

# FY2021 AJSI Webinar

## Energy-Efficient and Environmental Transition towards Sustainable Steel Industry



**24<sup>th</sup> Feb 2022**

**12.30 - 4.00 pm Myanmar time**  
**1.00 - 4.30 pm Indonesia, Thailand & Vietnam time**  
**2.00 - 5.30 pm Malaysia, Philippines & Singapore time**  
**3.00 - 6.30 pm Japan time**

**Register online for free**

**Deadline|22<sup>nd</sup> Feb 2022**

\*Participants will receive the link to join the zoom webinar a few days before the event

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### **JOIN ZOOM AJSI WEBINAR!**

ASEAN-Japan Steel Initiative (AJSI) is a public-private initiative launched in 2014, aiming to exchange knowledge and experiences and thereby contribute to the energy saving and environmental protection in ASEAN.

This year, AJSI will organize the second webinar to highlight how the steel industry, which is highly affected by the COVID-19 pandemic, can take short- and long-term measures to achieve energy efficient and sustainable transition.

This webinar is open for both public and private stakeholders of the steel industry in ASEAN 7 countries (Indonesia, Malaysia, Myanmar, Philippines, Singapore, Thailand, and Vietnam) and Japan.

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**ASEAN Iron and Steel Council (AISC)** | Mr. Ibnu Sina [ibnusina@seaisi.org](mailto:ibnusina@seaisi.org)

**The Japan Iron and Steel Federation (JISF)** | Mr. Yoshio Takagi [takagi@jisf.or.jp](mailto:takagi@jisf.or.jp)

# Tentative Agenda

**Date: 24<sup>th</sup> February 2022 | Language: English**

Malaysia Time	Agenda	Speaker	Duration
14:00-14:05	Opening Remark	<b>Mr. Masayoshi Ohtake</b> Ministry of Economy, Trade and Industry (METI), Japanese Government	5 min
14:05-14:10	Opening Remark	<b>Mr. Nghiem Xuan Da</b> President, ASEAN Iron and Steel Council	5 min
14:10-14:15	ASEAN-Japan Steel Initiative: Purpose and Activities	<b>Mr. Yoshio Takagi</b> The Japan Iron and Steel Federation (JISF)	5 min
<b>Session 1: Energy Saving &amp; Environmental Technologies for Steel Industry– Short term solutions</b> Chairperson – Mr. Somsak Pikkanesuan, Chairman of Environmental & Safety Committee, SEAISI			
14:15-14:35	Outline of On-Line Steel Plant Diagnosis in ASEAN	<b>Mr. Michio Nakayama</b> JFE Techno-Research Corporation	20 min
14:35-14:55	Environmental Issues in ASEAN Steel Companies and Expectations toward Japan	<b>Dr. Sirintip Juntueng</b> Sahaviriya Steel Industries PCL	20 min
14:55-15:15	How much potential of subsidy amount does ECOARC have?	<b>Mr. Hajime Yoshida</b> JP Steel Plantech Co. (SPCO)	20 min
15:15-15:35	Introduction of NSE's CDQ Heat Recovery System to Reduce GHG Emissions	<b>Mr. Nao Yamanaka</b> Nippon Steel Engineering Co., Ltd.	20 min
15:35-15:50	Q&A		15 min
15:50-16:00	Coffee break		10 min
<b>Session 2: Approaches to Energy Efficient and Sustainable Transition – Long-term solutions</b> Chairperson – Mr. Hiroyuki Tezuka, JFE Steel Corporation			
16:00-16:15	JCM Project Finding Activity in the ASEAN Countries	<b>Ms. Hitomi Tanikawa</b> Nippon Steel Research Institute Corporation (NSRI) <b>Mr. Kenji Kakumoto</b> Tokyo Century Corporation	15 min
16:15-16:30	ISO: Introduction of Newly Proposed Standard	<b>Dr. Toru Nagai</b> Nippon Steel Corporation	15 min
16:30-16:45	New Trend: Carbon Neutral and Circular Economy in the Steel Sector	<b>Dr. Shiro Watakabe</b> JFE Steel Corporation	15 min
16:45-16:55	Q&A		10min
16:55-17:25	ASEAN Steel Industry's Strategy and Expectations toward AJSI Cooperation	<b>Panel Discussion</b> moderator from SEAISI Panelist : Singapore, Indonesia, Thailand and/or Vietnam and Japan) tbc	30min
17:25-17:30	Closing Remark	<b>Dr. Hitoshi Dohnomae</b> Nippon Steel Corporation (The Chair of International Strategic Committee, JISF)	5 min

## **Session 1: Energy saving & Environmental Technologies for Steel Industry– Short term solutions**

### **1-1 Outline of On-Line Steel Plant Diagnosis in ASEAN**

**Mr. Michio Nakayama, JFE Techno-Research Corporation**

*Steel plant diagnosis this year was done by on-line due to COVID-19. Target plant was an EAF plant in Thailand. Answers for the questionnaire concerning equipment specification, operational data, and ISO14404 sheet were analyzed and reported. As the actual operation was not observed, analysis was done mainly by comparing the data with similar size of Japanese plants.*

### **1-2 Environmental Issues in ASEAN Countries and Expectations toward Japan**

**TBD, SEAISI/AISC Member Company or Group**

TBD

### **1-3 How much potential of subsidy amount does ECOARC have?**

**Mr. Hajime Yoshida, JP Steel Plantech Co. (SPCO)**

*Energy saving is one of the most effective solution for CO2 reduction. A company which will introduce Japanese energy saving technology is able to apply for Japanese subsidy of Joint Credit Mechanism. Higher energy saving capability leads to bigger amount of subsidy in general. This presentation can give you rough scale of subsidy amount by explaining ECOARC which can realize large reduction of electricity consumption.*

### **1-4 Introduction of NSE's CDQ Heat Recovery System to Reduce GHG Emissions**

**Mr. Nao Yamanaka, Nippon Steel Engineering Co., Ltd. (NSE)**

*CDQ (as per "A-4 Coke Dry Quenching" of TCL) is a heat recovery system to cool the hot coke produced from Coke Ovens. CDQ significantly reduces GHG emissions by replacing with existing CWQ (Coke Wet Quenching). NSE's CDQ is highly evaluated among steel companies globally with high steam generation rate, stable operation results, etc. Additionally, NSE's action to study possibility to adopt financing program of JCM for CDQ in Southeast Asia shall be explained.*

## **Session 2: Approaches to Energy Efficient and Environmental Transition – Long-term solutions**

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### **2-1 JCM Project Finding Activity in the ASEAN Countries**

**Ms. Hitomi Tanikawa, Nippon Steel Research Institute Corporation (NSRI)**

**Mr. Kenji Kakumoto, Tokyo Century Corporation**

JCM is a subsidy program where the Japanese government can provide a subsidy when a company invests in a technology that contributes to reducing GHG emissions. As of 2021, Viet Nam, Indonesia, Myanmar, Thailand and the Philippines are JCM partner countries. This presentation will provide an overview of the JCM project identification survey conducted for the ASEAN steel industry, and introduce case studies on the application of JCM in ASEAN.

### **2-2 ISO: Introduction of Newly Proposed Standard**

**Dr. Toru Nagai, Nippon Steel Corporation**

*CO2 emissions from the iron and steel sector is large. Thus, we need to work on the reduction of energy consumption through energy efficiency and conservation measures, although our sector is thought to be one of the "hard-to-abate" sectors. For the energy consumption reduction, one of the issues is lack of practical guidelines on energy conservation for the sector. So, we propose a new standard on "Guidelines for Promoting Comprehensive Energy Efficiency and Conservation Measures in Steel Plants." New Work Item Proposal of the guideline is under voting at ISO TC17. In this presentation, the concept of the ISO will be introduced.*

### **2-3 New Trend: Carbon Neutral and Circular Economy in the Steel Sector**

**Dr. Shiro Watakabe, JFE Steel Corporation**

*The Japanese steel industry supports Japan's ambitious policy of achieving carbon neutrality by 2050 and it will aggressively take on the challenge to realize zero carbon steel by exploring multiple pathways including COURSE50*

*and ferro coke technologies plus CCUS, and development of super innovative technologies such as hydrogen based iron making, etc. ISO20915 provides the methodology for the calculation of the steel LCI reflecting steel's inherent superiority of recyclability. It helps to understand circular economy of the steel industry through "Life Cycle Thinking".*

*2-4 ASEAN Steel Industry's Strategy and Expectations toward AJSI Cooperation  
SEAISI/AISC Member Company or Group – Panel Discussion*

*Moderator from SEAISI*

*Panelist: Singapore, Indonesia, Thailand and/or Vietnam and Japan (tbc)*

*Panelists from ASEAN countries and Japan will have a round table discussion about steel sector's main strategy toward carbon neutrality in ASEAN. They will discuss Japanese steel plant engineering manufacturer's competitiveness against European and Chinese brand. They also confirm the expectation toward AJSI program in the future. (tbc)*