

**Attachment – 1 : Program of EMAK11**

Date : Feb. 9 2023

Venue : Grand Copthorne Waterfront

Address: 392 Havelock Road Singapore 169663

**Theme: Transitions toward Net-Zero Energy Building**

**Workshop**

| Time        | Agenda   |
|-------------|--|
| 09:30-10:00 | <b>Reception/Connection Test</b>   |
| 10:00-11:00 | <b>Opening Remarks &amp; Keynotes</b>  |
| 10:00-10:10 | Remarks from the Energy Efficiency Hub<br>Ms. Kristina Klimovich, Programme Officer, Energy Efficiency Hub   |
| 10:10-10:20 | Remarks from Japan<br>Mr. Masashi Hoshino, Director, International Affairs Office, ANRE, METI, Japan   |
| 10:20-10:40 | Keynote-1: The Human Dimension of Net Zero Energy Buildings<br>Dr. Clayton Carl Miller, Assistant Professor, National University of Singapore  |
| 10:40-11:00 | Keynote-2: Impact for GHG reduction by ZEB<br>Dr. Masayuki Ichinose, Associate Professor, Tokyo Metropolitan University, Japan   |
| 11:00-11:30 | <b>Guest Introduction and Photo Session &amp; Break</b>  |
| 11:30-12:50 | <b>Session – 1 : Effective Policy Packages for Sustainable and Energy Efficient Building – Pathway to net ZERO Energy Building – Chaired by Mr. Joji Koike, ECCJ</b>   |
| 11:30-11:45 | S1-1 Japan's policy and strategy in the building sector towards Carbon Neutrality<br>Mr. Haruto Shinoda, Assistant Director, International Affairs Office, ANRE, METI, Japan   |
| 11:45-12:00 | S1-2 Towards Net-Zero Buildings in Canada<br>Mr. Jérôme Bilodeau, Director, Office of Energy Efficiency, Canada (via online)   |
| 12:00-12:10 | Q&A  |
| 12:10-12:25 | S1-3 Toward Carbon Neutrality in Building sector in ASEAN<br>Dr. Nuki Agya Utama, Executive Director, ASEAN Centre for Energy  |
| 12:25-12:40 | S1-4 Transitioning to Net-zero Commercial Buildings in Australia<br>Mr. Stanford Harrison, Director, Commercial Building Policy, Department of Climate Change, Energy, the Environment and Water, Australia (via online) |
| 12:40-12:50 | Q&A  |
| 12:50-14:10 | <b>Lunch</b>   |
| 14:10-15:45 | <b>Session – 2 : The Best Practice examples towards net ZERO Carbon goals in the Building sector Chaired by Mr. Masashi Hoshino, ANRE, METI</b>  |
| 14:10-14:25 | S2-1 Singapore's Sustainability Drive Towards Zero Energy<br>Ms. Farizan d'Avezac de Moran, Senior Partner, GreenA Consultants Pte Ltd, Singapore  |
| 14:25-14:40 | S2-2 ZEB conversion retrofit of existing building in Malaysia<br>Mr. Steve Anthony Lojuntin, Director, Sustainable Energy Development Authority, Malaysia  |
| 14:40-14:55 | S2-3 The Best Practice examples towards carbon neutrality goals in the building sector<br>Mr. Zhang Yigong, Project Engineer, China Quality Certification Centre, China (via online)                                     |
| 14:55-15:05 | Q&A  |
| 15:05-15:20 | S2-4 Energy Saving Technology Towards ZEB and SLEB as a Private Construction Company in Singapore<br>Dr. Takamasa Hasama, Senior Research Engineer, Kajima Technical Research Institute Singapore                        |
| 15:20-15:35 | S2-5 Climate-neutral construction and refurbishment - best practice examples from Germany<br>Mr. Manuel Palz, Federal Ministry for Economic Affairs and Climate Action (BMWK), Germany (via online)                      |
| 15:35-15:45 | Q&A  |
| 15:45-16:05 | <b>Break</b>   |

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| 16:05-17:35 | <b>Session – 3 : Panel Discussion on Promotion of EE&amp;C toward achievement of Net-Zero Energy Building<br/>Moderated by Dr. Yoshitaka Ushio, ECCJ</b>   |
| 16:05-16:45 | Panel Discussion (Speakers and Representatives of Government / Private Sector)<br>Panelist's opinion sharing (5min. each) and Discussion<br>Agenda-1 : Key policy issues to enhance awareness of building owners to promote ZEB<br>ACE(Dr. Nuki Agya Utama), EE Hub(Ms. Kristina Klimovich),<br>Germany(Mr. Manuel Palz via online), Japan(Mr. Haruto Shinoda)<br>Discussion and Q&A |
| 16:45-17:25 | Agenda-2 : Technical challenges for promote and disseminate ZEB<br>Singapore(Ms. Farizan d'Avezac de Moran), Malaysia(Mr. Steve Anthony Lojuntin),<br>Germany(Mr. Manuel Palz via online), Japan (Dr. Takamasa Hasama)<br>Discussion and Q&A   |
| 17:25-17:35 | Wrap-up of Session – 3 by Moderator  |
| 17:35-17:45 | <b>Closing</b>   |
| 17:35-17:40 | Closing Remarks (MTI, Singapore)<br>Mr. Jonathan Goh, Director of External Relations, Energy Market Authority  |
| 17:40-17:45 | Closing Remarks(METI, Japan)<br>Mr. Masashi Hoshino, Director, International Affairs Office, ANRE, METI  |
|             | <b>END of Workshop</b>   |
| 18:00-19:30 | <b>Reception</b>   |

#### (Abbreviations)

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|------|---|
| ACE  | : ASEAN Centre for Energy   |
| ANRE | : Agency for Natural Resources and Energy (Japan)                   |
| BMWK | : Federal Ministry of Economic Affairs and Climate Action (Germany) |
| ECCJ | : The Energy Conservation Center, Japan                             |
| EE&C | : Energy Efficiency and Conservation                                |
| EMA  | : Energy Market Authority   |
| EMAK | : Energy Management Action Network for Industrial Efficiency        |
| GHG  | : Greenhouse Gas  |
| MTI  | : Ministry of Trade and Industry (Singapore)                        |
| METI | : Ministry of Economy, Trade and Industry (Japan)                   |
| SLEB | : super low energy building   |
| ZEB  | : net zero energy building  |

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