

Introduction to Cost-shared Research

A portion of the GCEP portfolio development and maintenance goes towards cost-shared research. Participation in cost-shared research serves as an extension of GCEP-related work and leverages funds from third parties including government agencies and companies outside of the Sponsor organizations. GCEP contributed to two consortia: the Bay Area Photovoltaic Consortium (BAPVC) and the Stanford Center for Carbon Storage (SCCS). The GCEPS funding of BAPVC came to an end in a previous year and this year GCEPs funding of SCCS will be ending. SCCS will continue through support by industry affiliates.

SCCS was established in 2011 to address a multitude of scientific questions for large-scale CO₂ storage. The center is supported by industrial affiliates and led by Professor Anthony Kavscek, a professor of energy resources engineering in the School of Earth Sciences and is comprised of 13 faculty plus their associated graduate students. The research is broken into the four categories of 1) geochemical processes and permanent storage, 2) monitoring, 3) improved process modeling for design, operation and risk assessment, 4) co-optimized enhanced oil and gas recovery with CO₂ sequestration. ExxonMobil and Schlumberger represent GCEP at SCCS meetings. Among other activities, SCCS offers annual review meetings, workshops, short courses and a sabbatical program for visiting researchers. Their report summarizes five projects supported by GCEP.