

"The world faces a dual challenge: Meeting growing energy demand while reducing greenhouse gas emissions and carbon capture, utilization and storage is a key solution for both challenges."
~ Arab News, 27 Sept 2021

The world is working in tandem to minimize carbon dioxide emissions from current and future operations, as it looks to commercialise and scale-up CO2 utilization in various applications.

CMT's **Advancing CO2 Utilization** explores the latest on policy and regulations, that can affirm growth in carbon dioxide utilization, as well as what business models and how Carbon Contracts for Differences (CCfD) can be a booster to the industry.

Spanning across a diverse spectrum, several partnership within the same industry and cross industrial clusters have been formed to look at the technology development and collaboration, LCAs and pilot plants, all with the common goal of commercialisation and decarbonisation.

Through case studies and technology exploration, the agenda showcases uses of CO2 in production of algae and protein for food, feed and biofuels, CO2 to chemicals, minerals and concretes for construction materials, and other market potentials too.

Join us at **14:00 CET (GMT +1) / 09:00 EDT (GMT -4)** on **3 November**.

Email grace@cmtsp.com.sg if you require more information and/or wish to register.



Virtual Networking Interactions



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Advancing CO₂ Utilization

3 NOV 2021, 14:00 CET (GMT+1) / 09:00 EDT (GMT-4)

3 NOVEMBER 2021, WEDNESDAY

14:00 CMT & Moderator's Welcome
Claire Thornhill, Associate Director
Frontier Economics

14:10 Milligrams to Megatons: Forecasting the Adoption of CO₂ Utilization

The emergence of global initiatives to curb rampant CO₂ emissions has led to a boom in innovation interest in CO₂-related technologies, spearheaded by several consortiums promoting advances in carbon utilization. While often considered long-term science projects, a closer look at the CO₂ utilization space reveals a range of opportunities from near- and mid-term building materials to longer-term synthetic fuels production.

In this presentation, we will present an overview of innovations occurring in CO₂ utilization, highlighting promising technology developers gaining momentum in reaching commercial readiness, and highlight opportunities specific to the Asia-Pacific market as the region embarks on its journey to carbon-neutrality. Runeel Daliah, Analyst - Hydrogen & CCUS
Lux Research Inc

14:40 Policies & Business Models for CCUS & the Potential Role for Carbon CfDs

- What are the key attributes of policies to encourage CCUS?
- The advantages and disadvantages of CCFDs
- Examples of CCFDs in the Netherlands, Germany and the UK

Claire Thornhill, Associate Director
Frontier Economics

Catherine Galano, Associate Director
Frontier Economics

15:10 **Sustainable Concrete from CO₂**
Ryan Bourns, Business Strategy & Development Lead
Carbon Upcycling Technologies Inc.

15:35 Virtual Networking Interval I

15:55 Algae, CO₂ Utilization & Animal Feed

- Technology
- Partnerships
- Opportunities

Peter Howard, Vice President Project Development
Pond Technologies

16:25 CO₂ Transformation to Food & Feed (Alternative Protein Ingredients)

- How NovoNutrients addresses two key global issues:
 - 1) Too much CO₂ emitted;
 - 2) Growing demand for more protein in the human diet without depleting the world's wild fish population
 - Types of waste industrial gases most suitable for the NovoNutrients technology
 - Products produced by the NovoNutrients technology and cost effectiveness of the process
- Kumiko Yoshinari, Senior Vice President,
Strategic Partnerships & Finance
NovoNutrients

16:55 CarbiCrete: Concrete Carbon Removal

- Eliminating cement-related emissions
 - Eliminating a waste by-product from steel-making
 - Permanently removing and using CO₂ in concrete
- Chris Stern, CEO
CarbiCrete

17:30 Final Discussion & Virtual Networking Interval II
CMT MEET (Virtual Networking Platform) remains open for ALL Speakers and Attendees can continue your interaction and discussions, for the next 24 hours