

Carbon Capture and Storage (CCS)

Client discussions/workshops by Sund Energy

Carbon capture is becoming a solution that more and more countries are considering as a significant contributor to reducing CO₂ emissions. Sund Energy has worked for many companies and authorities on this topic, both technical and commercial/regulatory aspects, and our team has expertise in both of these areas. Based on the work we have done, we are now offering short workshops on the topic, both to provide an overview of policies, technologies, current as well as possible future developments.

Over the last decade many CCS projects were initiated and cancelled due to the high cost of CO₂ capture. Some developments were based on pre-combustion technology and a few on oxy-fuels. However, the bulk of development concepts were based on post combustion, because it is the most mature technology and can be applied for both new and existing plants. Many post combustion CO₂ capture pilot plants were built all over the world, but the commercial scale plants were not built other than for the urea production or beverage industries.

There are many post combustion CO₂ capture technologies, some well established and some fairly new, and all claim that they are superior compared to the conventional technologies. A challenge is that technology developers keep their solvent and heat integration options secret. Essentially all the technology providers use the conventional 30% MEA solution as a basis of comparison and all come out some 20 to 30% better in either the CAPEX investment, utility consumption or both. It gives a false comfort for the developers and an unpredictable picture for the end users.

- **Technology**

The main presenter of this seminar, KJ Li, has worked with most of the technology developers on actual projects ranging from cold Norwegian environment to the hot Middle Eastern climates. He is the inventor of a few patents on power plant and capture plant integration. Although he cannot share the developers' confidential information, he is in a very good position to predict the future trend and the direction of CO₂ capture technology development.

- **Policy, commercial and other aspects**

The other presenter, Karen Sund, has worked with the climate issue in an energy context for more than 20 years. How will climate policy impact energy consumption, costs of operating, and "winning" fuels and technology in the future? We have supported both authorities and companies in making strategies robust by understanding both opportunities and challenges in a more climate-focused world.

The seminar is about half a day with an optional extra half a day to address specific client issues. We are offering the seminar at € 10,000 + travel to your chosen site (VAT is added for clients in Norway). Tailoring is possible at additional cost: What does it mean for your current business and future strategy?

Please contact us to order or find out more: Karen Sund, +47 91786928, karen@sundenergy.com