

Preliminary Forum Programme

2023 ASEAN Sustainability and Construction Forum

20-22 November 2023 ~ Raffles City Convention Centre, Singapore

Monday, 20th November 2023

07:30 – 08:45 Registration

Opening Session

08:45 – 09:00 Housekeeping Announcement

09:00 – 09:10 **Welcoming Address by Ms Tan Man Ee, Chief Operating Officer of NatSteel Holdings Pte Ltd**

09:10 – 09:20 **Opening Address by Mr. Purwono Widodo, Chairman of SEAISI**

09:20 – 09:50 **Ministerial Address/ Official Opening**

09:50 – 09:55 **Award Presentation**

09:55 – 10:50 **SPECIAL MESSAGE BY SEAISI**

1. Yeoh Wee Jin, Secretary General, SEAISI

2. Pichsini Tapa-Apirak, Chairman of Statistical and Economics Committee, SEAISI

10:50 – 11:10 **Coffee Break**

11:10 – 13:10 SPECIAL SESSION – The Future of Green Transition for Sustainable Business

1. Atul Gogna, Boston Consulting Group
2. Yvonne Soh, Singapore Green Building Council
3. Cheryl Bowler, Vertree
4. Atilla Widnell, Navigate Commodities

13:10 – 14:25 **Lunch**

CEO SESSIONS

14:25 – 15:25 **CEO Session 1 – Strategies & Challenges Towards Net Zero Construction**

15:25 – 15:45 **Coffee Break**

15:45 – 16:45 **CEO Session 2 – Sustainability: ASEAN Decarbonization Pathway and Its Challenges**

16:45 – 17:25 **CEO Session 3 – Sustainability Financing: Unlocking the Potential of Green Projects**

Tuesday, 21st November 2023

SUSTAINABILITY SESSIONS

SESSION 1A: TECHNOLOGY DEVELOPMENT: A PATH TO A GREENER FUTURE

- 09:00 – 09:20 Choosing the Right Pathways for Steel Making Expansion in the ASEAN Region, Jia-Uei Chan, SMS group AP Pte. Ltd., Singapore
- 09:20 – 09:40 An analysis of the Global Coal-Based Steelmaking Fleet Using the New Global Blast Furnace Tracker, Caitlin Swalec, Global Energy Monitor, USA
- 09:40 – 10:00 Decarbonizing the Steel Industry: A Global Multi-Energy Company Perspective, Cyril Duchanois, TotalEnergies, France
- 10:00 – 10:20 Hydrogen and Ammonia Market Trends, Vipul Garg, S&P Global, Singapore
- 10:20 – 10:40 **Coffee Break**

SESSION 2A: DECARBONIZATION: A TOP-DOWN APPROACH

- 10:40 – 11:00 Energy Saving and CO2 Emission Reduction in Integrated Steel Mill, Yusuf Gunawan, Krakatau Posco, Indonesia
- 11:00 – 11:20 Increased Scrap Rate for Oxygen Steelmaking, Che-Hsien Chu, Dragon Steel Corporation, Taiwan
- 11:20 – 11:40 Outlook of Liable Technological Solutions for Sustainable Reheating Furnaces, Vincent Pot, Fives Group, France
- 11:40 – 12:00 Niobium Alloy Design Impact on Steel Life-Cycle Emissions, Thiago De Souza Amaral, CBMM Singapore
- 12:00 – 13:00 **Lunch Break**

SESSION 3A: NAVIGATING THE COMPLEXITIES OF CARBON MARKET

- 13:00 – 13:20 Impact on EU CBAM, Shankhadeep Mukherjee, CRU
- 13:20 – 13:40 Sustainability in Steel Markets – where are we at?, Ng Bao Ying, S&P Global (TBC)
- 13:40 – 14:00 Supporting the green steel evolution, Nabilah Awang, Zheng Shu Yi, Fastmarkets
- 14:00 – 14:20 TBC, Andrew Chew, Lignoson, Singapore

SESSION 4A: POWER OF ENVIRONMENTAL MANAGEMENT

- 14:20 – 14:40 Water Conservation at PT Krakatau Posco as an Effort to Implement Green Industry Concept, Nadia Samiyah, Krakatau Posco, Indonesia
- 14:40 – 15:00 TBC, Foo Yang Kwang, Singapore District Cooling, Singapore Power, Singapore
- 15:00 – 15:20 Metal Recovery and Recycling Planning from Reducing Slag: Exploring Feasibility through Magnetic Separation, Sieving, Crushing, Sashing, and Sinnowing Methods, Huang Shun Ying, Walsin Lihwa Corporation, Taiwan
- 15:20 – 15:40 TBC, Primetals
- 15:40 – 16:00 Decarbonization by use of Hydrogen in Steel Industry Operation, Dr. Joachim von Scheele, Linde
- 16:00 – 16:20 Coffee Break**

SESSION 5A: SUSTAINABILITY UPDATES

16:20 – 17:35 Sustainability Reports from Indonesia, Malaysia, Philippines, Singapore, Thailand and Vietnam

CONSTRUCTION SESSIONS

SESSION 1B: FUTURE BUILDING & CONSTRUCTION

09:00 – 09:20 Building & Innovating Together, Lim Tee Yoke, Tiong Seng Group, Singapore

09:20 – 09:40 Advancing Multistory Buildings with Hollow Steel Section (HSS) Columns Supporting Reinforced Concrete (RC) and Post-Tensioned (PT) Concrete Flat Slabs, Nuttapon Suttitam, Sahaviriya Steel Industries PCL, Thailand

09:40 – 10:00 The Future of Building and Construction with High Performance Steel, High Strength Low Alloy, Steel for Sustainability and Recycling, Prefabricated and Modular Construction, Gawinphat Nithitechaset, C.S. Steel Products, Thailand

10:00 – 10:20 Floating Concrete Structure, Colin Yip, Woh Hup, Singapore

10:20 – 10:40 **Coffee Break**

SESSION 2B: HOW DIGITALIZATION IS TRANSFORMING CONSTRUCTION

10:40 – 11:00 3D Reinforcing Automation: Benefits and Beyond, Sam Killkenny-Brown, Arup, Singapore

11:00 – 11:20 Digitalization of the Rebar Supply in Singapore, Yong Heng Cheong, NatSteel Holding Pte, Singapore

11:20 – 11:40 The Business Case for Investing in Product LCAs and EPDs for Construction Products, Aditi Chitnis, One Click LCA Ltd., Singapore

11:40 – 12:00 Sustainability and Traceability Requirements for Steel Mills Supplying into the Australian Market, Dr. Leo Frawley, Australasian Certification Authority for Reinforcing and Structural Steels Ltd., Australia

12:00 – 13:00 **Lunch Break**

SESSION 3B: DECARBONIZATION IN CONSTRUCTION TOWARDS NET ZERO

13:00 – 13:20 Decarbonizing Construction, Tim Aldeburgh, WSP Consultancy Pte, Ltd, Singapore

13:20 – 13:40 Development of Cost-Effective Ultra-Low Carbon Ready-Mixed Concrete for Sustainable Urban Construction, Mingshan Zhao, Che-Hsien Chu, Singapore Institute of Technology, Singapore

13:40 – 14:00 Building Green with Sustainable Products, Lem Yang Lim, Singapore Green Building Council

14:00 – 14:20 The LCA Approach to Assess Tall Buildings with Different State Structures, Giovanni Perrucci, Council on Tall Buildings and Urban Habitat (CTBUH), Italy

SESSION 4B: EXPLORING BUILDING MATERIALS: WHAT TO EXPECT

- 14:20 – 14:40 Stowage and Its Impact on the Steel Supply Chain, Yin Xuan, Jurong Port, Singapore
- 14:40 – 15:00 Analysis Study of Inter-modular Connections of KSITS Steel Modular Growing House Due to Cyclic Loads, Budi Suswanto, PT Krakatau Steel - ITS, Indonesia
- 15:00 – 15:20 Properties of High-Performance Bridge Steel Plates in CSC, Wei-Chih Chung, China Steel Corporation, Taiwan
- 15:20 – 15:40 Embodied Carbon Over the Life Cycle of Reinforcing Steels: Carbon Emissions Associated with Modules A1-A3 Product Stage and A4-A5 Construction Stage, Chin Seng Yap, CARES, UK
- 15:40 – 16:00 The development of Energy-Saving High-Strength EN S450GD Structural Steel Products, Tsung-En Yang, China Steel Corporation, Taiwan
- 16:00 – 16:20 **Coffee Break**

SESSION 5B: CONSTRUCTION UPDATES

- 16:20 – 17:35 Construction Reports from Indonesia, Malaysia, Philippines, Singapore, Thailand, and Vietnam

Wednesday, 22nd November 2023

Plant Tour

Route 1, Visit to:

- 1. Marina Barrage**
- 2. Singapore District Cooling Pte Ltd**

Route 2, Visit to:

- 1. ICPH (Integrated Construction & Pre- Fabrication Hub)**
- 2. Jurong Port RMC Ecosystem**