Commercialization of Offshore CCS in Gulf of Mexico

CCS Technical Workshop (Virtual)

Japan CCS workshop, January 27, Tokyo 10:50-11:40, January 26, Texas 19:50-20:40.

Abstract: Following the recent advances of Norway and Japan on offshore CCS, the Gulf of Mexico in the United States is rapidly developing a number of CCS hubs for offshore storage or industrial CO_2 emissions. After providing some global perspectives on offshore CCS potential, this presentation will describe the current CCS landscape in the Gulf Coast, with focus on offshore storage capacity potential and examples. The presentation will briefly cover current tax incentives (45Q) for project development, which is currently the main economic driver of projects in the United States.

Dr. Tip Meckel is a senior research scientist investigating geologic carbon storage for the Bureau of Economic Geology at The University of Texas at Austin. During his 15 years with the Gulf Coast Carbon Center at the Bureau he has led research focusing on geologic characterization, structural geology, monitoring design, and pressure evolution for CO2 injections. He has been directly involved with many large-scale field demonstration projects funded through the DOE-NETL Regional Carbon Sequestration Partnerships. After early exposure during the FRIO tests east of Houston in 2006, he co-directed the research program for the SECARB CO2-EOR demonstration project in Cranfield Mississippi, and currently leads the research initiative to identify offshore sequestration potential in the Gulf of Mexico with focus on capacity assessment and high-resolution 3D marine seismic monitoring technologies. Dr. Meckel works closely with offshore CCS developments in Japan and the North Sea. He was a contributor to the 2019 *National Petroleum Council* study on CCUS, and participated in the formation of the Society of Petroleum Engineer's *Storage Resource Management System* (SRMS). Since 2008 he has been PI or Co-PI on 16 CCS grants totaling over $70 million dollars. PhD - UT Austin, MS - Univ. MT.