



## **Sustainable Cooling Towards a Cool COP28**

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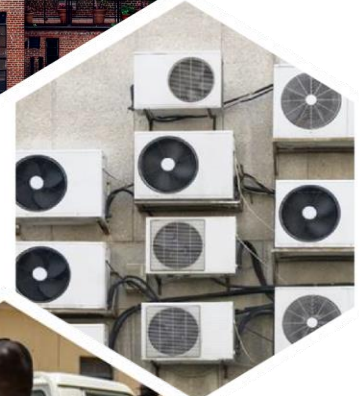
**In a warming world, cooling is not a luxury but a necessity. People, food and medicine depend on it.**

**Cooling saves lives, but it is one of the most critical blind spots in today's energy debate and one of the biggest contributors to global warming**

- The use of air conditioners and electric fans already accounts for about a fifth of the total electricity in buildings around the world – or 10% of all global electricity consumption (IEA 2022)
- Even with the phasedown of HFCs required by the Kigali Amendment to the Montreal Protocol, business as usual means emissions from refrigeration and air conditioning are expected to double by 2030 and triple by 2050, rising from 7% of global GHG emissions today (IEA 2022)
- Right now, the more we cool, the more we heat the planet.

**Fortunately, there are a lot of solutions at our fingertips.**

- Coordinated international action can help the world avoid the equivalent of 4-8 years of total annual GHG emissions by 2050 (UNEP/IEA 2020).



Launched at the First Global Conference on Synergies between the 2030 Agenda and Paris Agreement, the Cool Coalition was assembled by UNEP with the belief that a unified effort of governments, cities, businesses, and civil society that share the objective of advancing efficient, climate-friendly cooling will be more effective in bringing about change than any of us acting alone.

In September 2019, the Cool Coalition became one of the official outcomes and “Transformation Initiatives” put forward by the Executive Office of the Secretary-General for the UN Climate Action Summit in New York.





# COOL COALITION: A GLOBAL NETWORK ACTING ON COOLING

The UNEP- led **Cool Coalition** is a joint effort of over 130 partners: **governments including G20 countries**, cities, businesses, development organizations, and civil society groups. Together we are collaborating on knowledge exchange on science, data, policy, joint action , and advocacy to accelerate **sustainable cooling**:

## 26 Country Governments



## 18 International Organisations



## 34 Civil Society Organisations



## 4 Academia Stakeholders



## 30 Private Sector Stakeholders



## 10 City Governments



## KNOWLEDGE EXCHANGE:

Building an active learning community that breaks down silos and promotes cross-cutting approaches

## ACTION:

Support governments & industry in taking action to meet cooling demand in comprehensive sustainable manner, connecting to global policy processes

## ADVOCACY:

Highlighting benefits and opportunities of efficient, climate friendly cooling

## 3 outcomes are envisioned by the COP28 presidency on cooling:

1. Cooling input in the Global Climate Stocktake
2. Commitments to concrete measurable actions at COP28: pledge and support announcements
3. High-level moment at COP28: Cooling Leadership Segment (ministerial + non-state leaders) , ‘Cool ‘ day, Technology demonstrations



Inger Andersen, Executive  
Director, UNEP

“Expanding cooling will **protect the most vulnerable communities** from extreme heat, keep food fresh and vaccines safe, employees productive and digital economies viable. I am pleased that **cooling has been put on the global agenda** of the next UN Climate Change Conference.”



“We must move away from cooling systems that are **inefficient and polluting** and provide equitable access to climate-friendly cooling solutions. **We will work with the Cool Coalition and UNEP** to elevate this issue and look forward to showcasing solutions at COP28 this year.”



His Excellency Dr. Sultan Al Jaber,  
COP28 President-Designate

## The Participants in the Global Cooling Pledge:

- *Commit to* work together to collectively increase access to sustainable cooling by at least 36% by 2030, over the 2021 baseline, for those at high risk of exposure to extreme heat;
- *Commit to* work together to collectively reduce the indirect cooling emissions intensity (CO<sub>2</sub> / GWs of cooling capacity) by 50% for cooling capacity added or replaced between 2022-2030, as compared to the indirect emissions intensity of the 2021 installed cooling stock;
- *Commit to* maintaining up-to-date, transparent, and publicly available information on policies and commitments relevant to the Pledge;
- *Commit to* support existing international cooling emission reduction and cooling access initiatives, such as those of the Cool Coalition to advance global cooperation and domestic actions;
- *Commit to* support local and international collaborative research, innovation, and deployment activities to advance sustainable cooling;
- *Commit to* review progress towards the target of the Global Cooling Pledge on an annual basis until 2030 by means of a dedicated ministerial meeting at the UNFCCC Conference of the Parties;
- *Commit to* developing and releasing a national cooling action plan or strategy by 2025 with cross-sectoral domestic targets on cooling, and to reflect actions on sustainable cooling in revised development plans, climate strategies and Nationally Determined Contributions to the Paris Agreement, as appropriate;

- *Encourage* end of life replacement of cooling equipment with low-global warming potential (GWP) and high efficiency cooling technologies focused on the lowest lifecycle cost in all government buildings by 2025 in order to help prime the private sector market;
- *Encourage* an increase in the proportion of nature-based solutions for cooling in urban environments to include XX% of designated green or blue spaces, enhancing biological diversity and ecological connectivity;
- *Encourage* further domestic actions by participating countries and contributions from the private sector, development banks, financial institutions, and philanthropies to support global cooling emissions abatement and increased access to sustainable cooling;
- *Call on* other states and actors to join the Global Cooling Pledge.

***Further, the participants of the pledge agree to additionally implement at least two of the following commitments:***

- *To complete* the ratification of the Kigali Amendment to the Montreal Protocol, if not already undertaken;
- *To join* with other pledge participants to establish MEPS ambition and progress in relation to global Best Available Technology (BAT) that can then be used as a normalized guide to a race to the top in line with the Net-Zero Emissions by 2050 Scenario;
- *To establish* model building codes that incorporate market appropriate passive cooling and energy efficiency strategies by 2030;
- *To integrate* cooling in energy access planning and regulations to ensure incorporation of the impacts of growing cooling needs with plans for energy system decarbonization.

***Further, the participants of the pledge agree to additionally implement at least one of the following commitments:***

- *To support* ambitious measures and provide financial resources under the Montreal Protocol Multilateral Fund to improve energy efficiency in the cooling sector while phasing out HCFC and phasing down HFC refrigerants;
- *To invest* in innovation and deployment of RE-based cooling technologies and applications along food, health, and building value chains in rural, remote and off-grid locations to broaden the range of affordable solutions;
- *To the establishment* of national resources to aid states and cities in their evaluation and support for a transition to sustainable cooling to increase resilience against extreme heat including through the development of Heat Action Plans;
- *To allocate* resources and/or legislative support to transition the market towards a sustainable cold chain, low GWP cooling solutions, district cooling, and other technologies in a scalable manner;

**For subnational governments participants of the pledge that do not have the authority to commit to all pledge components, they commit to the following:**

- *To undertake* an inclusive, multi-stakeholder process to create and adopt a jurisdictional Heat Action Plan to identify heat risk exposure, locally relevant solutions and policies, financing needs and implementation and performance metrics.

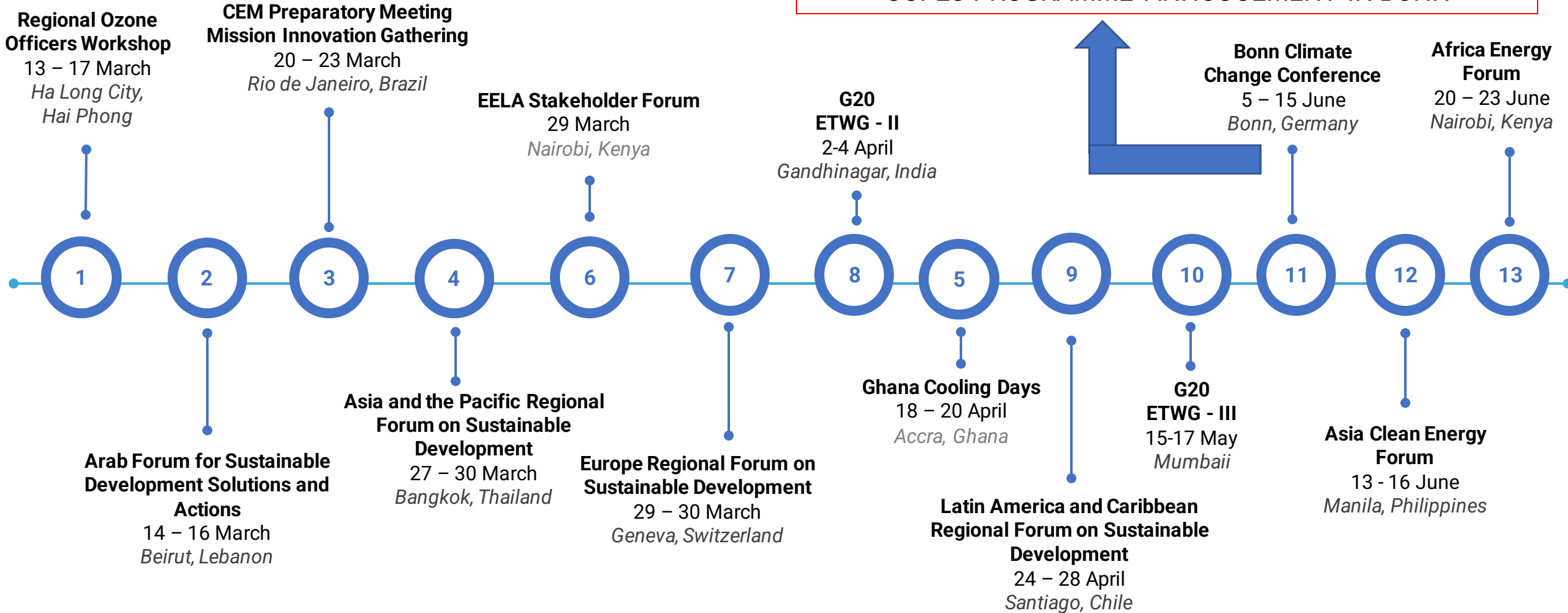


## Cooling Leaders Roundtable

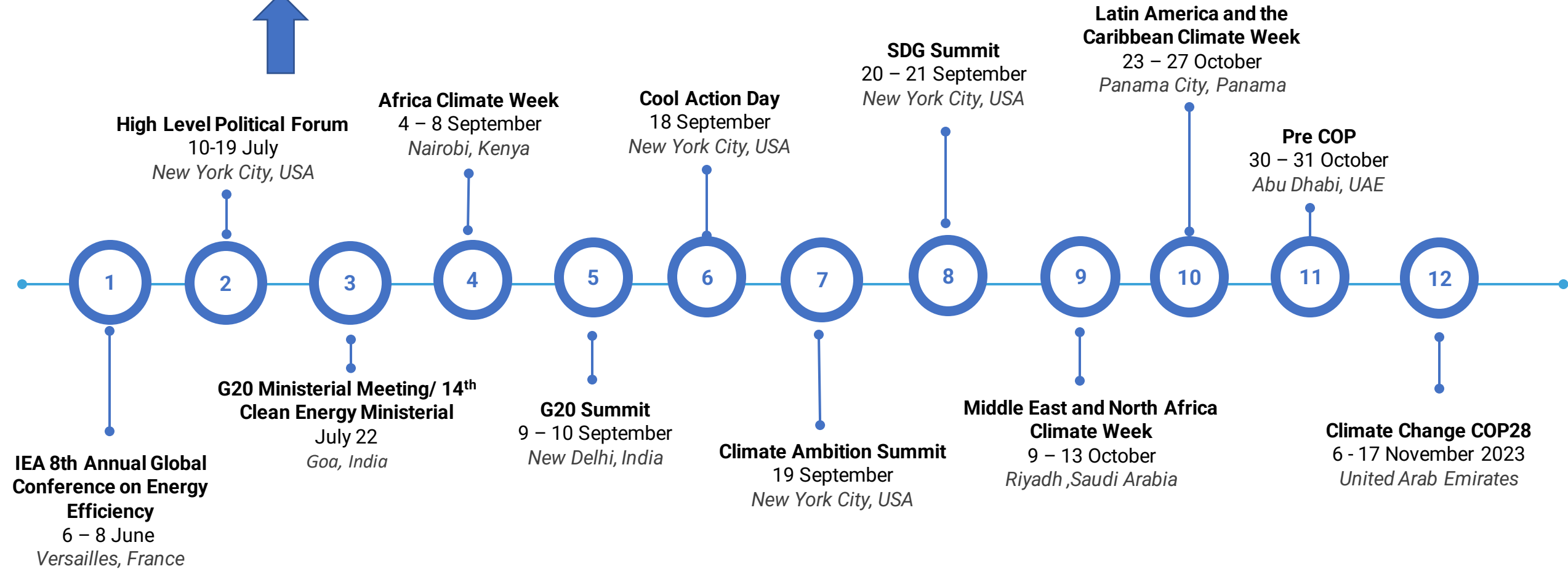


# COP28 Roadmap: Technical Consultation

UAE TO ANNOUNCE COOLING AS PART OF THEIR OFFICIAL  
COP28 PROGRAMME ANNOUNCEMENT IN BONN



UAE TO ANNOUNCE THE PLEDGE WITH COOL CHAMPIONS



POST JULY ANNOUNCEMENT – FOCUS ON COMMITMENTS TO THE PLEDGE





**Dr. Fatih Birol**  
Executive  
Director  
International  
Energy Agency



**Dan Jørgensen**  
Minister for  
Development  
Cooperation and  
Global Climate  
Policy  
Denmark



**Dr. Jeanne D'Arc  
Mujawamariya \***  
Minister of the  
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Rwanda



**HE Khadeeja  
Naseem \***  
Minister of State  
for Environment,  
Climate Change  
and Technologies  
of Maldives



**Damilola  
Ogunbiyi \***  
CEO and Special  
Representative of  
the UN SG for  
Sustainable  
Energy for All,  
and Co-Chair of  
UN-Energy



**Jürgen  
Fischer**  
President,  
Danfoss  
Climate  
Solutions



**Khalid Al  
Marzouqi**  
Chief Executive  
Officer,  
Tabreed

The Coalition is inviting new **champion governments and organizations** to support the consultations and champion the pledge

\* Under consultation



# QUESTIONS? CONTACTS US

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FOR MORE INFORMATION, VISIT: [coolcoalition.org](https://coolcoalition.org)

