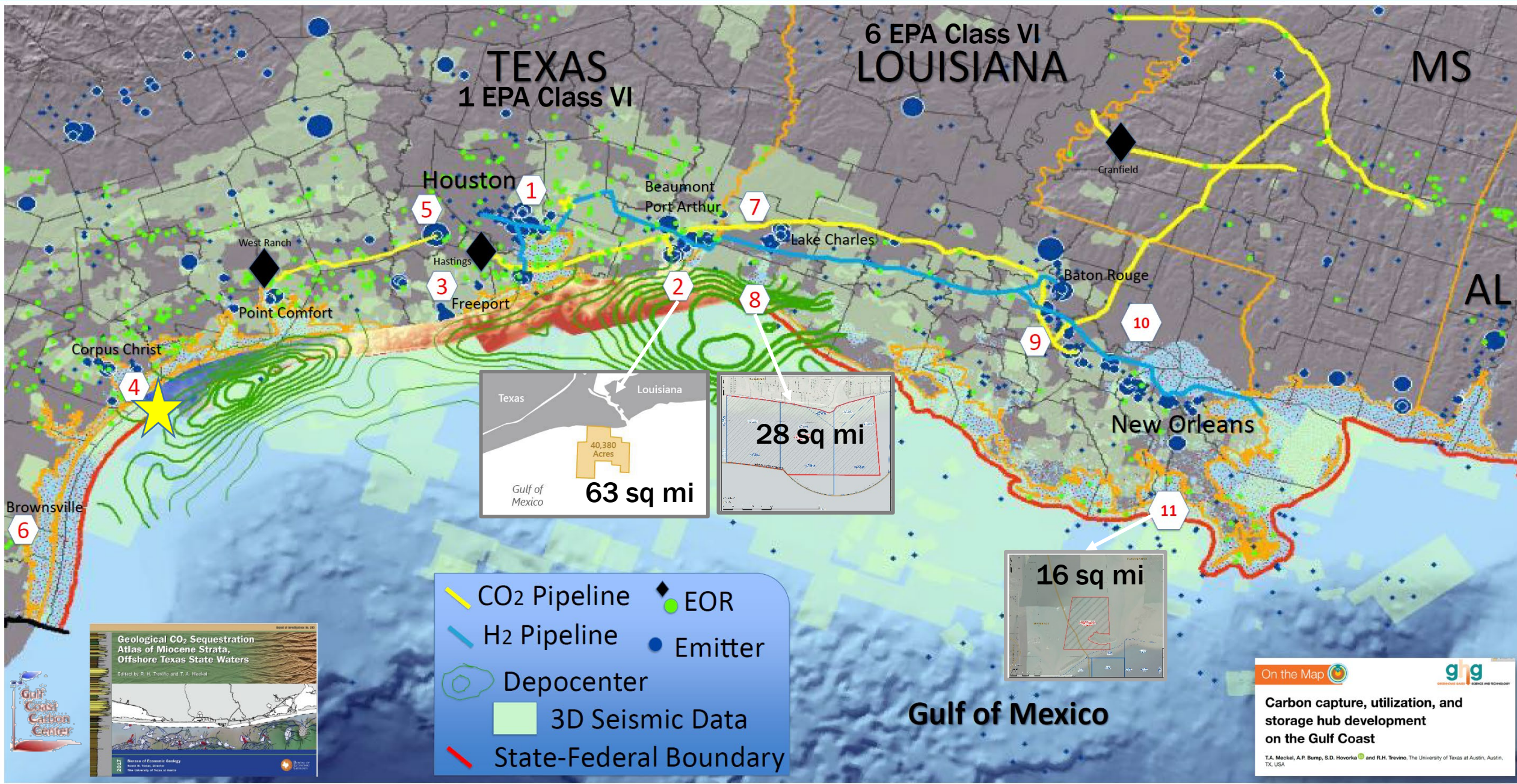


# Coastal Bend Offshore CCS – Corpus Christi, Texas

**Dr. Tip Meckel**  
**Senior Research Scientist**  
**Gulf Coast Carbon Center**  
**Bureau of Economic Geology**







# The Energy Port of the Americas

## By the Numbers

#1



U.S. Port by Annual Revenue Tonnage

#1



U.S. Crude Oil Gateway

7,736

Vessels moved in 2022



187.9M Tons

of goods moved in 2022 | New annual record

\$400M

Per day goods value movement

\$65B

In private investment over the last 8 years

95,448 FTE



Direct, indirect, and related positions | Over 40% of regional workforce

\$5M



In direct community investment in 2022

#2



U.S. Port in LNG Exports  
Estimated 808 Bcf in 2022

# Commercial Partnerships

ExxonMobil



SIEMENS Gamesa  
RENEWABLE ENERGY



FLINT HILLS  
resources



HOWARD  
ENERGY PARTNERS

KOCH

AEP TEXAS

CHENIERE

GULF COAST  
GROWTH VENTURES  
An ExxonMobil and SABIC joint venture

NuStar

PKS Kiewit

Vestas



GE  
Energy

AIR LIQUIDE

EPIC

PLAINS  
ALL AMERICAN  
PIPELINE, L.P.

BUCKEYE PARTNERS, L.P.

TRAFIGURA

ENBRIDGE  
Life Takes Energy

Mexichem.



سابك  
sabic



Steel Dynamics, Inc.

ArcelorMittal

lyondellbasell

Celanese  
The chemistry inside innovation

Vopak

MAGELLAN  
MIDSTREAM PARTNERS L.P.



BNSF  
RAILWAY



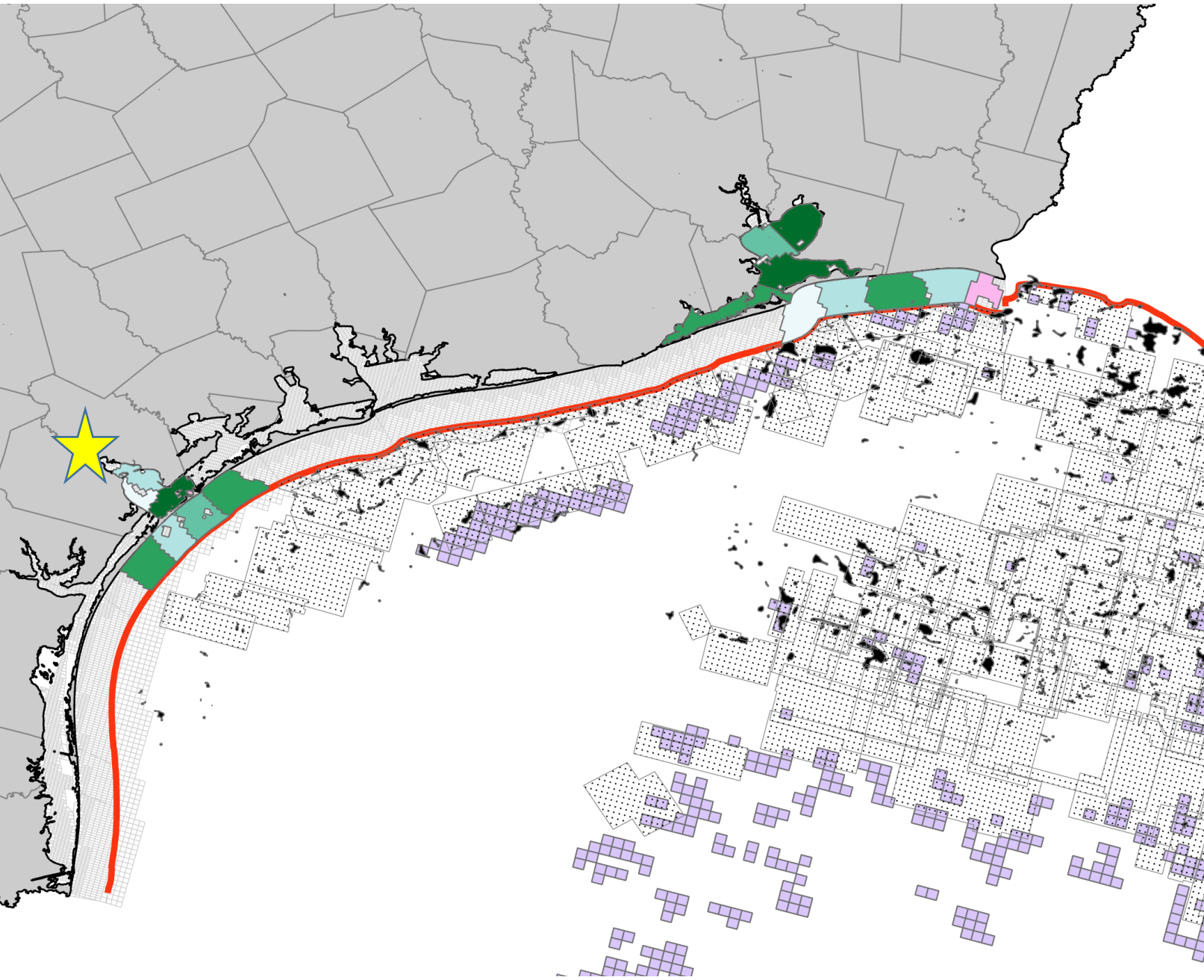
HALLIBURTON

subsea 7



PORT CORPUS CHRISTI

# Biden Administration's CCUS Federal Lands and Outer Continental Shelf Permitting Task Force



## 7 Project Operators



## 15 Regulatory Bodies



## 14 Non-Profits



The CCUstodian

1. The White House Council on Environmental Quality (CEQ)

Source:

March 24, 2023

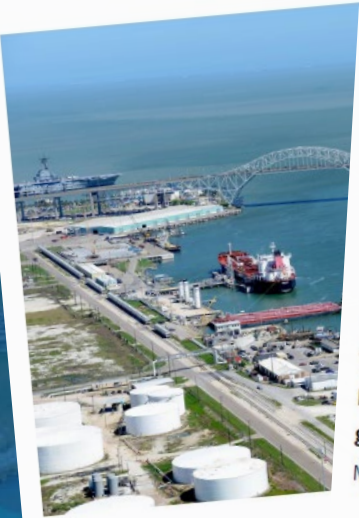


# Port Corpus Christi, Port Rotterdam Establish One-of-a-kind MOU

## Port of Corpus Christi and Port of Rotterdam sign MoU

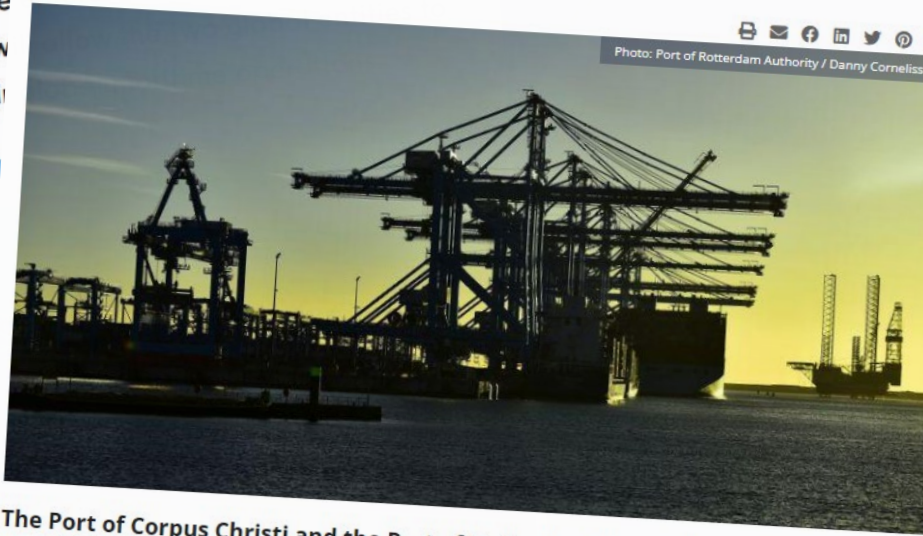
25 February 2021

The Port of Corpus Christi, the export gateway, and the Port industrial deepsea port, have Understanding (MOU) that w collaboratively improve their



## Port of Rotterdam and Corpus Christi ink collaboration agreement

Photo: Port of Rotterdam Authority / Danny Cornelissen



The Port of Corpus Christi and the Port of Rotterdam have entered into a Memorandum of Understanding (MOU) aimed to collaboratively improve their global maritime operations.

Michele Labrut | Mar 01, 2021

The two ports have outlined a number of shared objectives, which include co-developing trade and commercial opportunities, fostering an exchange of



## Objectives:

- Co-develop commercial opportunities
- Foster exchange of technical information exchange
- Advance development and deployment of innovative technologies w/ focus on **navigational safety** and **environmental protection**

# Progress to Date::

## State-level Activities

Memorandum of Understanding between Port + State of Texas :: Co-development of Geological Carbon Dioxide Storage Solution in the Coastal Bend of TX

### Port of Corpus Christi and Texas General Land Office to Collaborate in Development of Large-Scale Carbon Storage

Sep 01, 2021



**Corpus Christi, TX, USA** – The Port of Corpus Christi Authority (Port of Corpus Christi) and the Texas General Land Office (GLO) have executed a Memorandum of

Understanding (MOU) stating their intention to co-develop a carbon dioxide (CO<sub>2</sub>) storage solution in the Coastal Bend in support of national decarbonization targets. Such a solution would involve infrastructure to transport and permanently store CO<sub>2</sub> captured by various industrial target sources in the greater Port of Corpus Christi area.

Industry leaders recognize the detrimental impacts of excessive CO<sub>2</sub> emissions. Partnering to capture and sequester these emissions has unmatched environmental benefits. A [recent report](#) from the American Petroleum Institute and the International Petroleum Industry Environmental Conservation Association and the International Association of Oil and Gas Producers calls on energy developers to adopt unified actions

**Executed 8.25.21**

**Coastal Bend region prioritized by Texas General Land Office**

**Port to leverage geographic (ROWs) + market position**



# Two Discrete Projects

## OFFshore:

### US DOE awards Port of Corpus Christi with \$16.4M in CarbonSAFE grants

BUSINESS DEVELOPMENTS & PROJECTS

February 2, 2023, by Aida Čučuk

The Port of Corpus Christi has been allocated \$16.4 million through the US Department of Energy's (DOE) Carbon Storage Assurance Facility Enterprise (CarbonSAFE) initiative to evaluate the technical and economic feasibility of permanently storing captured carbon dioxide (CO2) from industrial operations.



### Partners/Sub-Recipients

- University of Texas Bureau of Economic Geology Gulf Coast Carbon Center
- Strategic Sequestration Development, SSD
- Trimeric Corporation
- Geostock Sandia
- Geosurveys
- MRSW

### Total Project Cost \$12,079,448

- DOE Award \$7,357,327
- PCCA & Partner Match \$1,839,332

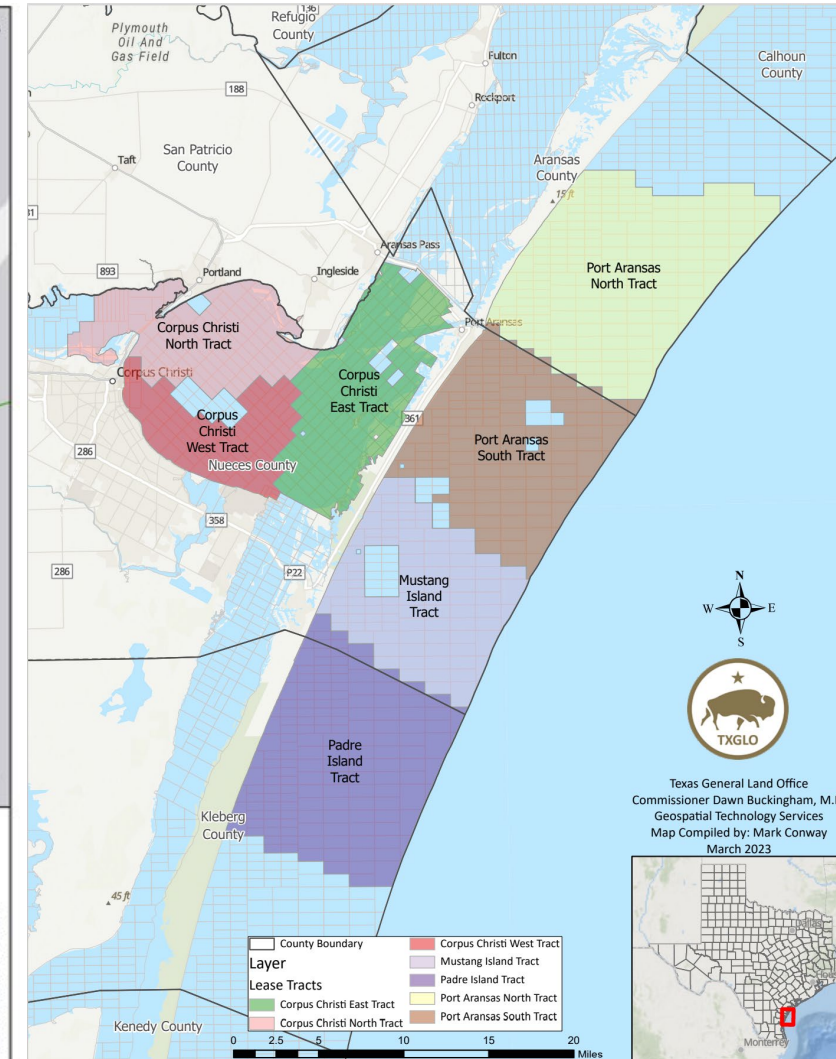
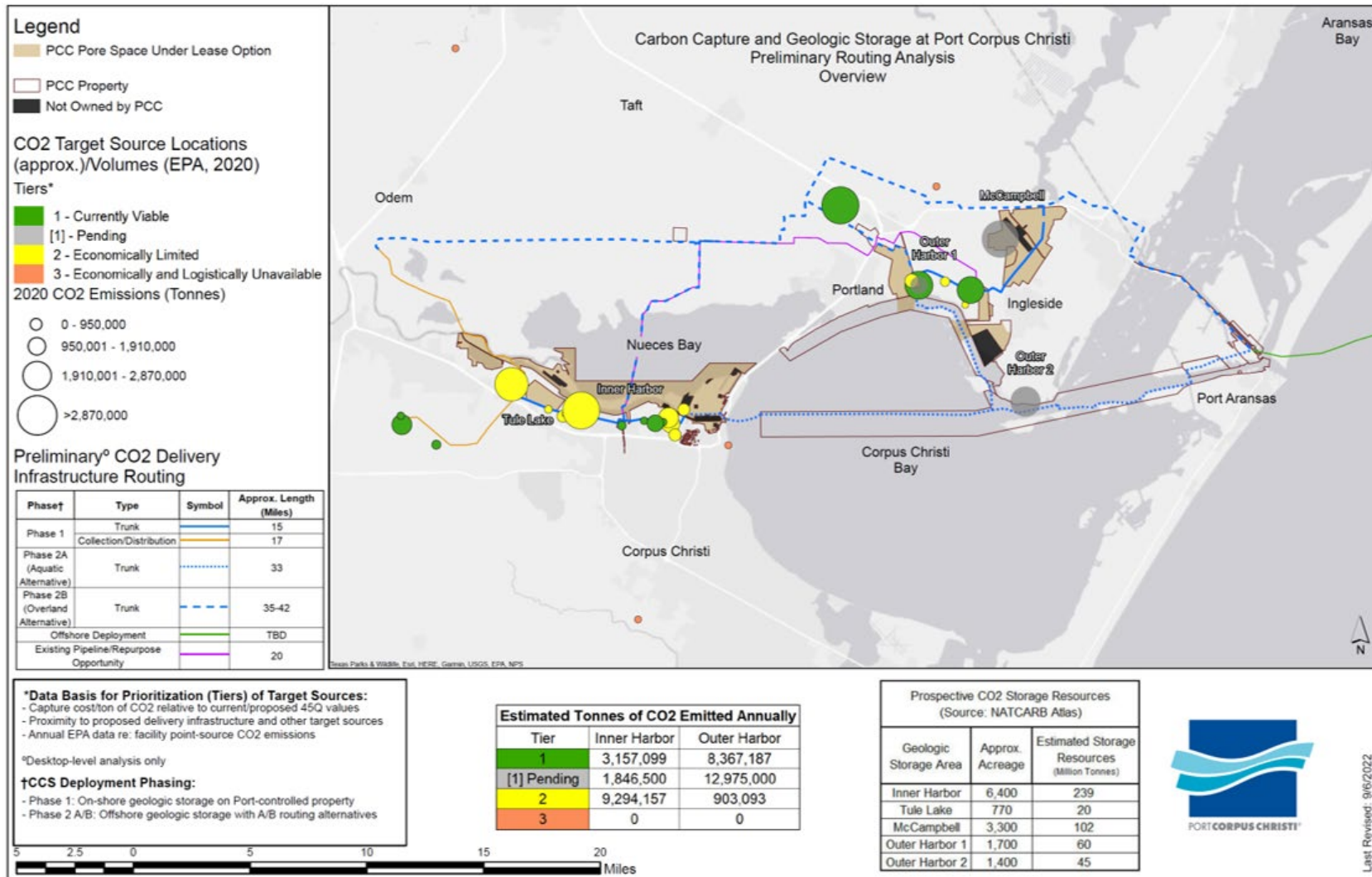
### Objectives

- Address, meet, and/or exceed criteria for CarbonSAFE Phase III eligibility
- Contribute to development of scalable carbon management solution in Coastal Bend, via offshore storage resources
- Enable access to large volume storage in deep saline stratigraphy in western Gulf of Mexico
- Reduce risks/costs for future projects by bringing new storage resources into commercial classifications to foster an innovative, diverse, and inclusive geological storage industry



# New DOE Project

## Coastal Bend Offshore CO<sub>2</sub> Storage



# THANK YOU