

Where are you on CCS?

Come talk to *us* about the potential for carbon capture & storage (CCS) and how we can help

What is CCS?

Where is CCS today?

What is CCS?
Carbon capture and storage (CCS), also known as Carbon Capture, Utilization and Storage (CCUS), is a low carbon technology that captures carbon dioxide (CO₂) emissions from man-made or anthropogenic sources (e.g., power generation to iron, steel, fertilizer, cement, and chemical manufacturing, etc.). CO₂ is then compressed, transported via pipeline or ship, and subsequently injected deep (0.8 to 3 kilometers) below the surface for permanent underground storage. This process prevents anthropogenic CO₂ from entering the atmosphere and safely stores CO₂ permanently underground.

For local industries, CCS supports jobs and business investments by providing infrastructure to allow effective large-carbon emission reductions while also helping develop local infrastructure and resources.

We invite you to:

- Use your electronic device to scan for a link, watch a video, download a helpful CCS document, or take a photograph to learn more about CCS.
- Leave a business card or a note requesting more information.

We are here for you!
www.gulfcoastcarbon.org

CO₂ is stored 0.5 to 1.9 miles, (0.8 to 3 km) below the surface, safely, and permanently

Learn about CCS and what needs to happen to make drastic reductions in emissions long term

Watch and listen here

SUCCESS IS MEASURED IN METRIC TONS STORED

Researchers at the Bureau of Economic Geology, at the University of Texas at Austin, study an emissions mitigation technology called carbon capture and storage (CCS). By capturing carbon dioxide emissions at the source and storing them permanently deep in the Earth, we can achieve drastic reductions in our emissions. We must act now.

~ 1.5 Minute Video: <https://www.youtube.com/watch?v=2ksTgCVtIA>

Watch a short video describing the Carbon Capture & Storage (CCS) process

Learn more here

CCS is a way of mitigating the contribution of fossil fuel emissions by capturing and subsequently storing CO₂.

~ 3 Minute Video: <https://www.youtube.com/watch?v=A-LodmuWJ3c>

We need CCS to remove carbon dioxide from our day-to-day lives: How do we reach net zero by 2050?

Watch and listen here

CCUS
Enabling a clean and sustainable future for all

This animation explains how CCS works and the value of reducing emissions and achieving net zero carbon dioxide by 2050 across all industries within the U.K.

~ 3 Minute Video: <https://www.youtube.com/watch?v=hnAjktDZik>

See Virtual Tour of the Boundary Dam Capture Facility in Saskatchewan Canada

Watch and listen here

The 1st large-scale capture project on a coal-fired power plant, capturing more than 1 Megatonnes per annum (Mtpa).

~ 9 Minute Video: <https://ccsknowledge.com/bd3-ccs-facility/virtual-tour>

Subscribe to the IEAGHG Newsletter to get the latest information on CCS

Get a copy here

Greenhouse News
the official newsletter of IEAGHG and its members
March 2022 - Issue 141

Greenhouse News is a free e-Newsletter providing information on new developments in the field of greenhouse gas abatement and mitigation.

<https://ieaghg.org/ccs-resources/greenhouse-news-newsletter>

A Summary of CCS Projects Around the World

From the Global CCS Institute's 2022 Global Status Report

According to the Global CCS Institute, as of September 2022, there are 30 operational projects currently storing 40 megatonnes per annum (Mtpa).

An additional 164 projects with the potential to store 200 Mtpa are currently in development.

CCS Projects that are Currently Operational

CCS Projects that are in Development or Under Construction

Legend: ● Operational ● Early Development ● Advanced Development ● In Construction

<https://status22.globalccsinstitute.com/about-the-report/>

Educational Resources

Contact Us

Gulf Coast Carbon Center's (GCCCs) Research Consortium & Educational Training Sessions

Get info here

We have a scientific consortium, which requires a membership fee, and we offer training courses about CCS inside and outside the consortium.

Sponsors of the GCCC Consortium benefit from two biannual meetings a year to provide updates on our latest CCS research and developing trends. Sponsors gain access to an Industrial Affiliates Portal, where we provide .pdfs of all of our research group's presentations from various meetings and events throughout the year. Sponsors are given priority attention and support regarding their CCS projects, training, and outreach.

We educate the next generation of CCS professionals, and a membership allows your institution to develop relationships with GCCC students interested in pursuing careers in CCS. The GCCC works on projects globally, but also focuses on the U.S. Gulf Coast where both need and opportunity for CCS are high.

Please contact: Dr. Susan Hovorka (susan.hovorka@beg.utexas.edu) or Dr. Dolores van der Kolk (dolores.vanderkolk@beg.utexas.edu) for more information.

<https://www.beg.utexas.edu/gccc>

Educational Materials for All Ages

Get info here

Educational materials suitable for teachers to help their students explore CCS. Here GCCC graduate students use teaching materials about CO₂.

<https://www.beg.utexas.edu/gccc/educational-resources>

IEAGHG's Summer School

Get info & applications to join here

This Summer School covers every aspect of CCS and presents the most recent information available. IEAGHG's Summer Schools are the only CCS education program that truly has an international focus. With the location moving around the world, our program has now taken place in over 7 countries covering Europe, Australia, Asia and North America. Our summer school now has over 550 alumni representing over 50 countries with many moving on to successful careers within CCS industry and academia.

<https://ieaghg.org/summer-school>

International Workshop on Offshore Geologic CO₂ Storage

Get access to presentations

This workshop series was established to bring together those who are doing offshore CCS to share knowledge with those who are interested in doing CCS, and to facilitate countries to identify their specific issues, challenges, and opportunities towards developing their national programs.

<https://www.beg.utexas.edu/gccc/research/gip/>

About the Gulf Coast Carbon Center

We monitor and have conducted many carbon dioxide (CO₂) storage projects. We can help you understand the process and address the questions you have.

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Are you with us?

We are your CCS Information Provider