Gulf Coast Resource Accelerator

A Field Lab for the Energy Transition

Susan D. Hovorka and Alexander P. Bump
Gulf Coast Carbon Center, Bureau of Economic Geology, The University of Texas at Austin
alex.bump@beg.utexas.edu | susan.hovorka@beg.utexas.edu

Vision: Next-generation field lab to support commercial growth with targeted experiments to reduce costs, accelerate project development, lower risk and reassure public and regulators

Why is the resource accelerator needed?

- Reduce cost via reducing permitting and operational uncertainties
- Prepare for coming 5-year reviews - reduce uncertainty and delays
- Demonstrate effectiveness of fit-to-purpose and tiered monitoring to reduce future costs
- Reduce risk from competing uses of the subsurface
- Next generation field lab – commercial support rather than pilot or science-oriented lab

Next Steps:

- Working group to define needs and find a viable approach
- Geotechnical/permitting/ financial/governance
- Plan path with federal/state agencies, permitting authorities

Contact:
alex.bump@beg.utexas.edu
susan.hovorka@beg.utexas.edu

Elements of a successful field site:

- Typical Gulf Coast heterogeneous, high-compressibility, faulted clastic reservoirs
- Array of legacy wells and new holes for testing and experiments
- Fluid injections (CO_2, water, tracers) to test migration, stabilization, well and fault performance pressure response pressure interactions
- Vehicle access suitable for visiting government leaders, policymakers, school groups and public