

Abstract Doris Hafenbradl:

Electrochaeta is developing a disruptive grid-scale energy storage technology. Our power-to-gas (P2G) process converts CO₂ and low-cost or stranded electricity into pipeline-grade methane for direct injection into the existing natural gas grid using a biological catalyst. Our solution allows lower operating and capital costs and greater scalability and operational flexibility than comparable energy storage technologies. The pathway from the laboratory all the way to scale up will be discussed.