



## Hydrogen Working Group Meeting

25 July 2022  
3.00 pm – 5.00 pm

180 Kitchener Road, #06-10, City Square Mall (Sky Park), Singapore 208539

No	Name	Company	Signature
1	Chiap Khiong Koh	Sembcorp Industries Ltd - SUT Division	Present
2	Naveen Selvam	ABS Group	Present
3	Vijay Sirse	Ampyr Energy Solutions Pte Ltd	Present
4	Sandra Seah	Bird & Bird ATMD LLP	AWA
5	Louis Lee	Bluefield Renewable Energy Pte Ltd	Present
6	Xander Pierik	Borouge PTE ltd	AWA
7	Chin Chien Chua	Bosch Thermotechnik	Present
8	Ashish Anil	Bureau Veritas Marine (Singapore)	Present
9	Eng Yew Yeoh	Bureau Veritas Singapore	Present
10	Benjamin Wu	Danfoss Singapore Pte Ltd	Present
11	Lian-Gee Chua	DNV	AWA
12	James Laybourn	DNV	Present
13	Jian Ming Cheang	EDF HQ Singapore Pte Ltd	Present
14	Laurence Kwan	EDPR-Sunseap APAC	Present
15	Senthil Kumar Karuppiah	ENERGI TRANZ PTE LTD	Present
16	Joseph Tan	Energreen Technologies Pte Ltd	Present
17	Ling GW	Energreen Technologies Pte Ltd	AWA

No	Name	Company	Signature
18	Wei Chee Liew	Environmental Resources Management (ERM)	AWA
19	Mark Eisenegger	Environmental Resources Management (ERM)	AWA
20	Indradi Soemardjan	Environmental Resources Management (ERM)	Present
21	Abhishek Kaul	IBM Pte Ltd	Present
22	Krishnakumar Nagarajan	IBM Pte Ltd	Present
23	Heng Seng Meng	ITE	AWA
24	Kenneth Low	ITOCHU Singapore Pte. Ltd.	Present
24	Wee Meng Tan	Jurong Port Pte Ltd	AWA
25	Errol Goh	Jurong Port Pte Ltd	Present
26	Colin Koh	LKH Precicon	Present
27	Kian Chye Kang	Luft Env Technologies Pte Ltd	Present
28	Ee Yoon Kuet	OceanMaster Engineering	Present
29	Kendy Siew	Oilmaster	Present
30	Alex Ng	Orcades Marine Asia	Present
33	Ken Tay	Rystad Energy Asia Pte. Ltd.	Present
34	Valerie Lee	Sembcorp Industries Ltd - SUT Division	Present
35	Gareth Wong	Sembcorp Industries Ltd - SUT Division	AWA
36	Lee Tse Luen	Sembcorp Industries Ltd - SUT Division	Present
37	Florence Yee	Sembcorp Industries Ltd - SUT Division	AWA
38	Zulhairi Pasuni	Sembcorp Solar Singapore Pte Ltd	AWA
39	Sunil Kumar	Siemens Energy Pte Ltd	Present

No	Name	Company	Signature
40	David Koh	Sumitomo Mitsui Banking Corporation	Present
41	Tias van Moorsel	Sumitomo Mitsui Banking Corporation	AWA
42	Jason Teoh	Sobono Energy Pte Ltd	Present
43	Yi Ming Law	Sun Cable Pte Ltd	Present
44	Srinivasan Sivaraman	TIPL	Present
45	Mei yee Chan	TUV SUD PSB Pte Ltd	Present
46	Clement Teo	TUV SUD PSB Pte Ltd	AWA
47	Joseph Dong Xia	TUV SUD PSB Pte Ltd	Present
48	Balakrishnan Ramesh Kumar	TUV SUD PSB PTE LTD	Present
49	Hitendra Shetty	Warstila Singapore Pte Ltd	AWA
50	Kevin Lee	YTL PowerSeraya	Present
51	Yatin Premchand	Black & Veatch (SEA) Pte Ltd	Present

	Description	Action By
1.	<p><u>Welcome and introduction by Ms Kavita Gandhi, Executive Director, SEAS</u></p> <p>Ms Kavita Gandhi (KG) welcomed everyone to the first meeting of the Hydrogen group and introduced the Chairman of the Group, Mr Koh Chiap Khiong, Head of Singapore, Southeast Asia and China. KG invited Chairman to say a few words.</p>	
2.	<p><u>Welcome Remarks by Chairman, Mr Koh Chiap Khiong, CEO of Singapore and Southeast Asia at Sembcorp Industries</u></p> <p>Chairman welcomed everyone to the meeting and shared that hydrogen industry will play an important role to meet Singapore ambitions to be net zero by 2050</p>	
3.	<p><u>Presentation by Mr Lee Tseluen, AVP, Group Strategy &amp; Projects, Sembcorp Industries Ltd - SUT Division</u></p> <p>Mr Lee presented on Sembcorp Industries and its activities, the different views on Hydrogen value chain in Singapore (production, transport and distribution</p>	

	<p>and end use), from low carbon intensity to greater carbon intensity and why hydrogen is one of the gateways to net zero.</p> <p>He also shared on the significant market potential in the future of hydrogen and its unique role in decarbonisation the power sector. Additionally, he shared that green hydrogen has huge cost reduction potential but there are technology challenges that has to be overcome by hydrogen in the future. After the presentation, he opened the questions to the floor.</p>	
4.	<p><u>Updates by Secretariat, Ms Kavita Gandhi, Executive Director, SEAS</u></p> <p>Ms Kavita Gandhi shared on the upcoming activities that SEAS is planning, including the business mission to Dubai, Asia Clean Energy Summit and PowerACE competition.</p>	
5.	<p><u>Hydrogen Working Group Workplan</u></p> <p>In the proposed activities for the Group to potentially explore on, members of the group expressed interest in White Paper, Training and Advocacy &amp; Engagement activities.</p> <p>1. <u>White Paper</u></p> <p>One of the proposed activity for the group is to produce a white paper to discuss the outlook of hydrogen in the sector. Before doing so, members shared that it is important to have discussions with government and policy makers to see what the plans for hydrogen in Singapore are, where are the timelines or milestones for the hydrogen sector and the roadmap for hydrogen targets.</p> <p>Some of the topics that should be addressed in the white paper are the digitalisation and logistic issues, applications in marine, power generation and transport, certificate of origin – how to guarantee the quality of hydrogen and creating demand for the industry.</p> <p>2. <u>Training</u></p> <p>Another activity that the group is looking at are the training and capacity building to re-train manpower so that they do not fall behind once the hydrogen motion takes place.</p> <p>KG shared that if there are any interests to develop training topics, members should approach SEAS secretariat.</p> <p>3. <u>Advocacy &amp; Engagement</u></p> <p>Members are interested to engage in sessions with MTI, EMA or ADB (an enabler for many countries) to potentially discuss standards for hydrogen. Chairman suggested to have networking sessions as well with these agencies.</p>	<p>Members to take part in survey to express which areas they are keen to contribute.</p> <p><a href="#">Survey link.</a></p>
6.	<p>As there were no other matters, the meeting concluded with thanks from the Chairman and participants at 5.00 pm.</p>	

Recorded by : Nur Asyiqin  
Vetted by : Kavita Gandhi  
Approved by : Koh Chiap Khiong