



Transforming Cities in Hot and Humid Climates Towards more Efficient and Sustainable Energy Use



IEA Future Buildings Forum 2017 Session Plan – DRAFT

Meeting co-chairs: *Tan Tian Chong (BCA) and Andreas Eckmanns (EBC)*

Day 1 - 24 October 2017, Tuesday (morning)

Time	Duration	Activity	Venue
0830	30 mins	Registration and breakfast	T1-1 Auditorium
0900	30 mins	Welcome and opening address <ul style="list-style-type: none"> – Welcome: <i>Er Lam Siew Wah, Managing Director Built Environment Research and Innovation Institute, BCA</i> – Welcome: <i>Dr Fatih Birol, IEA Executive Director</i> – Opening: <i>Mr Andreas Eckmanns, Chair IEA EBC</i> 	T1-1 Auditorium
0930	45 mins	Keynote “Future challenges of cities in hot and humid climates” <i>Prof Lam Khee Poh, Dean School of Design and Environment, National University of Singapore</i>	T1-1 Auditorium
1015	30 mins	Tea-break	Tower Block, Level 2 Foyer
1045	45 mins	Challenge Statement Plenary presentations on <ul style="list-style-type: none"> – Policy: “IEA Energy Technology Perspectives” <i>Brian Dean, Energy Efficiency Division, IEA</i> – Industry and Business’ view: <i>David Waldren, Head of Planning, Design and Development, Grocon</i> – Future challenges of cities: <i>Deo Prasad, “Sustainable, resilient and low carbon’</i> – Technology/Implementation: <i>Poul Erik Kristensen, (tbc)</i> – “Singapore’s Positive/Zero/Super-Low Energy Buildings Challenge for the Tropics” <i>Dr Gao Chun Ping, Director Green Building Research Department, Built Environment Research and Innovation Institute, BCA</i> 	T1-1 Auditorium
1130	60 mins	Tour of Skylab	Tower Block, Level 8
1230	90 mins	Lunch	Block F, Cafeteria

Day 1 - 24 October 2017, Tuesday (afternoon)

1400	90 mins	<p>Challenges to be addressed <i>Barriers and obstacles in policy making and implementation, business and market penetration, technology uptake and in addressing user behaviour</i></p> <p>Guided parallel discussions in 3 groups to cover the perspectives of</p> <ul style="list-style-type: none"> i. Policy Making and Implementation (Gov./Authorities) ii. Technology Meets Market Demand (Industry) iii. Technology Implementation (City/Planners/End-users) 	T8-3, T8-4, T8-5
1530	30 mins	<i>Tea Break</i>	Tower Block, Level 2 Foyer
1600	30 mins	<p>Conclusions from the Parallel Sessions on Challenges Identification of 12-16 topics including cross-cutting issues to be further discussed (eg. rating by participants) <i>Workshop facilitators of the 3 groups</i></p>	T1-1 Auditorium
1630	30 mins	<p>Industry Keynote "Importance of long term measurement and monitoring for ACMV in the tropics" <i>Mr Lee Eng Lock, Deputy Chairman and Senior Technical Director, Measurement and Verification Pte Ltd</i></p>	T1-1 Auditorium
1700	30 mins	Travel to United World College of South East Asia (UWCSEA) for Site Visit	
1730	45 mins	<p>Site Visit United World College of South East Asia (UWCSEA) Dover Campus "3for2" technology. Transportation provided from BCA Academy.</p>	UWCSEA Dover Campus, Admin Building
1815	30 mins	Travel to NUSS Guild House@Suntec City for Networking Dinner	
1900		<p>Networking Dinner (Paid event). Transportation provided from UWCSEA Dover Campus</p>	NUSS Guild House@Suntec City

Day 2 - 25 October 2017, Wednesday (morning)

Time	Duration	Activity	Venue
0830	30 mins	<i>Joint Presentation: Annex 62 Ventilative Cooling and Annex 69 Adoptive Thermal Comfort by Dr Toshihiro Nonaka and Dr Cao Bin (tbc)</i>	Tower Block, Level 2 Foyer
0900	60 mins	<p>State of the Art briefings <i>Plenary presentations out of the TCPs network</i></p> <ul style="list-style-type: none"> – Cooling Technology: “Cooling Technologies” – Stephan Renz, Chair IEA HPT “Solar cooling” – <i>Stephen White, IEA SHC</i> – Building Efficiency: “Multi-Scale Energy Systems” – Dr Jimeno Fonseca, ETH-FCL – Grid and Storage Interaction: <i>Mark Spurr, IEA DHC</i> <i>Teun Bokhoven, Chair IEA ECES</i> – Policy Implementation: Benoît Lebot, IPEEC, Executive Director (tbc) 	T1-1 Auditorium
1000	45 mins	<p>Opportunities <i>Identify the means to address the existing challenges in the fields of technology, policy and market implementation</i></p> <p>Guided parallel workshop discussions (4 groups of which each works on 3-5 topics as identified on Day 1)</p> <ol style="list-style-type: none"> i. City and District level – technology needs and solutions ii. City and District level – policy and market implementation iii. Building level – technology needs and solutions iv. Building level – policy and market implementation 	T8-1, T8-3, T8-4, T8-5
1045	30 mins	<i>Tea-break</i>	Tower Block, Level 2 Foyer
1115	45 mins	Opportunities (cont.)	T8-1, T8-3, T8-4, T8-5
1200	30 mins	<p>Conclusions from the parallel Sessions on Opportunities Findings of the 4 groups and assignment of these for in-depth discussion in the following discussion blocks (afternoon session). <i>Workshop facilitators of the 4 groups</i></p>	T1-1 Auditorium
1230	90 mins	<i>Lunch</i>	Block F, Cafeteria

Day 2 - 25 October 2017, Wednesday (afternoon)

1400	90 mins	<p>R+D Priorities of the next 5 years <i>In-depth discussion on where and how IEA-TCPs contribute to provide solutions, as well as prioritisation of each R+D theme.</i></p> <p>Guided parallel workshop discussions (4 groups of which each works on 3-5 topics including cross-cutting issues)</p> <ul style="list-style-type: none"> i. Building HVAC and systems (HPT, 4E, EBC, SHC) ii. Building envelope and user behavior (EBC, SHC, DSM, PVPS) iii. City and District scale (DHC, EBC, DSM, ECES, SHC) iv. Grid and storage interaction, renewable integration (ISGAN, ECES, PVPS, SHC) 	T8-1, T8-3, T8-4, T8-5
1530	30 mins	<p>Conclusions from the parallel Sessions on R+D Priorities Identification of R+D priorities of the next 5 years <i>Workshop facilitators of the 4 groups</i></p>	T1-1 Auditorium
1600	30 mins	<i>Tea break</i>	Tower Block, Level 2 Foyer
1630	30 mins	<p>Wrap-up Conclusions and recommendations resulting from the FBF 2017 <i>Co-chairs</i></p>	T1-1 Auditorium
1700	15 mins	<p>Closing remarks and follow up actions <i>Co-chairs</i></p>	T1-1 Auditorium
1715		End of the meeting	

26 September 2017