

2024 ASEAN Iron and Steel Forum: Sustainable Steel and Green Construction

18-21 November 2024 • Thailand

~ Preliminary Forum Programme ~

SUNDAY, 17 November 2024

| TIME | | ACTIVITY | LOCATION |
|-------|-------|----------------------------------|----------|
| 14:00 | 20:00 | Pre-Registration | |
| 18:00 | 18:45 | Chairpersons & Speakers Briefing | |

MONDAY, 18 November 2024

| TIME | | ACTIVITY |
|-------|-------|--------------|
| 07:30 | 08:30 | Registration |

OPENING SESSION

| | | |
|-------|-------|---|
| 08:30 | 08:45 | Housekeeping Announcement |
| 08:45 | 8:55 | Welcoming Address by Mr. Win Viriyaprapaikit |
| 8:55 | 9:05 | Opening Address by Dato Lim Hong Thye |
| 9:05 | 9:25 | Special Address by Mr. Rongphet Bunchuaidee, Deputy Director of Thailand Greenhouse Gas Management Organization |

Keynote Session - Sustainability: ASEAN - China Policies for Decarbonization

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|------|-------|--|
| 9:30 | 9:50 | CISA presentation by Mr Jiang Wei, Vice Chairman, China Iron and Steel Association |
| 9:50 | 10:10 | Mr. Yeoh Wee Jin, Secretary General, SEAISI |

CEO Session - Sustainability: ASEAN - China Policies for Decarbonization

| | | |
|-------|-------|---|
| 10:10 | 11:25 | <ol style="list-style-type: none"> Rongphet Bunchuaidee, Deputy Director of Thailand Greenhouse Gas Management Organization Pavich Kesavawong, Deputy Director General, Department of Climate Change and Environment, Ministry of Natural Resources and Environment Bernhard Steenzen, Chief Sales Officer, SMS Group Jiang Wei, Vice Chairman, China Iron and Steel Association Dr. Sebastian Langendorf, Founding CEO, Meranti Green Steel Dato Lim Hong Thye, SEAISI Chairman, Group Managing Director of Ann Joo Steel Berhad |
|-------|-------|---|

11:25 11:45 Coffee Break

Keynote Session - Green Steel Construction

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|-------|-------|-------------------------|
| 11:45 | 12:05 | Mr. Win Viriyaprapaikit |
|-------|-------|-------------------------|

CEO Session- Green Steel Construction Related Moderator - Win Viriyaprapaikit

| | | |
|-------|-------|--|
| 12:05 | 13:20 | <ol style="list-style-type: none"> Surachet Laophulsuk, Governor of Express Way Authority of Thailand Liza Ngamthakulpanit, President of The Contractors Association Under H.M. The King's Patronage Alessandro Marzucchini, Technical Director, MMC Lead Buildings (invited) Tan Man Ee, Chief Operating Officer & Director, NatSteel Holdings Pte Ltd and SEAISI Director from Singapore |
|-------|-------|--|

13:20 14:50 LUNCH BREAK

| SESSION 1A - ASEAN Environmental and Safety Reports Chairperson - | | | SESSION 1B - ASEAN Construction Reports Chairperson - | | |
|--|-------|-------------|--|-------|-------------|
| 14:50 | 15:05 | Indonesia | 14:50 | 15:05 | Indonesia |
| 15:05 | 15:20 | Malaysia | 15:05 | 15:20 | Malaysia |
| 15:20 | 15:35 | Philippines | 15:20 | 15:35 | Philippines |
| 15:35 | 15:50 | Singapore | 15:35 | 15:50 | Singapore |
| 15:50 | 16:05 | Thailand | 15:50 | 16:05 | Thailand |
| 16:05 | 16:20 | Vietnam | 16:05 | 16:20 | Vietnam |

2024 ASEAN Iron and Steel Forum: Sustainable Steel and Green Construction

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Tuesday 19 November 2024

| TIME | SPEAKER/ INSTITUTION | PAPER TITLE | SPEAKER/ INSTITUTION | PAPER TITLE | SPEAKER/ INSTITUTION | PAPER TITLE | |
|--|----------------------|--|---|---|---|--|--|
| SEAS | | | | | | | |
| SESSION 2 A - Decarbonization: A Top-Down Approach | | | SESSION 2 B - Green & Sustainable Buildings | | SEAS IFC Workshop on Sustainable Finance | | |
| Chairperson - | | | Chairperson - | | Session 1 C: Financial Focus | | |
| 9:00 | 9:20 | Bernhard Steenken SMS Group | The Path to Decarbonization: Green Steel in ASEAN's Steel Industry | Alessandro Marzucchini Ramboll | Pioneering Innovative Modular Systems: Leveraging Steel for Sustainable and Resilient Buildings | IFC | Sharing Survey Results and Set the Scene for the event and Financing Case Studies and Requirements to Invest on projects |
| 9:20 | 9:40 | Joanne Ju S&P Global Commodity Insights | Steel decarbonization in Asia and how it has been impacted by declining prices | Niwat Thanpitinan Propertist Co., Ltd., Thailand | Remarkable Construction Project: Challenge & Key Learning | IFC | Hypothetical Project Looking for Investment - Showcase on How IFC Will Look at the Project and Criteria to Fulfill for Green Financing |
| 9:40 | 10:00 | Shankhadeep Mukherjee CRU | Steel decarbonisation - The CRU perspective | Chakkril Luangcharoenrat Gensler (Thailand) Limited, Thailand | Steel the Future: Shaping Sustainable Built Environments | IFC and Other Banks (ADB, HSBC, MUFG and a Local Bank) | Panel Discussion 1: IFC and Other Banks |
| 10:00 | 10:20 | Chien-Pu, Tu China Steel Corporation, Taiwan | The Development and Validation of Steel Products with High Recycled Content | Jade Bunruangrod PaThai Social Enterprise Co., Ltd., Thailand | Emotional Branding Architecture Success with Eco-Construction: Pre-engineered Steel & Green Design with Brand Experience as Core Value. | | |
| 10:20 | 10:50 | COFFEE BREAK | | | | | |
| SESSION 3 A - Power of Environmental and Safety Management | | | SESSION 3 B - Exploring Building Materials: What to Expect | | Session 2 C: Technical and Project Focus | | |
| Chairperson - | | | Chairperson - | | Presentation vs Panel Discussion | | |
| 10:50 | 11:10 | Chaiyasit Longbutrsi Suranaree University of Technology, Thailand | Feasibility Study on Hematite and Strontium Extraction Compound from Grinding Sludge Generated from Strontium Ferrite Manufacturing Factory | Wang Gang Jianlong Group | Development and application of high strength and special rebar | Gunung Group | Revamp EAF Project and Downstream |
| 11:10 | 11:30 | Lin Ting Wei Walsin Lihwa Corporation, Taiwan | Research on the Application of Stainless Steel Pickling Sludge as Coagulant for Molybdenum-Containing Wastewater | Priyambodo Nur Ardi Nugroho PT. Krakatau Steel (persero), Tbk, Indonesia | The Distortion Behaviour of the Use of FCAW on Grade A Steel for Ship's Block Construction: A Combined Experimental and Numerical | Steel Asia | NEW EAF Project |
| 11:30 | 11:50 | Chen, Yen-Chou China Steel Corporation, Taiwan | Purification and Hot Briquetting Technology of BOP Dust Deriving from CSC | Wei-Chih Chung China Steel Corporation, Taiwan | Development of 50kg -trade high performance bridge steel plates in CSC | Malaysia Project - Esteel | DRI Projects for High Quality Steel |
| 11:50 | 12:10 | Y.T. Su China Steel Corporation, Taiwan | The applications of infrared thermography for ladle safety management | Po-Cheng Su China Steel Corporation, Taiwan | Detection System for holes and edge cracks in silted steel strips | Tatalogam | Steel Downstream Projects |
| 12:10 | 13:10 | LUNCH BREAK | | | | | |
| SESSION 4 A - Navigating the Complexities: A Path to a Greener Future | | | SESSION 4 B - Advanced Construction Methods and Trends | | | | |
| Chairperson - | | | Chairperson - | | | | |
| 13:10 | 13:30 | Sebastian Langendorf Meranti Steel, Singapore | New Green Steel Supply Chains and the Meranti Green Steel Approach | Kanapong Tongphan Siam Yamato Steel Co., Ltd., Thailand | Implementation and Engineering Challenges of Super Truss Construction in the Queen Sirkit National Convention Center (QSNCC) Project | | |
| 13:30 | 13:50 | TBA Gunung Raja Paksi | TBA | Surasak Wattanajindawong ME DESIGN and I CO.,LTD., Thailand | Waste Not Built More - How Modular and Prefabricated Construction Preserves Thai Architectural | | |
| 13:50 | 14:10 | Martin Paul Smith Primetals | The Blastr Project: the most radical and complete project in the world for decarbonizing the steel industry | Nuttapon Suttitiam Sahaviriya Steel Industries PCL, Thailand | STREAMLINING STEEL BEAM, COLUMN, AND CONNECTION DESIGN | | |
| 14:10 | 14:30 | Le Khac Giang NatSteelVina Co., Ltd., Vietnam | Effective Energy Saving Activities through Access to Energy Audit Results | Auttawut Kaewsuttipon Architect49 Limited, Thailand | Steel in Architecture | | |
| 14:30 | 15:00 | COFFEE BREAK | | | | | |
| SESSION 5 A - Advancing Systems for Green Steel Production | | | SESSION 5 B - Decarbonization in Construction towards Net Zero | | | | |
| Chairperson - | | | Chairperson - | | | | |
| 15:00 | 15:20 | Yao Hsin Yi Walsin Lihwa Corporation, Taiwan | Optimizing Heat Treatment for Martensitic Stainless Steel: Reducing Energy Consumption and Carbon Emissions through Process Time Reduction | Dr. Zhang Yuhui Singapore Institute of Technology, Singapore | Activation of electric arc furnace steel slag ultra-fines for green concrete production | | |
| 15:20 | 15:40 | Frank Xu China IG Member Alliance (CIGMA), China | TBA | Chin Seng Yap UK CARES, UK | Digitalising Global Warming Potential Data in Steel Supply Chain | | |
| 15:40 | 16:00 | Lin Che Min China Steel Corporation, Taiwan | Operational Influence on the Efficiency of Pressure Wing Adsorption Process for Carbon Capture | Adam Peacock Aurecon Group | The Construction Industry has a REAL Opportunity to Reduce Embodied Carbon Emissions | | |
| END OF DAY TWO | | | | | | | |

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|---|--------------|--|-------------|-------------|
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| ~ Preliminary Forum Programme ~ | | | | |
| WEDNESDAY, 20 November 2024 | | | | |
| OPENING CEREMONY | | | | |
| | ACTIVITY | SPEAKER | PAPER TITLE | INSTITUTION |
| CISA Technical Symposium: CISA-SEAISI Collaboration Moderator - | | | | |
| 8:30 | 8:35 | Welcome Remarks by Yeoh Wee Jin | | |
| 8:35 | 8:40 | Opening Remarks by Jiang Wei, Vice Chairman, China Iron and Steel Association | | |
| Session 1: China's Path to Net-Zero: Innovations in Decarbonization Technologies Moderator - | | | | |
| 8:40 | 8:55 | Low carbon and intelligent new steel technologies for the future, MCC CISDI Group Co., Ltd. | | |
| 8:55 | 9:10 | Key technologies for efficient and green production of clean steel with large-scale converters, Process Research Institute under Central Iron & Steel Research Institute | | |
| 9:10 | 9:25 | Green technologies for the entire process of steel production (including by-product gas and waste heat power generation), WISDRI Engineering & Research INC.LTD. | | |
| 9:25 | 9:40 | Cost reduction system of integrated pollutants and carbon emission control, BME | | |
| 9:40 | 9:55 | Fugitive emission control technologies for EAF mini mill steel enterprises, Hunan Jiujiu Intelligent Environmental Protection Co., Ltd | | |
| 9:55 | 10:15 | Q&A and Discussion | | |
| 10:15 | 10:35 | COFFEE BREAK | | |
| Session 2: Innovations in China's Steel Industry: Driving Efficiency and Sustainability Moderator - | | | | |
| 10:35 | 10:50 | Artificial Intelligence Facilitating the Transformation and Development of the Steel Industry, Huawei Coal Group | | |
| 10:50 | 11:05 | Photovoltaic Technology for Steel Plant Roof, Sunman Energy | | |
| 11:05 | 11:20 | Energy Saving Plan for Compressed Air System in Steel Enterprises, Shandong Jiafu Energy | | |
| 11:20 | 11:35 | MEC Research and Application of Ecological Descaling Technology and Units for Hot Rolled Steel, Mopper Ecology Clean technology | | |
| 11:35 | 11:50 | Hydrogen Cutting Energy-Saving and Efficiency Increasing Technology, Shaanxi Huaqin | | |
| 11:50 | 12:10 | Q&A and Discussion | | |
| 12:10 | 13:10 | LUNCH BREAK | | |
| ASEAN-JAPAN STEEL INITIATIVE SEMINAR: JISIF-SEAISI Collaboration Moderator - | | | | |
| Opening Session Moderator - Hitomi Tanikawa, Nippon Steel Technology | | | | |
| 13:10 | 13:15 | Welcome Remarks by Yeoh Wee Jin | | |
| 13:15 | 13:20 | Opening Remarks by Dr. Hitoshi Dohnomae, The Chair of the International Environmental Strategic Committee, JISF | | |
| Session 1: Policy Developments toward Carbon Neutrality Moderator - Somsak Pikkanasuan | | | | |
| 13:20 | 13:25 | Activities of SteelEcosol | | |
| 13:25 | 13:35 | Policy and Initiatives toward Carbon Neutrality in ASEAN by SEAISI | | |
| 13:35 | 13:50 | Policy and Initiatives toward Carbon Neutrality in Japan by Ministry of Economy, Trade and Industry, Government of Japan | | |
| 13:50 | 14:05 | The current energy landscape and the role of the Net Zero Emission Roadmap development in the ASEAN Steel Industry, by Rio Jon Piter Sillitonga, ASEAN Center for Energy | | |
| 14:05 | 14:20 | Presentation from Miki Yanagi, The Institute of Energy Economics, Japan | | |
| 14:20 | 14:25 | Q&A and Discussion | | |
| Session 2: Activities and Challenges of Steelmakers Moderator - Izumi Imai, The Japan Iron and Steel Federation | | | | |
| 14:25 | 14:40 | Global Steel Decarbonization Initiatives - Information Sharing Updates on ISO, GHG Protocol, by Dr. Yoshitsugu Suzuki, JFE Steel Corporation | | |
| 14:40 | 14:55 | Emission Measurement Methodologies and Case Study of the EU CBAM Emission Measurement, by Dr. Fumitaka Kato, Nippon Steel Corporation | | |
| 14:55 | 15:05 | Response to Japanese GX League and GX ETC, by Noriaki Takamuku, Kobe Steel, Ltd. | | |
| 15:05 | 15:20 | Activities and challenges of steelmakers, by ASEAN Steel Makers | | |
| 15:20 | 15:25 | Q&A and Discussion | | |
| 15:25 | 15:45 | COFFEE BREAK | | |
| Session 3: Technology Developments for Energy Saving and Carbon Neutrality Moderator - Ibnu Sina | | | | |
| 15:45 | 16:05 | GREINS Overview, by Dr. Toru Kato, GREINS | | |
| 16:05 | 16:15 | CN related Best Available Technology for Steel Industry, by Nao Yamanaka, Nippon Steel Engineering | | |
| 16:15 | 16:25 | Technology for Carbon Neutrality, Hajime Yoshida, JP Steel Plantech | | |
| 16:25 | 16:40 | Project: A Study and Evaluation on the Development and Application of CCU Technology for Steel Industries | | |
| 16:40 | 16:45 | Q&A and Discussion | | |
| 16:45 | 16:50 | CLOSING REMARKS | | |
| END OF DAY THREE | | | | |

2024 ASEAN Iron and Steel Forum: Sustainable Steel and Green Construction

18-21 November 2024 • Novotel Bangkok Sukhumvit 20

Thursday 21 November 2024

PLANT VISIT ROUTE 1

Time: 08h30-15h00 Date: 21 November 2024

Dress code: Smart Casual and covered shoes.
(No short pants, No skirt, No high-heel shoes, No Opened-Toe shoes and Slippers)

| Time | Schedule |
|---------------|---|
| 08h30 - 09h00 | Gathering at Novotel Bangkok Sukhumvit 20 Lobby |
| 09h00 - 10h15 | Departure Novotel Hotel - Empower Steel Co., Ltd. |
| 10h15 - 11h15 | * Welcome speech by Representative from Empower Steel Co., Ltd. * Company Introduction * To give Souvenir Present and take photos |
| 11h15 - 12h15 | Plant visit |
| 12h15 - 12h45 | Depart for Lunch |
| 12h45 - 14h00 | Lunch |
| 14h00 - 15h00 | Return to Novotel Bangkok Sukhumvit 20 |

PLANT VISIT ROUTE 2

Time: 08h30-17h00 Date: 21 November 2024

Dress code: Smart Casual and covered shoes.
(No short pants, No skirt, No high-heel shoes, No Opened-Toe shoes and Slippers)

| Time | Schedule |
|---------------|--|
| 08h30 - 08h45 | Gathering at Novotel Bangkok Sukhumvit 20 Lobby |
| 08h45 - 09h15 | Departure Novotel Hotel - One Bangkok |
| 09h30 - 11h30 | * Refreshment and welcome speech by Representative from One Bangkok * Presentation on Project Overview and Site Walk Through * Group Photo and Token of Appreciation by SEAISI |
| 11h30 - 12h00 | Depart for Lunch |
| 12h00 - 13h00 | Lunch |
| 13h00 - 13h30 | Leaving Lunch venue to AIA Connect |
| 13h30 - 16h00 | * Refreshment and welcome speech by Representative from AIA Connect * Presentation on Construction Sequencing, Optimizing and Delivering with Steel Structures * Group Photo and Token of Appreciation by SEAISI |
| 16h00 - 17h00 | Return to Novotel Bangkok Sukhumvit 20 Hotel |