



# CCUS Solutions for the Steel Sector: Insight & Collaboration Trip to China

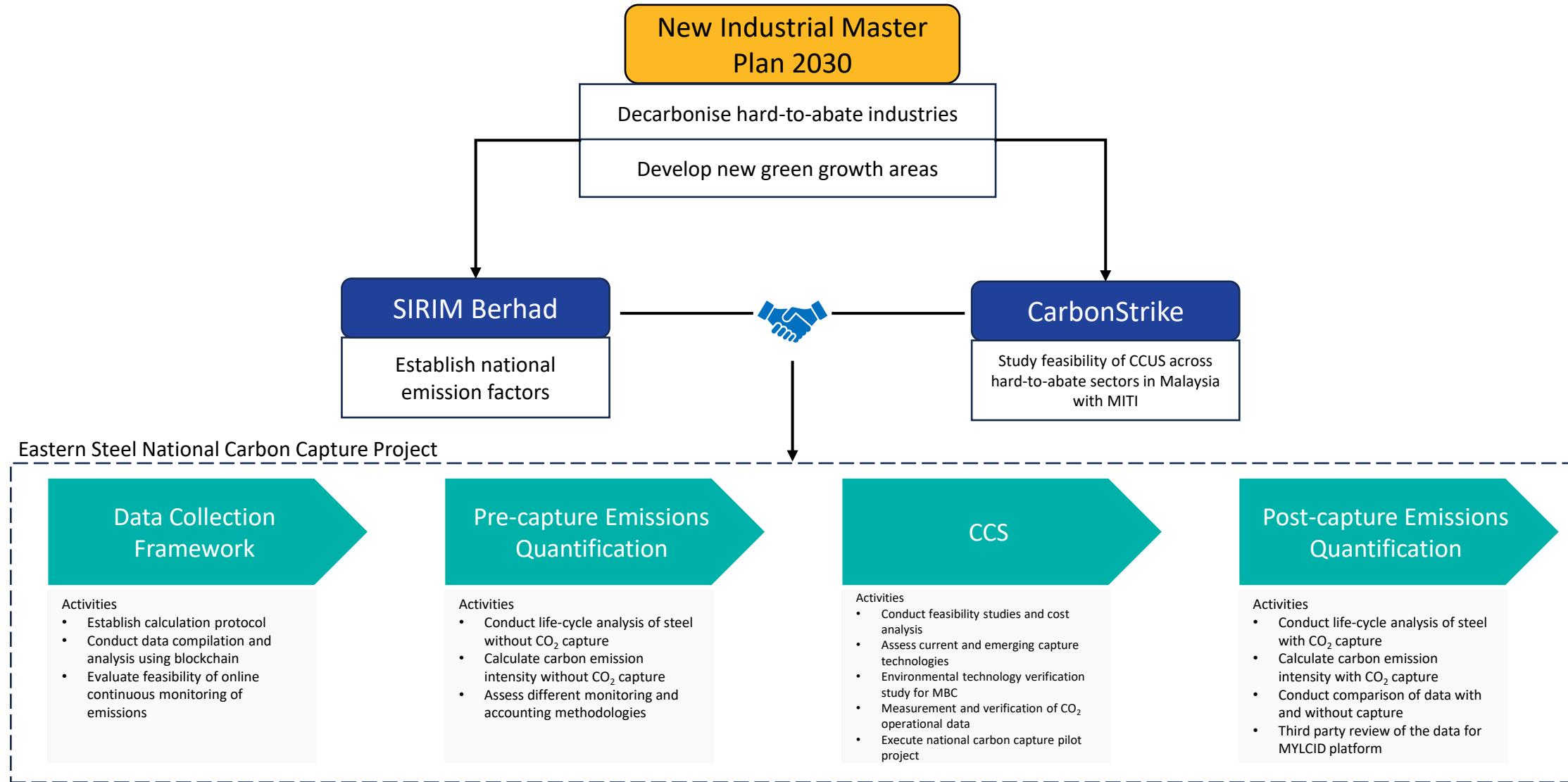
(25<sup>th</sup> - 29<sup>th</sup> November 2024)

The PETRONAS Group adopts zero tolerance against all forms of bribery and corruption. We abide by the PETRONAS Code of Conduct and Business Ethics (CoBE) & Anti-Bribery and Corruption (ABC) Manual, guided by our Shared Values and Statement of Purpose.

© 2024 Petroliam Nasional Berhad (PETRONAS)

All rights reserved. No part of this document may be reproduced in any form possible, stored in a retrieval system, transmitted and/or disseminated in any form or by any means (digital, mechanical, hard copy, recording or otherwise) without the permission of the copyright owner.

**Objective: SIRIM and CarbonStrike are collaborating to support NIMP 2030's goals, through the execution of the National Carbon Capture Project at Eastern Steel in Malaysia**



# Agenda in China

Date	Time	Proposed Brief Agenda	Purpose	Proposed Attendees	Address	Dress Code
25 <sup>th</sup> Nov 2024 (Monday)	8:55am-2:15pm	Travel from Kuala Lumpur to Shanghai International Airport		<ol style="list-style-type: none"> <li>1. MITI – <b>Puan Aedreena Reeza Bt Alwi</b> (Senior Director)</li> <li>2. <b>MITI – Nurul Husna Abdul Rashid</b> (Assistant Director, DMU)</li> <li>3. SIRIM – <b>Puan Isnazunita Bt Ismail</b> (Director)</li> <li>4. Eastern Steel – <b>Dato Tee Choon Hock</b> (Director)</li> <li>5. Eastern Steel – <b>Mohd Haniff Bin Ismail</b> (Project Manager)</li> <li>6. PETRONAS – <b>Christopher K Singham</b> (Head, Carbon Capture Technology)</li> <li>7. PETRONAS – <b>Khairul Rostani</b> (Technical Head)</li> <li>8. PETRONAS – <b>Sarah Bt M Afandi</b> (Project Lead)</li> <li>9. PETRONAS – <b>Phoebe Sim Pei Ping</b> (Commercial Contracts Lead)</li> </ol>	<b>Pudong Shangri-La Shanghai:</b> No 33 Fucheng Road, Pudong, 200120 Shanghai, China	Casual
	3:30pm	Travel from Airport to Pudong Shangri-La Shanghai (Check-in Hotel) (47mins by Car)				
26 <sup>th</sup> Nov 2024 (Tuesday)	9:00am-4:00pm	Visit EC Digital's Office and Discussion	Visit to EC Digital: <ul style="list-style-type: none"> <li>Assessing the potential integration of advanced Monitoring, Measurement and Verification (MMV) and carbon capture technologies for large-scale industrial applications</li> <li>Evaluating and reviewing the reporting in China</li> </ul>	<b>EC Digital:</b> 15F, Building A, Huazi Benteng Building, No. 2816 Yixian Road, Baoshan District, Shanghai, P.R. China	Professional Business Attire	

# Agenda in China – con't

Date	Time	Proposed Brief Agenda	Purpose	Proposed Attendees	Address	Dress Code
27 <sup>th</sup> Nov 2024 (Wednesday)	9:00am-12:00pm	Travel to Shanghai to Ningbo, Zhejiang (2hr 38min by Train)	Visit to Ningbo Iron & Steel Co Ltd: <ul style="list-style-type: none"> <li>To evaluate the energy intensity of crude steel production in relation to CO<sub>2</sub> emissions using Blast Furnace (BF) and Electric Arc Furnace (EAF) technologies to support the study of CO<sub>2</sub> emission factor for SIRIM and MITI</li> <li>To assess energy consumption at the Ningbo Plant based on ISO 14404 standards through collaboration with EC Digital Partner. The insights gained from this assessment can be applied to the Malaysian steel industry for retrofitting or building carbon capture system</li> <li>To propose for EC Digital to share the policy and standards in China for steel industries with SIRIM and MITI</li> <li>To support the NCC study in Malaysia and propose mechanism on Malaysia's carbon tax/CBAM using steel industry as a benchmark</li> </ul>	1. MITI – <b>Puan Aedreena Reeza Bt Alwi</b> (Senior Director) 2. <b>MITI – Nurul Husna Abdul Rashid</b> (Assistant Director, DMU) 3. SIRIM – <b>Puan Isnazunita Bt Ismail</b> (Director) 4. Eastern Steel – <b>Dato Tee Choon Hock</b> (Director) 5. Eastern Steel – <b>Mohd Haniff Bin Ismail</b> (Project Manager) 6. PETRONAS – <b>Christopher K Singham</b> (Head, Carbon Capture Technology) 7. PETRONAS – <b>Khairul Rostani</b> (Technical Head) 8. PETRONAS – <b>Sarah Bt M Afandi</b> (Project Lead) 9. PETRONAS – <b>Phoebe Sim Pei Ping</b> (Commercial Contracts Lead)	<b>Ningbo Iron &amp; Steel Co Ltd:</b> No. 168, Lingang 2nd Road, Beilun District, Ningbo City	Smart Casual
28 <sup>th</sup> Nov 2024 (Thursday)	9:00am-12:30pm	Travel from Shanghai to Nanjing (3hr 28min by Train)  (Check-in Shangri-La Nanjing)	<b>To visit PETRONAS's MBC Technology Manufacturer</b> (Nanjing Cas Bidun New Membrane Technology Co Ltd)	<b>Host: Mr. Du Lian/ Professor Kang</b>  All attendees from PETRONAS, MITI, SIRIM, and Eastern Steel	<b>Nanjing Cas Bidun New Membrane Technology Co Ltd</b> No. 59, Wangqiao Road, Xiongzhou Street, Luhe District, Nanjing City, Jiangsu Province, China	Smart Casual
29 <sup>th</sup> Nov 2024 (Friday)	6:50pm-12:30am	Travel from Nanjing to Kuala Lumpur				Casual

