

NEWSLETTER

Q2 2026 APRIL-JUNE



Lamar University's Chemical Engineering Summer Camp (ChemE Camp) hosted 22 high-school students to learn about CCS through hands-on experiments, discussions about the energy transition, and visits to regional industrial sites along the Texas Gulf Coast..

TXLA CMC Universities

[Lamar University](#)

[Louisiana State University](#)

[Texas A&M University-Corpus Christi](#)

[Texas A&M University-Kingsville](#)

[The University of Texas at Austin](#)

[University of Houston](#)

OUTREACH IN ACTION

This quarter brought continued growth in outreach, education, and collaboration across communities, schools, universities, and industry. Through Earth Day events, hands-on K-12 activities, public engagement, and professional forums, our partners made carbon capture and storage (CCS) information more accessible to diverse audiences. Activities ranged from demonstrations of CO₂ and geologic storage to technical discussions about project development, policy, safety, and emerging technologies. Together, these efforts connected CCS with broader conversations about sustainability, energy security, carbon management, and community resilience.

We are also proud to introduce a new online CCS resource developed by the Harte Research Institute at Texas A&M University-Corpus Christi. The toolkit brings together information about CCS, frequently asked questions, the geological significance of the Gulf Coast, safety and monitoring practices, and additional public-facing resources, including a recorded webinar and an interactive map. Turn to page 2 to learn more and explore these new resources.

Project Information

This project is funded for 2024 through 2027 by the Department of Energy's National Energy Technology Laboratory (DOE-NETL) project DE-FE32361.

Join our Phonebook

Click or Scan



Our phonebook connects you to others in the CCS community, enabling meaningful outreach and collaboration.

Please feel free to share our newsletter with anyone interested in joining the directory to foster connections.

Harte Research Institute: CCS Toolkit

CCS Resources

Learn more about carbon capture and storage in the Texas Coastal Bend through a collection of resources. The resource tool addresses key questions, including: What is CCS? Why is it being used? Where can I find more information? It also covers safety measures and monitoring, features an informational webinar, and provides access to an interactive online map.

Carbon Capture & Storage: Facts and Data Sources

Page dedicated to providing information resources to the Coastal Bend community

Diana Del Angel, PhD
June 10, 2026



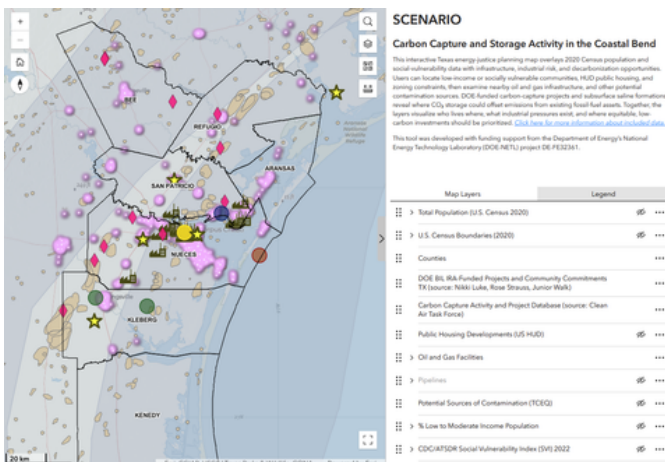
Facts and Resources

Explore this interactive toolkit to learn about CCS and why the Texas Gulf Coast—specifically the Coastal Bend—is being considered for CCS development. Find information about proposed projects and permitting activities, potential risks, safety measures, monitoring tools, and links to additional resources.

GeoRED

The GeoRED (Geospatial Resilient Economic Development) tool is an open-access online mapping platform providing geospatial data about the Coastal Bend's environment, land use, hazards, economy, and communities.

The CCS Scenario map combines census and social-vulnerability data with information about energy infrastructure, industrial risks, zoning constraints, and decarbonization opportunities. Its layers help users understand who lives near existing industrial activity, where potential environmental pressures are located, and where equitable, low-carbon investments could be prioritized.



What is Carbon Capture and Storage

CCS is a set of technologies that:

- Capture CO₂ emissions from power plants and industrial facilities
- Transport the captured CO₂, usually by pipeline
- Permanently store CO₂ deep underground in rock formations

Purpose: Reduce CO₂ emissions before they enter the atmosphere and prevent warming effects.

HARTE
Harte Research Institute

TXLA CMC

Webinar

Watch the Carbon Capture Information Webinar, featuring a panel of TXLA CMC scientists answering community questions about CCS technology, effectiveness, and need.

Developed in response to a public survey, this webinar addressed community questions about how CCS works; environmental and public safety concerns, such as groundwater protection, seismic activity, and potential CO₂ leakage; and long-term stewardship and monitoring. It also covered economic and policy considerations, alternative climate strategies, and opportunities for community involvement in proposed Coastal Bend projects.

Engaging Communities

Across the Gulf Coast: Earth Day, Coastal Roundup, and Energy Solutions

This quarter, our teams connected with students, families, communities, researchers, and industry professionals through outreach events and technical forums across Texas. From hands-on CCS demonstrations to discussions about carbon management and evolving energy solutions, these activities made complex topics more accessible, encouraged informed dialogue, and strengthened connections.

Earth Day–Bay Day

TXLA CMC researchers joined the Coastal Bend Bays Foundation's annual Earth Day–Bay Day celebration at Heritage Park in Corpus Christi. Through hands-on demonstrations and accessible educational materials, they introduced visitors to climate change, carbon capture and storage (CCS), and the science of storing CO₂ safely underground.



Ramón Treviño demonstrated CCS concepts using a model of the Earth's subsurface, rock samples, and an injection well.



Jingbo Louise Liu and Jong-Won Choi explained the impacts of rising global temperatures and the role of CCS through demonstrations.

Offshore CCS and New Frontiers



Credit: Ben Hilton

The National Ocean Industries Association and Offshore Operators Committee hosted "Offshore CCS & New Frontiers" at Rice University's Baker Institute Center for Energy Studies. The opening presentation titled 'The State of Gulf Coast CCS', prepared and delivered by Alex Bump, examined the need for CCS, the evolution of Gulf Coast policies and projects over the past five years, current trends, and the outlook for future development. The event also explored offshore resource management, ocean minerals, artificial intelligence, and federal regulatory updates. Approximately 200 attendees representing major oil companies, independent operators, offshore wind, seabed mining, and AI participated, with strong interest in the business case for CCS and the permitting process.

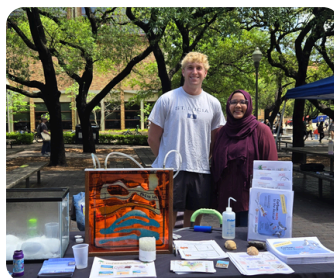
Coastal Roundup



Susan Hovorka shared educational resources and displayed 3D seismic survey examples at the Texas General Land Office's Coastal Roundup in Galveston. The event brought together nearly 40 organizations to showcase efforts to protect the Texas coast through interactive exhibits, demonstrations, and hands-on activities.

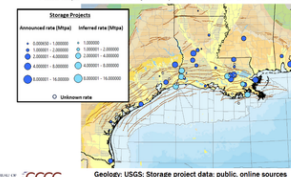
Hooked on Earth Day

UT students Cecil Armstrong and Farzana Rahman joined dozens of students, organizations, and community members for UT Austin's Hooked on Earth Day Fair. Participants came together to explore practical approaches to sustainability on campus, including the GCCC's research on CCS.



Announced Injection Rates, 2024

>330 Mtpa in announced injection plans and over 12 Gt in claimed storage capacity!



Geology: USGS; Storage project data: public, online sources

Initial assessments estimate announced project injection rates on the Gulf Coast at hundreds of Mtons per year.

Engaging Communities

UH Energy Forums



Source: UH Energy

The University of Houston's Center for Carbon Management in Energy (UH CCME) hosted and co-hosted three separate events that brought together researchers, industry leaders, government representatives, nonprofit organizations, and other stakeholders to examine the future of carbon management and lower-carbon energy systems.

The *Revitalization of Old Oil Fields: Risks and Rewards* symposium examined the opportunities and challenges associated with redeveloping legacy oil fields. Expert panels discussed aging infrastructure, well integrity, regulatory frameworks, liability, insurance, field-redevelopment strategies, project economics, and the allocation of 45Q tax credits across CO₂ capture, transportation, and storage.

Additionally, UH CCME and the Stanford Center for Carbon Storage co-hosted a CO₂-EOR forum attended by more than 350 participants. Speakers discussed how existing infrastructure and decades of operational experience could help connect conventional energy systems with lower-carbon strategies. Breakout sessions identified community engagement, public acceptance, supportive policies, and credible external advocacy as key priorities.

A third technical forum, hosted with the Plains CO₂ Reduction Partnership, convened hundreds of industry experts, researchers, and stakeholders. Sessions explored the commercialization of CCUS and the role of CO₂ Enhanced Oil Recovery (CO₂-EOR) in unconventional reservoirs and lower-carbon oil production. Technical topics included CO₂ transportation, injection-well materials, system modeling, pipeline impurities, simulated release scenarios, and emergency response. Participants also examined Class VI well permitting, 45Q reporting, legacy well behavior in the Gulf Coast, geomechanics, induced seismicity, monitoring technologies, subsurface risk, and field demonstrations.

Collectively, the events created opportunities to share technical knowledge, consider emerging commercial pathways, and discuss the regulatory, economic, environmental, and community factors that influence project development. Click below for more details.

Learn more about each event here →

Revitalization of Old Oil Fields: Risks and Rewards. UH Energy Symposium Highlights Industry Perspectives on Legacy Assets and CO₂-EOR

CO₂-EOR Forum by Stanford Center for Carbon Storage and UH Energy Highlights Solutions for Energy Security and Lower-Carbon Fuels

UH Energy Collaborates with PCOR Partnership on CCUS Technical Forum to Highlight Advances in Carbon Management and Deployment Strategies

Questions or Comments?

Reach us at the Gulf Coast Carbon Center at the Bureau of Economic Geology.

Email: TXLACMC@beg.utexas.edu

Leave a Comment: <https://forms.office.com/r/xAGXyxRtJt?origin=IprLink>

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