

Virtual Workshop Agenda

The path toward a hydrogen economy: how industry can broaden the use of hydrogen

Venue: Virtual workshop, Zoom
Date: July 8-9, 2020
 Riyadh time (GMT+3)

Wednesday July 8th, 2020

3:00 p.m. – 3:10 p.m.	Opening remarks
	<p>3:00 p.m. – 3:10 p.m.</p> <p>Welcome – Fahad Al-Turki (KAPSARC)</p> <p>Introduction – Coby van der Linde (CIEP)</p>
SESSION 1	<p>3:10 p.m. – 4:10 p.m.</p> <p style="background-color: #cccccc;">Role of hydrogen in the circular carbon economy (moderates Fahad Al-Turki, KAPSARC)</p> <p>Around 96% of hydrogen production comes from fossil fuels contributing more than 2% of global CO₂ emissions. Renewable energy sources and electrolyzers need cost to decline further for green hydrogen to become viable at a large scale. CCS is a key mitigation technology to decarbonize this sector but also needs to scale up to bring the cost down. Both green and blue hydrogen would be essential in producing clean hydrogen and meeting climate goals.</p> <ul style="list-style-type: none"> • What is the role of hydrogen in a circular carbon economy? • Can resource rich countries contribute to the hydrogen economy? • Which industries can get economic value benefits from CO₂? <p><u>Speakers:</u> Rami Shabaneh and Colin Ward – KAPSARC Dr. Aqil Jamal – Saudi Aramco</p>

SESSION 2	4:10 p.m. – 5:10 p.m.
	Supply chain challenges and security of supply (moderates Fahad Al-Turki, KAPSARC)
	<p>It is important to meet climate goals while safeguarding energy security. For a fuel such as hydrogen to be accepted, security of supply and infrastructure are going to be very important components to address. Transporting and storing hydrogen presents one of the biggest challenges. Shipping options and using existing natural gas networks (pipeline and storage) are being examined.</p> <ul style="list-style-type: none"> • How to connect regional markets and hydrogen hubs? • To what extent can current infrastructure be used? • How do we deal with safety concerns in transporting and storing hydrogen? <p><u>Speakers:</u></p> <p>Noe van Hulst – Dutch Ministry of Economic Affairs</p> <p>Frank Wouters – Worley</p>

5:10-5:15 p.m.	Closing remarks
-----------------------	------------------------

Thursday July 9, 2020

SESSION 1	3:00 p.m. – 4:00 p.m.
	Policy structures and strategy design (moderates Coby van der Linde, CIEP)
	<p>The biggest challenge for alternative energy sources, including hydrogen, is cost and scale. In order for hydrogen to become a low-cost option, policy support is a crucial first step to gather momentum to scale up the technology.</p> <ul style="list-style-type: none"> • What are the key policy instruments required to incentivize fast deployment of clean hydrogen production? • Are there any lessons learnt from the experiences seen in electrification with renewable energy in the last decade? • What regulations are needed to make these projects bankable? <p><u>Speakers:</u></p> <p>Alena Fargere - SWEN Capital Partners</p> <p>Ad van Wijk – TU Delft</p>

SESSION 2	4:00 p.m. – 5:00 p.m.	
	Future business and investment models for hydrogen (moderates Coby van der Linde, CIEP)	
	<p>Hydrogen has been placed at the forefront to decarbonize hard-to-abate sectors such as transport, industry, and buildings. The energy transition will be a blend of alternative fuels, feedstocks and electrification</p> <ul style="list-style-type: none"> • In which sectors or subsectors is hydrogen likely to emerge as the favoured solution? • How do development pathways for hydrogen as feedstock and for energy use differ? • Where are the investment opportunities for hydrogen? <p><u>Speakers:</u></p> <p>Ruud de Jongh and Mattijs Slee – Shell</p> <p>Craig Knight – Horizon Fuel Cell</p> <p>Wa’el Almazeedi – Avance Labs</p>	
5:00-5:05 p.m.	Closing remarks	