

Technical Expert Meetings on Mitigation TEM-M 2020

“Human settlements: sustainable low-emission housing and building solutions. Technologies and design for buildings, housing and construction”

1- Cool buildings for all

Cooling demand is on the rise, especially in hot regions in developing countries. If we do not prepare for this predictable crisis, which will hit most vulnerable people hardest, we will face unprecedented impacts for people’s health and economy’s productivity. To meet this emerging challenge, an approach combining *avoid-shift-improve* is most effective: *Avoiding* cooling needs through effective building design such as cool and green roofs, and effective insulation, adapted urban design, considering solutions from vernacular architecture, to building materials; *shift* though shifting power sources to district cooling; and *improve* through more efficient appliances. In collaboration with the [Cool Coalition](#), the session will also look at preparedness for heatwaves and a health impacts and will address the following points:

- Reviewing trends: How have cooling trends developed and what is the status quo?
- Reviewing solutions: Which solutions have worked in which context (avoid-shift-improve, for example passive buildings design, change in urban form to reduce cooling need, incentives for retrofits and district energy)? Which innovations are awaiting uptake? What are the game changers?
- Reviewing barriers: How have barriers been overcome?
- Going to scale: How can we bring solutions to scale? Which players need to be on board that are not yet involved?



Getting to zero emission buildings by 2050

Programme outline

DAY ONE – Wednesday, 30 September 2020

Master of Ceremonies: Martina Otto, Head of Cities Unit and Head of GlobalABC Secretariat

12:00 – 12:10	<p>Introduction <i>Martina Otto, Head of Cities Unit and Head of GlobalABC Secretariat</i></p> <p>Welcoming remarks <i>Roland Hunziker, Director Sustainable Buildings and Cities, WBCSD & GlobalABC Steering Committee co-chair</i> <i>James Grabert, Director, Mitigation Division, UNFCCC</i></p> <p>Report on the Regional Technical Expert Meetings <i>Mareer Mohamed Husny, Chair, Technology Executive Committee</i></p>
12:10 – 12:20	<p>Keynote – Setting the scene: The vision for strengthening the buildings sector engagement towards the Paris Agreement, and the Race to Zero in 2050. <i>Chair of SBI Marianne Karlsen</i></p>

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12:20 – 12:25	<p>Session introduction Moderator: Marion Canute, broadcaster/communications specialist</p>
12:25 – 13:05	<p>Panel discussion</p> <ul style="list-style-type: none"> • The growing cooling demand: Trends and responses Gabby Dreyfuss, Kigali Cooling Efficiency Program (K-CEP)/Climateworks. • Meeting cooling needs through building design: Passive buildings & effective Retrofits Jessica Grove-Smith, Passive House Institute Polash Mukerjee, Natural Resources Defense Council. • Identifying local cooling solutions: Local building materials & vernacular architecture Mae-ling Jovenes Lokko, Rensselaer Polytechnic Institute. • Nature-based solutions for cooling and greening David Callow, City of Melbourne Yvonne Lynch, City of Riyadh
13:05 – 13:35	<p>Question & interactive discussion</p>
13:35 – 13:45	<p>Summary and close Marion Canute, broadcaster/communications specialist</p>