



GLOBAL COOLING PLEDGE ASSEMBLY 2026

15-18 September 2026

Location: ParkRoyal on Beach Road, Singapore

Updated 09 September 2026

BACKGROUND

The [Global Cooling Pledge](#), launched at the 2023 UN Climate Change Conference (COP28), addresses extreme heat risks and sustainable cooling demand through a four-pronged strategy: passive cooling, low-energy and hybrid solutions, super-efficient technologies, and climate-friendly refrigerants to cut sectoral emissions by 68% by 2050. Reinforced at [COP29's inaugural Annual Cooling Ministerial Meeting](#), the Pledge [prioritizes equitable access to sustainable cooling to protect nations](#) from the impacts of extreme heat, while aligning with the Paris Agreement and biodiversity.

The first [Global Cooling Pledge Signatories Focal Points Meeting](#), held in June 2025, was co-hosted by Germany, Italy, and the United Arab Emirates (UAE), and co-chaired by Brazil and the UAE. It created an initial forum for practical intergovernmental cooperation among signatories on implementation, governance, and capacity-building needs.

At COP30 in Belém, Brazil, the signatory countries came together for the Second [Annual Cooling Ministerial](#), and established the Intergovernmental Committee on Cooling (IGCC) to guide and track the delivery of the Pledge and adopted the [Belém Communiqué on Extreme Heat](#). The [Beat the Heat Implementation Drive](#) and the [EPIC Facility](#) were recognized as complementary mechanisms for country-level technical assistance and subnational delivery.

With the IGCC architecture now established and key implementation mechanisms in place, the Global Cooling Pledge Assembly 2026 will convene signatories and partner countries, cities, industry, finance and philanthropy partners to take stock of progress, strengthen capacity, identify implementation priorities and connect country and city needs with technical expertise, finance and delivery partnerships. The Assembly will also showcase practical achievements and introduce initiatives and tools that can accelerate implementation, including regional roadmaps, the Manufacturing Platform and the Cool Leaders initiative.

OBJECTIVES

- **National Governments:** Showcase leadership, exchange experiences and identify partnerships, technical assistance and financing opportunities to strengthen national and multi-level cooling action and shape the global agenda towards COP31 and beyond.
- **Beat the Heat Cities:** Strengthen capacity and exchange practical experience to advance integrated urban heat resilience and sustainable cooling through peer learning, site visits and technical partnerships.
- **Cool Coalition Members:** Align technical assistance, investment, initiatives and expertise with country and city priorities, while building partnerships to accelerate implementation of the Global Cooling Pledge and Beat the Heat commitments. Elevate proven approaches across policy, finance, technology and implementation that demonstrate potential for replication and scale.

EXPECTED OUTCOMES

- A shared articulation of country and city priorities and coordinated areas of support with partners across the four areas of the workplan.
- New or strengthened partnerships matching country and city needs with technical assistance, finance and implementation support, alongside stronger peer networks and delivery capacity.

- Strategic inputs to the updated 2030 Implementation Strategy, together with an agreed process for developing the heat resilience and sustainable cooling roadmap toward COP31, COP32 and the second Global Stocktake.

APPROACH AND METHODOLOGY

The Global Cooling Pledge Assembly will be structured around developing a cohesive way forward across four interconnected areas of work, grounded in the priorities and implementation needs of countries and cities:

1. National and multilevel heat resilience and sustainable cooling planning;
2. Market Transformation: Scaling passive and transforming markets for efficient, climate-friendly cooling;
3. Mobilizing finance and investment for implementation; and
4. Developing a shared global roadmap for heat resilience and sustainable cooling.

SESSION STRUCTURE

Each session will be structured around the following common questions: what are the priority needs? What is working and what prevents scale? Who can contribute, and how? What action should follow? A rapporteur will be assigned each session to record priorities, partner contributions and next steps in a common format that will feed directly into the IGCC discussions, chair's summary, and outcome statement. Pledge-specific decisions will remain with IGCC members, while the wider Assembly will help shape the shared implementation workplan.

A FOUR DAY JOURNEY

The programme is designed to move from evidence to solutions to collective action.

- Day 1 establishes science and identifies regional, country, city barriers and needs
- Day 2 examines what works, what enables scale, who can contribute and how
- Day 3 and 4 focus on co-designing the implementation workplan, drawing on the discussions from the first two days.
- Day 4 consolidates the Assembly's conclusions into workplan, chair summary and outcome statement.

LEARNING FROM SEEING

The Assembly will include a cross-cutting Beat the Heat Training and Study Tour to support capacity building through field visits and peer exchange. The aim is to connect policy discussions with implementation approaches that can be adapted in other contexts.

NETWORKING

The Assembly will provide curated networking moments to encourage informal peer exchange and partnerships.

15 September

Day 1 – From Science to Country and City Priorities for Cooling and Heat Resilience Action

This day will bring together countries, cities, partners, and experts to explore the latest science on extreme heat and cooling, identify regional priorities, and exchange experiences on advancing implementation. The programme will conclude with a site visit showcasing urban cooling and heat resilience solutions in practice and setting the stage for the Assembly's high-level discussions and outcomes.

08:30 – 09:30 Registration

09:30 – 10:00 OPENING OF THE GLOBAL COOLING PLEDGE ASSEMBLY

The session will formally open the Global Cooling Pledge Assembly 2026, bringing together ministers, senior government representatives, international organizations, development partners, and technical experts to advance global cooperation on sustainable cooling. The session will set the tone for the four-day Assembly by reaffirming the shared commitment of Global Cooling Pledge signatories to accelerate implementation, strengthen international collaboration, and advance the work of the Intergovernmental Committee on Cooling (IGCC). Remarks from the host country, the IGCC Co-Chairs, and UNEP will highlight the importance of sustainable cooling in supporting climate mitigation, adaptation, public health, economic resilience, and sustainable development, while outlining the Assembly's objectives and expected outcomes.

MC: Dr. Graeme Maidment, UNEP and Professor London South Bank University

Speakers:

- Mr. Melvyn Ong, Permanent Secretary, Ministry for Sustainability and the Environment, Singapore
- H.E. Adalberto Maluf, National Secretary of Urban Environment, Water Resources and Environmental Quality, Ministry of Environment and Climate Change, Brazil
- Ms. Somayyah Abdulla Alyammahi, Director of Productivity and Demand Department, Ministry of Energy and Infrastructure, UAE
- Ms. Banu Aslan, Director General of Professional Services at the Ministry of Environment, Urbanization, and Climate Change, COP31 Türkiye Presidency
- Mr. Hongpeng Lei, Chief of Mitigation Branch, Climate Change Division, UNEP

10:00 – 10:30 SINGAPORE'S HEAT RESILIENCE APPROACH & BEAT THE HEAT STUDY TOUR

As a city state with a dense urban environment, heat resilience is a priority for Singapore. Its Third National Climate Change Study projects that by 2100, the country may see an increase in annual average daily mean temperature of up to 5oC; the number of high heat stress days increase to between 54 and 326 days per year; and the number of very hot days increase to between 41 and 351 days per year.

Singapore takes this issue seriously and adopts a comprehensive heat resilience strategy. This includes implementing effective cooling strategies, enhancing community resilience, and deepening our understanding of the impacts of heat. This session will provide an overview of these efforts, as well as offer delegates a preview of the key insights and site visits that will be featured in the Beat the Heat training sessions and study tour over these two days.

Speakers: Ministry for Sustainability and the Environment, Singapore

10:30 – 11:00 Coffee Break

11:00 – 12:30 EXTREME HEAT & SUSTAINABLE COOLING: EVIDENCE-BASED DECISION MAKING

The session will examine the latest evidence on extreme heat, cooling demand, health, energy systems and emerging pressures from AI and data centres. The panel will explore how heat resilience and sustainable cooling can be addressed together, including the implications for equitable access to cooling, energy security and development. The discussion will consider how evidence can inform policy, investment and international cooperation and establish a shared basis for the Assembly's discussions.

Format: Expert panel discussion

Moderator: Ms. Lily Riahi, Head of Unit, Buildings and Cooling, UNEP

Panellists:

- Dr. Winston Chow, Co-Chair of the Intergovernmental Panel on Climate Change's (IPCC) Working Group II
- Dr. Jason Lee, Director, Heat Resilience & Performance Centre, National University of Singapore
- Dr. Eleni Myrivili, Global Chief Heat Officer, UNEP
- Dr. Omar Abdelaziz, Associate Professor, The American University in Cairo

Respondents:

- Ms. Andrea Voigt, Vice President, Danfoss Group
- Mr. Noah Horowitz, Senior Director, Clean Cooling Collaborative

12:30 – 13:30 Lunch Break

13:30 – 14:30 Parallel Sessions: Regional Country & Partner Dialogues

13:30 – 14:30 AFRICA DIALOGUE: HEAT RESILIENCE AND COOLING ACTION

This regional dialogue will bring together countries, cities and partners from Africa and West Asia to discuss priorities and implementation needs for extreme heat resilience and sustainable cooling. The discussion will be structured around the four Action Areas of the Global Cooling Pledge workplan and explore opportunities to mobilize technical assistance, financing and partnerships in response to regional priorities.

Format: A presentation and discussion segment, followed by three topical breakout groups. The breakout groups will continue after the coffee break, with a report-back bringing together the key priorities, barriers and opportunities identified in each group.

Facilitators: Dr. Graeme Maidment, UNEP and Professor London South Bank University and Mr. Patrick Blake, Programme Manager, UNEP United for Efficiency

Speakers:

Countries

- Mr. Hubert Nsoh Zan, Manager, Energy Efficiency Regulation, Energy Commission, Ghana
- Ms. Malika El Bayoudi, Gaseous Emissions Department, Pollution Control Division, Directorate of Circular Economy and Pollution Control, Ministry of Energy Transition and Sustainable Development, Morocco
- Ms. Somayyah Al Yammahi, Director of Productivity and Demand Department, UAE
- Ms. Uboho Ekpo, Assistant Chief Scientific Officer, National Council on Climate Change, Nigeria
- Mr. Alain Wilmart, Directorate- General Environment, Ozone Layer and Fluor Gases Policy, Climate Change Department, Belgium
- Ms. Sarah Robinson, International Innovation Lead – Buildings and Cooling, Science and Innovation for Climate and Energy, Department of Net Zero and Energy Security, UK

Partners

- Mr. Anderson Moreira do Vale Alves, Senior Technical Advisor on Cooling, UNDP
- Ms. Tilly Lenartowicz, Senior Officer, Sustainable Cooling and Energy Efficiency, SEForALL

13:30 – 14:30 ASIA-PACIFIC DIALOGUE: HEAT RESILIENCE AND COOLING ACTION

This regional dialogue will bring together countries, cities and partners from Asia and the Pacific to discuss priorities and implementation needs for extreme heat resilience and sustainable cooling. The session will highlight opportunities for public, private, and philanthropic collaboration, including through technical assistance, financing, and partnerships to accelerate implementation across the region.

Format: Two panel discussions, followed by three regional breakout groups. The breakout groups will continue after the coffee break, with a report-back bringing together the key priorities, barriers, and opportunities identified in each group.

Facilitators: Mr. Hongpeng Lei, Chief of Mitigation Branch, Climate Change Division, UNEP and Ms. Lily Riahi, Head of Unit, Buildings and Cooling, UNEP

Speakers:

Countries

- H.E. Dr. Chhan Sophal, MLMUPC, Cambodia

- Mr. Calvin Chong, Divisional Director, Energy and Climate Policy, Ministry of Sustainability and the Environment, Singapore
- Dr. John Daniel Marcus Knight, Scientist E, Ministry of Environment, Forest and Climate Change, India
- Ms. Miruza Mohamed Deputy Director General, Ministry of Climate Change, Environment and Energy, Maldives
- Ms. Lana Rose A. Manaligod, Assistant Director, Department of Energy, Philippines
- H.E. Pak Sokharavuth, Under Secretary of State, Ministry of Environment, Cambodia

Partners

- Mr. Mark Low, Director of Design Strategy and Climate & Sustainability, lead at ISI Land, ISI Group Developer
- Mr. Shaun Seow, CEO, Philanthropy Asia Alliance (PAA)

13:30 – 14:30 LATIN AMERICA & CARIBBEAN DIALOGUE: HEAT RESILIENCE AND COOLING ACTION

This regional dialogue will bring together countries, cities and partners from Latin America and the Caribbean to discuss priorities and implementation needs for extreme heat resilience and sustainable cooling. The discussion will be structured around the four Action Areas of the Global Cooling Pledge workplan and explore opportunities to mobilize technical assistance, financing and partnerships in response to regional priorities.

Format: Country presentations, followed by an open discussion with interventions from participating countries and partners.

Moderator: Mr. Nathan Borgford-Parnell, Science Affairs Coordinator (Lead), UNEP, CCAC

Speakers:

- H.E. Adalberto Maluf, National Secretary of Urban Environment, Water Resources and Environmental Quality, Ministry of Environment and Climate Change, Brazil
- Ms. Dawn Pierre-Nathoniell, Chief Sustainable Development and Environment Officer, Sustainable Development & Environment Division, Department of Sustainable Development, Saint Lucia
- Mr. Sebastián Wainberg, Advisor, Energy Demand, Access and Efficiency Area, National Energy Directorate, Ministry of Industry, Energy and Mining, Uruguay

14:30 – 15:00 Coffee Break

15:00 – 16:30 Parallel Sessions: Regional Country & Partner Dialogues

15:00 – 16:30 AFRICA DIALOGUE: HEAT RESILIENCE AND COOLING ACTION (*continues*)

This regional dialogue will bring together countries, cities and partners from Africa and West Asia to discuss priorities and implementation needs for extreme heat resilience and sustainable cooling. The discussion will be structured around the four Action Areas of the Global Cooling Pledge workplan and explore opportunities to mobilize technical assistance, financing and partnerships in response to regional priorities.

Breakout Discussions:

Group I – National and Multi-level Cooling Action

Facilitator: Mr. Andreas Hermelink, Director, Cool Up Programme, Guidehouse

Group II – Market Transformation: Scaling passive and transforming markets for efficient, climate-friendly cooling

Facilitator: Ms. Tilly Lenartowicz, Senior Officer, Sustainable Cooling and Energy Efficiency, SEForALL and Mr. Patrick Blake, Programme Manager, UNEP United for Efficiency

Group III – Mobilizing finance and investment for implementation

Facilitator: Mr. Rashane Sala-Ngarm, Senior Officer for Regional Partnerships and Cooperation, AFD and Mr. Jonathan Coony, Global Lead for Green Competitiveness, Finance, Competitiveness & Innovation, World Bank Group

15:00 – 16:30 ASIA-PACIFIC DIALOGUE: HEAT RESILIENCE AND COOLING ACTION (*continues*)

This regional dialogue will bring together countries, cities and partners from Asia and the Pacific to discuss priorities and implementation needs for extreme heat resilience and sustainable cooling. The session will highlight opportunities for public, private and philanthropic collaboration, including through technical assistance, financing and partnerships to accelerate implementation across the region.

Breakout Discussions:

Group I – Implementing the ASEAN Passive and EE roadmap and testing passive and active technologies in public buildings

Facilitators: Ms. Claire Oei, Climate and Nature Lead at the Philanthropy Asia Alliance (PAA), Temasek and Mr. Rio Jon Piter Silitonga, Senior Officer, for Energy Efficiency, ASEAN Centre for Energy (ACE)

Group II – Scaling heat-resilient public and social infrastructure in South and Central Asia

Facilitator: Mr. Cynan Houghton, Deputy Regional Program Director, Tara Climate Foundation

Group III – Scaling Heat Resilience in Schools in Indian Ocean and Pacific SIDS

Facilitator: Mr. Alejandro Garcia Macias, Cities and Climate Change Technical Advisor, UN ESCAP

15:00 – 16:30 BEAT THE HEAT TRAINING: URBAN HEAT PLANNING AND INTEGRATION INTO POLICY FRAMEWORKS

This session will focus on how cities and subnational entities can integrate extreme heat into urban planning, climate adaptation and policy frameworks. It will showcase practical tools, data and city experiences to support evidence-based heat planning and resilience.

Facilitator: Dr. Eleni Myrivili, Global Chief Heat Officer, UNEP

Speakers:

- Mr. Alok K Singh, Global Lead, Built Environment Decarbonization, World Bank Group
- Mr. Rajroshan Sawhney, Google
- Ms. Iphigenia Keramitsoglou, National Observatory of Athens
- Mr. Ander Zozaya, Lead Project Management and Research Translation, Singapore-ETH Centre (SEC)
- Mr. Md Tanvir Hasan Rezaul, Cox's Bazar Development Authority (CoxDA), Bangladesh

16:30 – 17:00 Transportation to site visit

Participants gather at the meeting point (bus bay). Transport is arranged as part of the tour.

17:00 – 18:15 SITE VISIT: HEAT RESILIENCE & PERFORMANCE CENTRE (HRPC), YONG LOO LIN SCHOOL OF MEDICINE, NATIONAL UNIVERSITY OF SINGAPORE (option A)

Registration is required in advance. Places are limited and may close once capacity is reached.

The Heat Resilience & Performance Centre (HRPC) is a globally connected, first-class thermal research centre based at the NUS Yong Loo Lin School of Medicine, focused on helping humans thrive in a warming world. Participants can experience simulated future climate conditions, explore how heat may influence human performance and decision-making, and discover the sophisticated tools and technologies used in heat stress research. Participants will also have the opportunity to try immersive virtual reality demonstrations, learn about innovative cooling interventions, and see how research findings are being translated into real-world solutions, including improving the living conditions of migrant workers through affordable cooling technologies.

17:00 – 18:15 SITE VISIT: BCA BRADDELL CAMPUS (option B)

Registration is required in advance. Places are limited and may close once capacity is reached.

The visit to BCA Braddell Campus will showcase the campus as a Built Environment Innovation Hub (BEIH), featuring exemplary sustainable buildings including Positive Energy, Zero Energy, and Super-Low Energy Buildings. The campus also serves as a live test-bed for Alternative Cooling Technologies (ACTs). ACTs are cooling solutions that deliver more than 20% energy savings over conventional air-conditioning systems, directly addressing ACMV which accounts for around 50% of a building's energy consumption. BCA promotes ACT adoption through technical references, workshops, and leading by example through the GreenGov.SG initiative. The walk-about will cover the ZEB Plus building, featuring hybrid and radiant cooling for office use, and Block D, where passive displacement cooling has been deployed in seminar spaces, meeting rooms, and a multi-purpose hall.

18:15 – 18:45 Transportation to the hotel

16 September

Day 2 – From Priorities to Solutions, Partnerships and Scale

This day will bring together countries, cities, partners, and experts to explore the latest science on extreme heat and cooling, identify regional priorities, and exchange experiences on advancing implementation. The programme will conclude with a site visit showcasing urban cooling and heat resilience solutions in practice and setting the stage for the Assembly's high-level discussions and outcomes.

08:30 – 08:45 WORLD OZONE DAY OPENING

This segment will open Day 2 and reflect on the achievements of the Montreal Protocol, commemorating the World Ozone Day and discussing the next phase of action linking refrigerant transition, energy efficiency and sustainable cooling.

09:00 – 10:30 Parallel Sessions: Implementation Roundtables and Beat the Heat Training

09:00 – 10:30 MARKET TRANSFORMATION: EFFICIENT, CLIMATE-FRIENDLY COOLING APPLIANCES

This roundtable, convened by United for Efficiency (U4E), brings together governments, industry, technical partners, financial institutions, and development organizations to exchange practical approaches for scaling efficient cooling appliances and accelerating market transformation. Discussion will span policy, market intelligence, compliance and enforcement, procurement, incentives, finance, and technology deployment, drawing on successful approaches and tools from different regions. Countries will share their market transformation priorities and implementation challenges, including those raised through EPIC requests, connecting these needs with relevant partner expertise and support. The session aims to surface barriers and opportunities across the market transformation landscape and identify concrete, scalable approaches countries can act on. It ultimately seeks to strengthen collaboration between countries and partners to advance efficiency-related Global Cooling Pledge commitments.

Facilitator: Mr. Patrick Blake, Programme Manager, UNEP-United for Efficiency

Speakers:

Countries

- Dr. Daniel Collin G. Jornales, Chief Science Research Specialist, Energy Utilization Management Bureau, Department of Energy, Philippines
- Mr. Hubert Nsoh Zan, Manager of Energy Efficiency Inspection & Enforcement, Energy Commission of Ghana
- Ms. Li Xiaoyan, Senior Programme Officer of the Montreal Protocol Division, Foreign Environmental Cooperation Center of the Ministry of Ecology and Environment, China (TBC)
- Mr. Michael Ivenso, Director of Energy, Transportation, and Infrastructure, National Council on Climate Change of Nigeria
- Mr. Pei Chen NG, Principal Engineer, Carbon Mitigation Division, National Environment Agency, Singapore

Partners

- Dr. Baolong Wang, Secretary of IIR Commission E1 (Air Conditioning) and Co-Chairperson for the IIR Working Group on Dehumidification in Air Conditioning, International Institute of Refrigeration (IIR)
- Mr. Kazuma Koyama, Senior Manager, Daikin
- Mr. Noah Horowitz, Senior Director, Clean Cooling Collaborative
- Ms. Stephanie Egger Haysmith, Montreal Protocol (Ozone) Secretariat to commemorate the Ozone Day
- Dr. Steven Zeng, Director, China Program, CLASP

09:00 – 10:30 NATIONAL AND MULTI-LEVEL COOLING ACTION: FROM PLANS TO IMPLEMENTATION AND INVESTMENT

The session will showcase country experiences in integrating cooling priorities into NCAPs and moving from planning to implementation and updating. It will also introduce the Cooling Financial Assessment Framework (CFAF) as a practical methodology to assess investment needs and develop bankable cooling roadmaps. A moderated discussion will explore key enablers and challenges around prioritisation, governance, financing, and monitoring and enforcement. The session will facilitate connections between countries with active implementation needs and technical, financial, and delivery partners. The discussion will conclude with concrete follow-up actions, including EPIC implementation support, CFAF piloting, SIDS support, and integrating NCAP priorities into NDC 3.0.

Facilitator: Dr. Omar Abdelaziz, Associate Professor, The American University in Cairo

Speakers:

Countries

- H.E. Adalberto Maluf, National Secretary of Urban Environment, Water Resources and Environmental Quality, Ministry of Environment and Climate Change, Brazil
- Dr. John Daniel Marcus Knight, Scientist E, Ministry of Environment, Forest and Climate Change, India
- Mr. Volkan Polat, Head of Department at the Climate Change Directorate, Ministry of Environment, Urbanisation and Climate Change, Türkiye
- Denmark (TBC)

Partners

- Mr. Alok K Singh, Global Lead, Built Environment Decarbonization, World Bank Group
- Mr. Anderson Moreira do Vale Alves, Senior Technical Advisor on Cooling, UNDP
- Mr. Andreas Hermelink, Director, Cool Up Programme, Guidehouse
- Ms. Anjali Mahendra, Director, Global Research, WRI Ross Center for Sustainable Cities
- Ms. Devika Panse, Sustainable Cooling Analyst, SEForALL
- Mr. Mostafa Hasaneen, Senior Sustainable Energy Expert, RCREEE
- Ms. Wei Han, Program Director, Energy Foundation China

09:00 – 10:30 BEAT THE HEAT TRAINING: IMPLEMENTING NATURE-BASED PASSIVE COOLING SOLUTIONS

This session explores how to reduce heat exposure and improve thermal comfort through nature-based solutions and practical urban design and passive cooling solutions.

Facilitator: Ms. Srinidhi Ravishankar, Cooling Policy Specialist, UNEP

Speakers:

- Ms. Dimple Rana, Heat Resilience Leader, Arup
- Dr. Bakan Jagadhish Sudhakar, CEO, Tamil Nadu Green Climate Company, State of Tamil Nadu State, India (TBC)
- Ms. Jia Xin Chum, Director of Landscape, APAC, Henning Larsen, Ramboll Group
- Ms. Maricris F. Veloso, Officer in Charge - Education Affairs Unit, Quezon City, the Philippines

10:30 – 11:00 Coffee Break

11:00 – 12:30 Parallel Sessions: Implementation Roundtables and Beat the Heat Training

11:00 – 12:30 MARKET TRANSFORMATION: SCALING PASSIVE COOLING IN BUILDINGS

The session will showcase practical examples of passive cooling and cooling demand reduction across building, neighbourhood, and city scales. It will draw on country and city experiences to identify common implementation barriers and lessons for scaling passive cooling solutions. Partners will highlight available technical assistance, tools, capacity-building, and financing opportunities to support implementation. An interactive exchange will connect countries and cities with technical, financial, and implementation partners around priority passive cooling needs. The session will conclude with concrete commitments and follow-up actions to advance priority requests and accelerate delivery of Global Cooling Pledge commitments.

Facilitator: Ms. Gulnara Roll, Chief of Sectoral Transition Section, UNEP and Mr. Gennai Kamata, Associate Programme Officer, Buildings and Urban Energy, UNEP, GlobalABC

Speakers:

Countries and States

- Mr. Muhammad Nur Fajri Alfata, Ministry of Public Works, the Republic of Indonesia
- Mr. Sebastián Wainberg, Advisor, Energy Demand, Access and Efficiency Area, National Energy Directorate, Ministry of Industry, Energy and Mining, Uruguay
- Mr. Bakan Jagadhish Sudhakar, Tamil Nadu, India - Department of Environment, Climate Change and Forests

Partners

- Mr. Akash Goenka, Senior Specialist, Buildings & Urban Cooling, NRDC
- Mr. Alok K Singh, Global Lead, Built Environment Decarbonization, World Bank Group
- Mr. Lem Yang Lim, Senior Director, Singapore Green Building Council
- Mr. Rashane Sala-Ngarm, Senior Officer for Regional Partnerships and Cooperation, AFD
- Mr. Rio Jon Piter Silitonga, Research Analyst for Energy Efficiency, ASEAN Centre for Energy (ACE)
- Mr. Satish Kumar, Director, Alliance for Energy Efficient Economy (AEEE)
- Mr. Shiro Akiyama, General Manager, SPACECOOL

11:00 – 12:30 MARKET TRANSFORMATION: SUSTAINABLE COOLING, CLEAN ENERGY AND DEMAND FLEXIBILITY

This session will showcase practical approaches to integrating cooling with energy systems, including renewable-powered cooling, district cooling, demand-side flexibility, and innovative service-based models. It will draw on country and industry experience to identify key financing, regulatory, institutional, market, and infrastructure barriers to scaling integrated cooling solutions. Governments, utilities, industry, financial institutions, and implementation partners will explore opportunities for collaboration and investment. A moderated exchange will examine how integrated planning, enabling policies, and innovative business models can deliver efficient, resilient, and affordable cooling. The session will conclude by identifying partnerships, technical assistance opportunities, and concrete follow-up actions to advance cooling and energy integration priorities.

Facilitators: Mr. Dimitris Karamitsos, Senior Sustainable Finance Specialist, BASE and Mr. Luis Munuera, Programme Lead on Energy, UNEP

Speakers:

Countries

- Mr. Deepak Sakaria, Energy Transition Advisor, Ministry of Energy & Infrastructure UAE
- Ms. Nawsheen Sooruth, Engineer/Senior Engineer, Energy Efficiency Management Office, Mauritius
- Ms. Stela Drucioc, Head, Air and Climate Policy Directorate, Ministry of Environment, Republic of Moldova
- Ministry of Power, India (TBC)

Partners

- Ms. Andrea Voigt, Vice-President, Public & Industry Affairs, Sustainability, Communications and Interim Head of Corporate Public Affairs, Danfoss
- Mr. Coenrad Ehlers, General Manager, Energy Partners
- Dr. Graeme Maidment, UNEP and Professor London South Bank University
- Mr. Jonathan Coony, Global Lead for Green Competitiveness, Finance, Competitiveness & Innovation, World Bank Group
- Mr. Mostafa Hasaneen, Senior Sustainable Energy Expert, RCREEE
- Mr. Simon Benmarraze, Head of Energy Planning and Modelling, IRENA
- Ms. Violet Chen, Director, Industry Development, Energy Market Authority (EMA), Singapore

11:00 – 12:30 BEAT THE HEAT TRAINING: FINANCING AND IMPLEMENTING URBAN HEAT AND COOLING RESILIENCE

This session explores the financing opportunities and investment approaches for heat resilience initiatives.

Facilitator: Ms. Elsa Lefevre, Programme Manager, Beat the Heat, UNEP

Speakers:

- Mr. Hamza Abdullah, Analyst, Urban Climate Finance, CCFLA
- Ms. Nicolette Loo, Senior Planner, Urban Redevelopment Authority (URA), Singapore
- Ms. Anjali Mahendra, Director of Global Research, WRI Ross Center for Sustainable Cities
- Dr. Joy Shrikant Thakur, Scientist, Environment and Climate Change Department, State of Maharashtra, India
- Ms. Christina Muniandy, Urban Climate Resilience Manager, C40 Cities

- Mr. Benjamin Hickman, Programme Manager, Be Cool, UNEP

12:30 – 13:30 Lunch Break

13:30 – 14:00 Transportation to site visit

Participants gather at the meeting point (bus bay). Transport is provided as one continuous tour: PARKROYAL venue → Punggol Digital District → Sentosa → hotel. There is no separate bus service from Punggol to the hotel or from the hotel to Sentosa.

14:00 – 15:30 SITE VISIT: PUNGGOL DIGITAL DISTRICT

Registration is required in advance. Places are limited and may close once capacity is reached.

Punggol Digital District (PDD) is Singapore's first smart and sustainable district — a fully operational, 50-hectare urban environment where sustainability is built into everyday life. Designed by JTC, PDD integrates passive and active design strategies such as natural ventilation, an integrated district cooling system, and strategic incorporation of greenery. Its Open Digital Platform connects over 20,000 sensors district-wide, enabling AI-driven energy optimisation and real-world test bedding of smart city and sustainable solutions. The visit to PDD will bring you through these features up close to experiencing these sustainable practices in action.

15:30 – 16:00 Transportation from Punggol Digital District to Sentosa

Following the Punggol site visit, the same tour bus will take participants directly to Sentosa. There is no return transport to the hotel between the two site visits.

16:00 – 17:30 SITE VISIT: SENTOSA

Registration is required in advance. Places are limited and may close once capacity is reached.

Discover how Sentosa is building climate resilience through sustainable design, nature-based solutions, and innovative cooling technologies. This guided walking tour will take delegates through WEAVE at Resorts World Sentosa, the Singapore Oceanarium Research and Learning Centre, Sentosa Sensoryscape, Central Beach Bazaar, and the MicroForest, showcasing how architecture, landscape design, biodiversity, and cooling strategies are thoughtfully integrated to enhance guest comfort and experience. Delegates will gain insights into Sentosa's vision of becoming a "cool oasis" and Singapore's broader approach to mitigating urban heat and creating more liveable, sustainable, and heat-resilient destination.

17:30 – 18:00 Transportation to the hotel

17 September

Day 3 – High-Level Segment & IGCC Meeting: Co-designing the 2027-2028 Implementation Workplan

Day 3 will translate the evidence, priorities and partner offers from Days 1 and 2 into a cohesive implementation workplan. Government-led sessions will focus on two of the four work areas: national and multilevel action and market transformation for passive and active cooling.

09:00 – 09:15 HIGH-LEVEL OPENING FROM THE HOST

Opening remarks from the Government of Singapore and UNEP, setting the direction for Day 3 and the transition from evidence and priorities to implementation.

MC: Dr. Graeme Maidment, UNEP and Professor London South Bank University

Speakers:

- H.E. Grace Fu Hai Yien, Minister for Sustainability and Environment, Singapore
- Mr. Martin Krause, Director, Climate Change Division, UNEP

09:15 – 10:05 COOL LEADERS AWARDS CEREMONY

Formal presentation of the inaugural Cool Leaders recognition by UNEP, followed by brief remarks from each honouree. priorities to implementation.

Presenter: Mr. Martin Krause, Director, Climate Change Division, UNEP

Official group photo and media moment

Fireside Chat with the award recipients

Moderator: H.E. Adalberto Maluf, National Secretary for Urban Environment, Water, Resources and Environmental Quality, Ministry of Environment and Climate Change, Brazil (Co-Chair)

10:05 – 10:30 REPORT BACK: PROGRESS AND VISION

The session will reflect on key discussions, priorities and opportunities emerging from Days 1 and 2, and how these can inform the Assembly's implementation agenda and the workplan areas that will be discussed in the following open IGCC meeting.

Special Remarks from COP31 Presidency: Singapore to New York to Antalya

- Ms. Banu Aslan, Director General of Professional Services at the Ministry of Environment, Urbanization, and Climate Change, COP31 Türkiye Presidency
- H.E. Hiroshi Ishikawa, Ambassador Extraordinary and Plenipotentiary of Japan to Singapore, highlighting Japan's progress on the Global Cooling Pledge and next steps in advancing sustainable cooling and heat resilience toward COP31

Moderated Panel: Ms. Lily Riahi, Head, Buildings and Cooling Unit, UNEP

- H.E. Adalberto Maluf, National Secretary for Urban Environment, Water, Resources and Environmental Quality, Ministry of Environment and Climate Change, Brazil (Co-Chair)
- H.E. Eng. Sharif Al Olama, Undersecretary for the Energy and Petroleum Sector, Ministry of Energy and Infrastructure, United Arab Emirates (Co-Chair)
- Mr. Shaun Seow, Chief Executive Officer, Philanthropy Asia Alliance

10:30 – 11:00 Coffee Break

11:00 – 11:30 GLOBAL COOLING PLEDGE IMPLEMENTATION MECHANISMS

The session will introduce the key mechanisms supporting implementation of the Global Cooling Pledge, including the EPIC Facility, country dialogues, Beat the Heat Implementation Drive and Manufacturing Platform. It will show how these mechanisms support countries, cities and partners in advancing action across the four Action Areas.

Speakers:

- Mr. Hongpeng Lei, Chief, Mitigation Branch Chief

- Ms. Myriem Touhami, Head of Unit, Sustainable Investments, UNEP

11:30 – 12:30 IGCC SESSION 1 - NATIONAL AND MULTI-LEVEL COOLING ACTION: PLANS FOR COORDINATED DELIVERY

The session will explore national cooling action plans and investment roadmaps, including how to strengthen implementation, connect national and subnational action through Beat the Heat, and link cooling priorities with NDCs, investment roadmaps and other national frameworks. Countries will share key successes, lessons learned and implementation challenges, and identify priorities for collaboration and delivery, including governance, financing, and regional approaches. The session will invite countries and partners to express their interest in working with UNEP to co-design and advance this action area.

Format: Facilitated country and partner discussion, with countries invited to raise their country placards to request the floor, followed by partner interventions.

Facilitators: Ms. Gulnara Roll, Head of Sectoral Transition Section, UNEP and Mr. Alok K Singh, Global Lead, Built Environment Decarbonization, World Bank Group

Cool Spotlight: Dr. John Daniel Marcus Knight, Scientist E, Ministry of Environment, Forest and Climate Change, India

Facilitated discussion with countries, cities and partners

Guiding Questions:

- What progress has been made in developing and implementing National Cooling Action Plans, and what are the key successes, lessons learned and challenges, including governance, monitoring and evaluation, and financing?
- How can NCAPs and cooling investment roadmaps be better integrated with NDCs, KIPs, NAPs and other national planning frameworks and subnational action?
- What are the priorities for collaboration and delivery, and which countries and partners are interested in working with UNEP to co-design and advance implementation under this action area?

12:30 – 13:30 Lunch Break

13:30 – 15:00 IGCC SESSION 2A: MARKET TRANSFORMATION AND ALIGNMENT WITH THE KIGALI AMENDMENT TO SCALE EFFICIENT COOLING APPLIANCES AND EQUIPMENT

The session will explore market transformation for efficient cooling appliances and equipment, including the role of policy, finance, procurement, industry engagement and capacity building. Countries will share successes, lessons learned and delivery challenges from implementation of roundtables and trainings, and discuss mechanisms to connect demand and supply, including the EPIC Facility and Manufacturing Platform. The session will invite countries and partners to express their interest in working with UNEP to co-design and advance this action area.

Format: Facilitated country and partner discussion, with countries invited to raise their country placards to request the floor, followed by partner interventions.

Facilitators: Mr. Martin Krause, Director, Climate Change Division, UNEP and Ms. Avipsa Mahapatra, Climate Campaign Director, Environmental Investigation Agency, US

Cool Spotlight: Ms. Li Xiaoyan, Senior Programme Officer of the Montreal Protocol Division, Foreign Environmental Cooperation Center of the Ministry of Ecology and Environment, China

Facilitated discussion with countries, cities and partners

Guiding Questions:

- What progress has been made in accelerating the uptake of super-efficient, low- and ultra-low-GWP appliances and equipment and LRM, and what policy, finance, procurement, industry and capacity-building measures are needed?
- How can the Manufacturing Platform better connect demand and supply and support industry engagement, including through MEPS, procurement and industry commitments?
- What support and partnerships are needed, and which countries and partners are interested in working with UNEP to co-design and advance implementation under this action area?

15:00 – 15:30 Coffee Break

15:30 – 17:00 IGCC SESSION 2B: MARKET TRANSFORMATION TO SCALE PASSIVE COOLING SOLUTIONS

The session will explore how to create the enabling conditions for scaling passive cooling through building codes, planning and procurement, finance, capacity building and demonstration of solutions. Countries will share successes, lessons learned and delivery challenges from implementation roundtables and trainings, and discuss approaches to strengthen the passive cooling ecosystem, including engagement with governments, cities, real estate and other market actors. The session will invite countries and partners to express their interest in working with UNEP to co-design and advance this action area.

Format: Facilitated country and partner discussion, with countries invited to raise their country placards to request the floor, followed by partner interventions.

Facilitators: Mr. Benjamin Hickman, Regional Programme Lead, Be Cool, UNEP and Mr. Satish Kumar, President and Executive Director, Alliance for an Energy Efficient Economy (AEEE)

Cool Spotlight: Mr. Peter Rimba Maneno, Deputy Director Climate Change, Ministry of Environment, Climate Change and Forestry, Kenya

Facilitated discussion with countries, cities and partners

Guiding Questions:

- What are the main challenges and enabling conditions for scaling passive cooling through policy, planning, building codes, procurement and finance, and how can governments, cities, real estate and other market actors work together to strengthen the passive cooling ecosystem?
- How can passive and active cooling approaches be integrated to improve the resilience and efficiency of critical infrastructure?
- What are the priorities for collaboration and delivery, and which countries and partners are interested in working with UNEP to co-design and advance implementation under this action area?

17:00 – 17:15 Day 3 – Wrap Up

Speakers:

- Mr. Martin Krause, Director, Climate Change Division, UNEP
- Ms. Banu Aslan, Director General of Professional Services at the Ministry of Environment, Urbanization, and Climate Change, COP31 Türkiye Presidency

18:00 – 21:00 Reception: Danfoss Sustainability Technology Center (STC)

Visit to Kaer followed by a tour of the Danfoss Sustainability Technology Center (STC) and a networking reception.

18 September

Day 4 – Shaping the Next Phase of Cooling Action

The final day will focus on shaping the next phase of Global Cooling Pledge implementation, bringing together finance, heat resilience and sustainable cooling into a forward agenda for action. The day will conclude by setting the path from Singapore towards COP31 and the next phase of collective delivery.

09:00 – 09:25 ANNOUNCEMENT OF THE GEF-8 NATURE FOR COOLING CHALLENGE PROJECT

The day will begin with the announcement of the GEF-8 Nature for Cooling Challenge Project, highlighting a new financing opportunity to support sustainable cooling and heat resilience in three countries – Brazil, Cambodia and Côte d'Ivoire.

Facilitators: Mr. Gennai Kamata, Programme Manager, Nature for Cooling Challenge, UNEP and Mr. Manoj Kumar Muthumanickam, Programme Management Officer, UNEP

Speakers:

- H.E. Adalberto Maluf, National Secretary for Urban Environment, Water, Resources and Environmental Quality, Ministry of Environment and Climate Change, Brazil
- H.E. Pak Sokharavuth, Under Secretary of State, Ministry of Environment, Cambodia
- Mr. Mollé Bian Donatien, Director of Studies, Materials and Architecture, Ministry of Urban Planning, Housing and Living Environment, Côte d'Ivoire

09:25 – 10:30 IGCC SESSION 3 – MOBILIZING FINANCE FOR HEAT RESILIENCE AND SUSTAINABLE COOLING

The session will explore access to climate finance for cooling and heat resilience, including GEF, Adaptation Fund and emerging financing opportunities under Article 6.2 of the Paris Agreement. Countries will share successful financing approaches and discuss key barriers and opportunities to mobilize and scale finance for cooling and heat resilience. The session will invite countries and partners to express interest in working with UNEP to develop financing approaches and partnerships to advance this action area.

Format: Facilitated country and partner discussion, with countries invited to raise their country placards to request the floor, followed by partner interventions.

Facilitators: Ms. Hanane Hafraoui, Programme Lead, Platforms and Country Programmes, UNEP and GIZ

Facilitated discussion with countries, cities and partners

Guiding Questions:

- What are the main barriers to mobilizing finance for cooling and heat resilience, and what business models could help make these investments more viable and attractive to investors?
- What financing approaches, including Paris Agreement Article 6.2 and alignment with the GEF, Adaptation Fund, among others, can help scale investment in cooling and heat resilience?
- What are the priorities for collaboration and delivery, and which countries and partners are interested in working with UNEP to develop financing approaches and partnerships under this action area?

10:30 – 11:00 Coffee Break

11:00 – 12:30 IGCC SESSION 4 – A HEAT RESILIENCE ROADMAP FOR NATIONAL AND GLOBAL ACTION

The session will explore how extreme heat and sustainable cooling can be addressed through more integrated approaches, drawing on country experiences, successes and lessons learned. Participants will discuss how to strengthen national and global action on heat resilience, connect with existing frameworks and international processes, and advance shared priorities such as the Belém Indicators, NAPs and the Global Stocktake. The session will invite countries and partners to express interest in working together to co-design a Global Heat Resilience Roadmap and advance this action area.

Format: Facilitated country and partner discussion, with countries invited to raise their country placards to request the floor, followed by partner interventions.

Facilitators: Ms. Eleni Myrivili, Global Chief Heat Officer, UNEP and Mr. Amit Prothi, Director General, Coalition for Disaster Resilient Infrastructure

Cool Spotlight: Mr. Jiro Hiratsuka, Director, Ministry of the Environment, Japan

Facilitated discussion with countries, cities and partners

Guiding Questions:

- How are extreme heat and sustainable cooling interconnected, and what does this mean for how we design and implement heat resilience and cooling action?
- What are the key successes, lessons and approaches from countries and cities in strengthening heat resilience and advancing sustainable cooling?
- How can national and global action on heat resilience and sustainable cooling be strengthened, including through frameworks such as the Belém Indicators and NAPs, and international processes such as the Global Stocktake?

12:30 – 13:30 Lunch Break

13:30 – 14:00 ELEVATING HEAT RESILIENCE AND SUSTAINABLE COOLING IN GLOBAL CLIMATE AGENDA

A high-level conversation with the COP Troika on advancing heat resilience and sustainable cooling in the global climate agenda, including opportunities to strengthen political momentum, connect with the UNFCCC process and carry the Assembly's priorities towards COP31 and beyond.

Format: Facilitated fireside conversation

Moderator: Mr. Calvin Chong, Divisional Director, Energy and Climate Policy Division, Ministry for Sustainability and Environment, Singapore

Speaker:

- Ms. Alice de Moraes Amorim Vogas, Program Director, COP30 Brazil Presidency
- Mr. Volkan Polat, Head of Department at the Climate Change Directorate, Ministry of Environment, Urbanisation and Climate Change, Türkiye
- Ms. Simret Terefe Leggese, Lead, Environment and Climate Change Policy and Strategy and Planning Division, Ministry of Planning and Development, Ethiopia

14:00 – 15:00 IGCC SESSION 5 - GLOBAL COOLING PLEDGE ASSEMBLY OUTCOMES AND 2030 STRATEGY

The session will bring together the key outcomes and priorities emerging from the Assembly, including reflections from the previous two days and the Singapore Assembly outcomes. Participants will hear new announcements and partnership opportunities, and discuss the road to COP, including engagement with the COP Troika. The session will conclude with shared priorities and forward actions towards 2030 and COP31 and COP32.

Format: Closing Plenary

Facilitator: Mr. Martin Krause, Director, Climate Change Division, UNEP

Speakers:

- H.E. Adalberto Maluf, National Secretary for Urban Environment, Water, Resources and Environmental Quality, Ministry of Environment and Climate Change, Brazil (Co-Chair)
- H.E. Eng. Sharif Al Olama, Undersecretary for the Energy and Petroleum Sector, Ministry of Energy and Infrastructure, United Arab Emirates (Co-Chair)
- Mr. Noah Horowitz, Senior Director, Clean Cooling Collaborative
- Ms. Tilly Lenartowicz, Senior Officer, Sustainable Cooling and Energy Efficiency, Sustainable Energy for All
- Temasek Foundation (TBC)

15:00 – 16:00 Coffee Break

16:00 – 17:00 Parallel Sessions: Masterclasses

16:00 – 17:00 COOLING AS A SERVICE (CAAS), DISTRICT COOLING AND DATA CENTER COOLING

This masterclass segment will consist of a sequence of three short sessions led by BASE and Danfoss, covering Cooling as a Service (CaaS), district cooling and data centres.

16:00 – 17:00 COOLING EMISSIONS – HOW TO MEASURE THEIR IMPACTS AND PLAN MITIGATING AND ADAPTATION INTERVENTIONS

This session illustrates the potential for a new modelling resource to support Pledge countries in understanding their emissions and energy consumption and planning mitigating interventions across different applications. This session will briefly introduce IMPACT-F, a new Integrated Modelling Platform for Assessing Climate Targets for F-gases, funded by the EU. This builds upon the established HFC Outlook Model, which provided the modelling projections underlying the Global Cooling Watch 2025 report and its Sustainable Cooling Pathway to net-zero cooling emissions by 2050. IMPACT-F will evaluate the global use of F-Gases and alternatives and estimate the energy consumption of associated equipment and systems, providing evidence and pathways to support the development of international and national policy measures to reduce GHG emissions. It will enable Montreal Protocol (MP) Parties to track their progress in meeting the targets of the Kigali Amendment (KA), as well as to plan what actions are needed to outperform these targets.

16:00 – 17:00 DIGITAL URBAN CLIMATE TWIN (DUCT) FOR HEAT RISK MODELLING

This session will showcase Singapore's Digital Urban Climate Twin (DUCT), a city-scale digital tool for modelling heat risk and exploring the impacts of buildings, transport and industry on urban heat. Participants will see how DUCT can be used to test "what-if" scenarios and generate insights to support urban planning and heat resilience decision-making.

18:30 – 21:00 High-Level Reception
Hosted by the H.E. Grace Fu, Minister for Sustainability and Environment, Singapore