in sustainable cooling solutions (% of total investment in sustainable cooling)
- Financial incentive programs for efficient or passive cooling technologies (Yes/No)
- International climate finance mobilised for cooling projects

5. Governance and planning

- National Cooling Action Plan (NCAP) implemented (Yes/No)
- Number or percentage of cities with adopted local cooling or heat action strategies
- Cooling strategies integrated into national climate policies or NDCs (Yes/No)
- Building codes include cooling efficiency and passive design measures (Yes/No)
- Sustainable cooling public procurement policy adopted (Yes/No)

6. HFC phase-down and refrigerant management

- Kigali Amendment to the Montreal Protocol ratified (Yes/No)
- HFC consumption relative to baseline level (% of baseline, per Kigali schedule)
- Refrigerant recovery and recycling systems in operation (Yes/No)
- Number of certified technicians for low-GWP refrigerant handling and servicing (number per 100,000 population or per 10,000 installed RAC units)
- New cooling equipment using low-GWP refrigerants (% of market)

7. Innovation and technology

- Public R&D spending on sustainable cooling
- Number of pilot or demonstration projects for innovative cooling solutions
- Deployment of novel cooling technologies (% of total cooling systems and installed capacity)

8. Passive cooling and building design

- Percentage of new buildings incorporating passive cooling design features
- Percentage of buildings with adequate thermal insulation and weatherization

- Surface area of cool roofs and green roofs installed (m² and/or % of total roof surface area)

9. Renewable energy integration

- Share of cooling energy supplied by renewable sources
- Number of solar-powered or other renewable-based cooling systems installed (% of total cooling systems)

10. Standards and labelling

- Minimum energy performance standards (MEPS) for cooling appliances implemented (Yes/No)
- Energy efficiency labelling program for cooling devices (Yes/No)
- GWP-based refrigerant limits or bans for new cooling equipment (Yes/No)

11. Urban heat resilience

- Urban tree canopy cover (% of city land area)
- Cool pavements and reflective surface coverage (% of paved or roof area)
- Public cooling centres or heat-relief shelters available
- Number of district cooling or community cooling networks in operation