

Surfing the Hydrogen Wave in Southeast Asia – Insights from Europe & Germany

Thursday, 28 October 2021, 8PM-10PM (Singapore Time) / 2PM-4PM (CET)
Online Round Table

Hydrogen has emerged as a key stepping stone to fulfilling net-zero climate targets, and the past two years have seen a wave of ambitious national strategies designed to stimulate and accelerate the growth of hydrogen technologies. Some countries have even included support for hydrogen in their post-COVID-19 economic recovery programmes. When produced using renewable electricity, green hydrogen fills the energy transition's 'missing link' in pursuit of the decarbonisation of sectors – such as heavy industry and aviation – where emissions reductions were thought to be challenging. Yet, the overwhelming majority of hydrogen is currently produced via fossil fuels, with only miniscule proportions through electrolysis. Still in early deployment, electrolysis cannot currently produce sufficient hydrogen at affordable costs. The hydrogen strategies of Germany and the EU seek to support innovation to reduce the costs of green hydrogen production and expand renewable hydrogen technologies at large scale across sectors.

- What ripple effects might this wave of interest and innovation have on Southeast Asia's long-term policy visions?
- How will this impact the development and evolution of Southeast Asia's energy systems?
- While many Southeast Asian countries look towards natural gas as a vital tool to displace coal-fired generation and to meet future rising demand, atmospheric carbon budgets are rapidly depleting and leave little room for additional fossil fuels of any kind. Can hydrogen play a galvanising role in the shift from fossil fuels towards renewable energy in the region?

These questions form the basis of two think-tank roundtables organized by Agora Energiewende as part of the SIEW 2021. The first roundtable sets the scene with insights on hydrogen strategies from Germany and Europe explores current policy landscapes looking at what is required for Southeast Asian policy makers to consider hydrogen strategies. The second part focuses on the Hydrogen outlook and explores the role thinktanks will play in supporting policy makers by highlighting long-term technological and economic perspectives, and potential strategic pathways to achieve their goals.

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Moderation: Agora Energiewende	
20:00	Welcome and introduction Jesse Scott , Director International Programmes, Agora Energiewende
PART 1: Insights on hydrogen strategies from Germany, Europe and Southeast Asia	
20:10	Germany: Perspectives from Germany's hydrogen strategy Dr. Matthias Deutsch , Programme Lead, Agora Energiewende
20:20	Future of hydrogen in the transition to net-zero in the EU Dr. Gökçe Mete , Research Fellow, Stockholm Environment Institute
20:30	Hydrogen in ASEAN: Economic prospects, development & applications Beni Suryadi , Manager, Power Generation, Fossil Fuels, Alternative Energy and Energy Storage Department, ASEAN Centre for Energy
20:40	Southeast Asia: Potential for hydrogen application in SEA markets: Similarities and differences across the value chain, compared with European and German use cases and strategies Kenneth Kong , Senior Vice President, Group Strategy & Portfolio, Sembcorp
20:50	Questions and discussion
PART 2: Hydrogen outlook for Southeast Asia – long-term perspectives	
21:10	Hydrogen's role in Indonesia's Energy Transition Fabby Tumiwa , Executive Director, Institute for Essential Services Reform
21:20	Vietnamese Perspective Nhien Ngo , Executive Director, Vietnam Initiative for Energy Transition
21:30	Thailand Perspective Dr. Sumittra Charojrochkul , Energy Innovation Research Group Director, National Energy Technology Center Thailand (ENTEC)
21:40	Questions and discussion
22:00	END



Jesse Scott, Director International Programmes, Agora Energiewende

Jesse Scott is Director of International Programmes at Agora Energiewende. She leads Agora's work on the energy transition beyond Europe in major and emerging economies, including research projects, collaborations with country partner think tanks, and strategy. Before joining Agora in February 2019, Jesse worked at the International Energy Agency in Paris where she was a lead author of the Agency's pathbreaking report on the opportunities and risks of digitalizing the energy system. Prior to that, she worked for fifteen years in Brussels on European Union energy and climate policy-making, including as Head of Climate and Environment for the electricity sector association Eurelectric and as organiser of cross-sector advocacy to strengthen the EU Emissions Trading System from 2011 to 2014. Jesse's experience spans business, government, campaigning, law, and think tanks. She holds a degree and masters from Cambridge University and also studied in Italy at the European University Institute.



Matthias Deutsch, Programme Lead Hydrogen, Agora Energiewende

Matthias Deutsch is a Programme Lead at Agora Energiewende and concentrates on power and heat sector coupling, as well as on storage. From 2007 to 2015, he worked as a consultant at Prognos AG, focusing on renewable energy, energy demand, gas grid development and statistical analyses, with his clients including companies, industry associations and governmental authorities. Prior to working for Prognos, he has been employed at the Hertie School of Governance and the German Institute for Economic Research in Berlin. He is a graduate engineer in environmental technology (Berlin University of Technology) and holds a Ph.D. in policy studies from the University of Maryland School of Public Policy, USA.



Gökçe Mete, Research Fellow, Stockholm Environment Institute

Dr Gokce Mete is Head of Secretariat of the Leadership Group for the Industry Transition hosted by the Stockholm Environment Institute (SEI). LeadIT explores how policy, finance and business practices in hard-to-abate industry sectors can be aligned to achieve climate neutrality consistent with Paris Agreement and the latest scientific evidence from the IPCC. At SEI, she also project leads a new initiative co-creating evidence for oil and gas transitions in the North Sea, with specific focus on just transitions, technology relatedness, hydrogen, CCUS and offshore wind. Gokce has a decade of regulatory analysis, project development and stakeholder management experience focused on energy and industry transitions. She is also the Head of Research and Academic Engagement of the “Women in Energy, Climate and Sustainability Foundation” and Founding Member of the Women in Green Hydrogen Network.



Beni Suryadi, Manager, Power Generation, Fossil Fuels, Alternative Energy and Energy Storage Department, ASEAN Centre for Energy

Beni Suryadi is manager of the Power, Fossil Fuels, Alternative Energy and Energy Storage Department at the ASEAN Centre for Energy (ACE), an intergovernmental organisation within the ASEAN structure representing the 10 ASEAN Member States’ interests in the energy sector. He leads various programmes and studies to support the countries in the energy transition under the umbrella of the ASEAN Plan of Action for Energy Cooperation (APAEC) 2016-2025, a regional blueprint on energy cooperation. He is the project manager of the ASEAN Climate Change and Energy Project (ACCEPT), the first integrated ASEAN’s energy and climate change project, to support ASEAN in improving the coherence between the ASEAN energy and climate policies and contributing to more climate-friendly development of the energy sector. He is a co-author of the Hydrogen in ASEAN: Economic Prospects, Development, and Applications.

He also led the development of the ASEAN Interconnection Masterplan Study (AIMS) III, the regional blueprint for electricity interconnection in the region. Previously, he was Team Leader on the development of the ASEAN Energy Outlook (AEO).

	<p>In addition to the official ASEAN works, he is also a member of the Sustainability Advisory Council of Gojek, Agence française de développement (AFD) Indonesia Advisory Board, Steering Committee of the Global Consortium on Power System Transformation (G-PST), and Non-Resident Fellow of the U.S.'s based think tank Energy for Growth.</p>
	<p>Kenneth Kong, Senior Vice President, Group Strategy & Portfolio, Sembcorp</p> <p>Kenneth Kong is Senior Vice President of Group Strategy & Portfolio at Sembcorp Industries. He supports Sembcorp's leadership team by creating and driving corporate strategic initiatives relevant to the current and future energy landscape. This includes integrated strategy development, energy value chain optimisation, new market evaluation (including for emerging technology applications for hydrogen), capital allocation and portfolio governance. Kenneth has over 20 years of global experience in the energy industry having worked in diverse markets such as Malaysia, the Netherlands, UK and Australia. Before joining Sembcorp, Kenneth was Head of Strategy and Portfolio for BP Asia Pacific Fuels, and was responsible for corporate strategy development. Kenneth also led the development of renewable hydrogen initiatives in BP's Asia Pacific business. He has expertise in both the upstream and downstream sectors including strategic planning, project management, organisational performance turnaround, supply chain optimisation, market entry, retail network planning, and divestments and acquisitions.</p>
	<p>Fabby Tumiwa, Executive Director, Institute for Essential Services Reform</p> <p>Fabby Tumiwa is an Executive Director of Institute for Essential Services Reform (IESR), an Indonesia think tank in energy policy and environment. IESR advocates for the low carbon energy transition in Indonesia. Fabby has been working on energy policy extensively for 20 years. During this time Fabby conduct numerous policy studies and advises various Indonesia government agencies, business, and NGO, as well as multilateral development organisation in electricity, renewable energy and energy efficiency policy and regulation, and climate change strategies. A solar enthusiast, Fabby is a founder of Indonesia Solar Energy Association (ISA) and currently he is the Vice Chairman of Policy and Regulatory Affairs of the Association. He studied electronic engineering and natural resource governance.</p>

 A portrait of Ngo To Nhien, a woman with short dark hair and glasses, wearing a red top. She is smiling slightly and looking towards the camera.	<p>Ngo To Nhien, Director, Vietnam Initiative for Energy Transition</p> <p>Mrs. Ngo To Nhien graduated in Engineer of Informatics Electronics, Hanoi University of Technology, Vietnam; Master of Science in Sustainable Energy System and Management, University of Flensburg, Germany. She got educated on Sustainable Energy Management and Planning at Aalborg University, Denmark; Energy Management and Clean Production for SMEs at the University of Twente, Netherlands. In 2012, she was the first Vietnamese to receive an honorary fellowship from the International Climate Protection Program sponsored by the Alexander von Humboldt Foundation. Ms. Nhien has more than 25 years working on different science and sustainable energy system. She regularly contributes science papers at international conferences on renewable energy development and climate protection. She is currently working as Executive Director of the Vietnam Initiative for Energy Transition (VIET).</p>
 A portrait of Sumittra Charojrochkjul, a woman with dark hair and glasses, wearing a dark blazer over a light-colored top. She is smiling and looking towards the camera.	<p>Sumittra Charojrochkjul, Energy Innovation Research Group Director, National Energy Technology Center</p>