



28-29 April • Cologne (Germany)

Speaker: Maike Lambarth, Cyclize Gmbh

Title: Cyclize: Enabling a Carbon Circular Economy Through CO2 and Waste Conversion

Abstract:

Cyclize presents an innovative solution for advancing the carbon circular economy by converting CO2 and waste into syngas—a mix of carbon monoxide and hydrogen, which serves as the primary building block for the chemical industry. Leveraging our patented plasma technology, Cyclize replaces the need for natural gas by recycling carbon atoms, including those from CO2 and non-recyclable waste. The process uses up to 5 kg of CO2 as feedstock per kg of waste, ensuring an overall CO2-negative footprint. Notably, our technology requires no green premium at scale to produce non-extractive-fossil syngas. This breakthrough offers a scalable pathway to mitigate climate change and create a sustainable, circular carbon economy.