

From: Duncan-McDuffie, Michelle (CONTR)
Sent: Thu, 30 Jan 2025 20:26:57 +0000
To: Tatulyan, Kevin; Tala Goudarzi; Winberg, Steven; Cohen, Derek
Cc: Loman, Carol (CONTR)
Subject: Briefing Materials 1.31.25
Attachments: Charlie Riedl 2025 CLNG.pdf, Federal Partnerships Division Briefing 01312025.pptx, 01.31 Steve's Schedule.docx

Attached are briefing materials update as of 1.30.25 @ 3:24 pm. Any corrections/updates will be done in the morning.

Have a wonderful evening.



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Fossil Energy and
Carbon Management
Office of Assistant Secretary
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Charlie Riedl
Executive Director, Center for LNG
Vice President, Natural Gas Supply Association

Charlie Riedl is the Executive Director for the Center for LNG (CLNG) and Vice President of the Natural Gas Supply Association (NGSA). CLNG is the top U.S. LNG trade association.

Charlie manages the operations of CLNG and is responsible for member relations, media engagement, advocacy and government affairs activities. He leads efforts to advance the U.S. liquefied natural gas (LNG) industry's economic and environmental agenda with CLNG member companies, regulators, legislators and other key stakeholders.



He has testified in both chambers of the U.S. Congress, and frequently speaks with key Hill and White House staff, FERC and other policymakers, on the importance and benefits of LNG exports and regulatory certainty. He has led hundreds of discussions on CLNG priority issues at conferences, has appeared on leading television news programs like CNBC's *Squawk Box* and is regularly quoted as an industry expert in the media, including *The New York Times*, *The Houston Chronicle*, *Bloomberg News*, *Politico* and *The Hill*.

Charlie has been instrumental in leading the CLNG team to its recent successes, including securing modernized risk-based LNG safety regulation in PHMSA reauthorization legislation passed by Congress; long-term extension of non-FTA export authorizations through 2050. He is a fierce advocate for pipeline and infrastructure permitting improvements.

He is also a key part of the team developing NGSA's annual Winter Outlook forecast on natural gas supply and customer demand, adding context to how LNG exports impact price pressure.

Prior to joining CLNG, Charlie worked at America's Natural Gas Alliance and at a major exploration and production company in various roles focused on natural gas market development and government relations. He graduated from The Ohio State University with a bachelor's degree in Communications.

Find out more about LNG at www.lngfacts.org



Federal Partnerships Division (FE-263)

Adam Eisele
Division Director
U.S. Department of Energy
Office of Fossil Energy and Carbon Management



MEETING OBJECTIVES

- **Overview of Past, Current, and Future Plans**
- **Alignment with Administration Priorities**
- **Discussion**

FEDERAL PARTNERSHIPS DIVISION

Adam Eisele
Division Director



Jada Garofalo
General Physical Scientist



Emily Turkel
ORISE Fellow

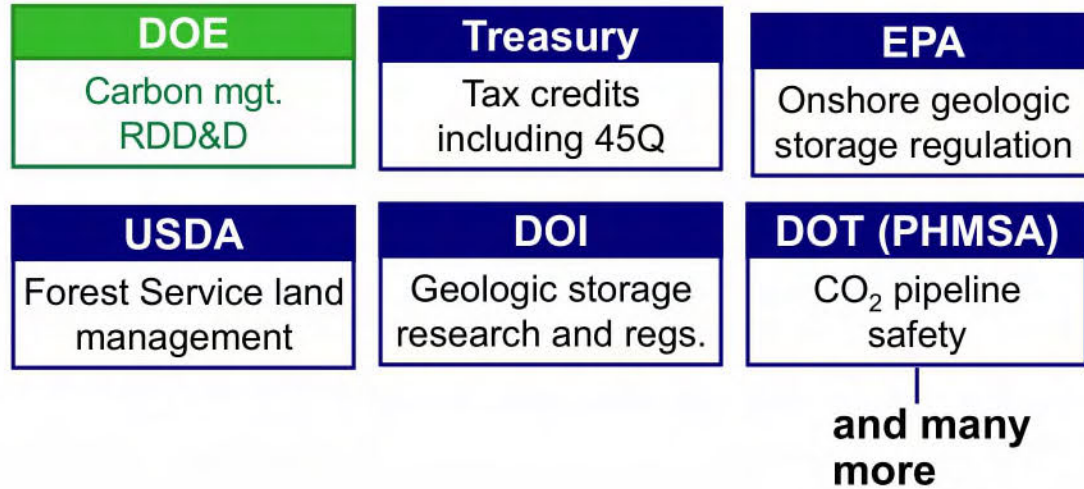


Christina Waldron
General Engineer



CONTEXT

DOE is one of several federal agencies involved in carbon management



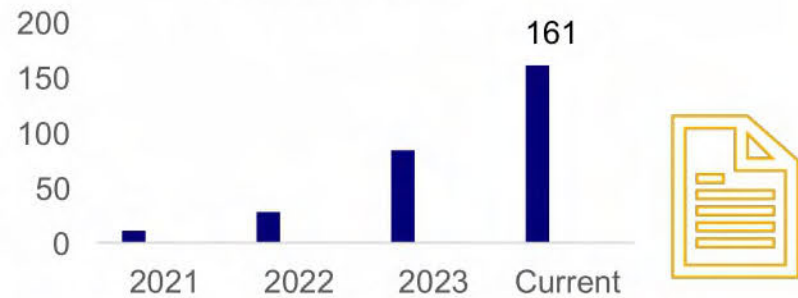
Note: EPA is Environmental Protection Agency; DOI is Department of the Interior; DOT is Department of Transportation; PHMSA is Pipeline and Hazardous Materials Safety Administration; USDA is United States Department of Agriculture

Federal Partnerships Division engages federal and tribal governments

- Government partnerships have historically enhanced DOE's ability to successfully develop and deploy technologies
- DOE has been leading federal CCUS coordination and serving as a technical resource for agencies for over 15 years
- Collaboration on technical challenges informs DOE R&D efforts, facilitates successful execution of R&D programs, and leverages DOE expertise to inform other agency actions
- **Federal Partnerships Division serves to streamline interagency collaboration**

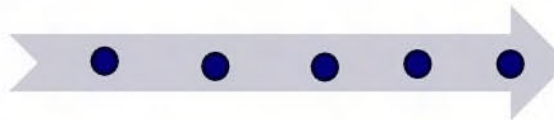
CLASS VI PERMIT STATUS

EPA Class VI Permit Applications



EPA Target Approval Timeframe

24 months



Number Permits Approved by EPA

8



Number of CarbonSAFE projects with permit applications in 2024

29



States with Class VI Primacy

**ND, WY, LA,
WV***

Submitted Applications for Class VI Primacy

**AK, AL, CO,
OK, MS, TX,
UT**

* Pending Federal Register publication

FEDERAL TECHNICAL ASSISTANCE PROGRAM (FTAP) FOR CLASS VI PERMITS

Federal Partnerships Division Manages FTAP with EPA

- EPA needed technical assistance processing timely Class VI permits
- DOE and EPA have an Interagency Agreement (IAA) through 2029 to provide technical assistance on Class VI permit reviews and technical capacity-building
- Roles:
 - FECM serves program management role
 - Identifying expertise/assigning reviews
 - Works with EPA on review & capacity building requests & processes
 - EPA provides technical direction and funds to National labs directly
 - \$4.8 million EPA BIL funds sent to labs in 2024; Total capacity of IAA: \$30 million

Participating National Labs

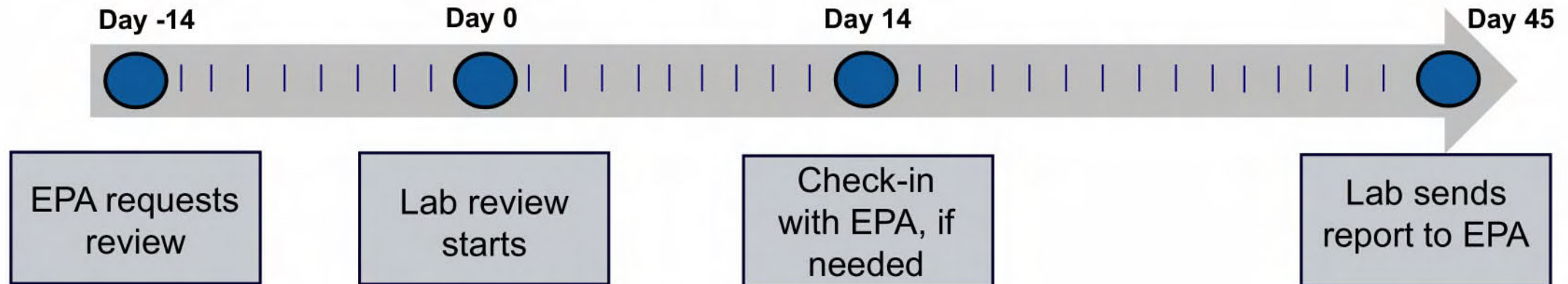
NETL National Energy Technology Lab	LANL Los Alamos National Lab	PNNL Pacific Northwest National Lab
LBNL Lawrence Berkeley National Lab	LLNL Lawrence Livermore National Lab	ANL Argonne National Lab
	SNL Sandia National Lab	

FTAP: CLASS VI PERMIT APPLICATION REVIEW

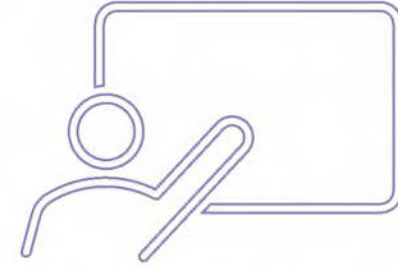
Review Requests

National Labs review certain technical components of Class VI permit applications

- 45 reviews to date on geologic characterization and/or subsurface modeling
- Labs largely complete reviews within 6-week timeframe
- Re-reviews may occur with new information from applicant
- Labs use a checklist to produce a standardized report



FTAP (CONTINUED)



Capacity-Building Requests

- FECM leverages expertise at DOE National Labs to provide capacity-building technical assistance/training for EPA and state permit reviewers
- To date, 20 capacity-building requests from EPA
 - Examples of requested topic papers include:
 - Corrosion
 - Self-healing wells
 - Other examples include:
 - ‘Ask a Scientist’ workshops
 - 101 trainings
 - Well construction material checklist

Current Status

- Paused active management this week
- Any concerns with continuing business-as-usual project management role coordinating permit - reviews and capacity building activities with EPA and labs?

FACA CCUS PERMITTING TASK FORCES

- **FECM administers two Task Forces mandated by the USE IT Act in accordance with the Federal Advisory Committee Act (FACA)**
 - Federal Lands Task Force
 - Non-Federal Lands Task Force
- **Purpose:**
 - 1) Identify challenges that permitting authorities and project developers face in permitting projects in an efficient, orderly, and responsible manner
 - 2) Improve the performance of the permitting process and regional coordination for the purpose of promoting the efficient, orderly, and responsible development of CCUS projects and CO₂ pipelines
- **Memorandum of Understanding with the White House Council on Environmental Quality:**
 - DOE: Administers task forces
 - CEQ: Selects task force members
- **Members:**
 - In 2023, CEQ solicited membership through 2 FR Notices; announced task force members to be appointed; in 2024 DOE established and launched Task Forces and Subcommittees
 - Includes individuals from:
 - DOE (Mark de Figueiredo), PHMSA, USGS, EPA, BOEM, BSEE, BLM
 - Industry, environmental, pipeline safety, state and local govt



CCUS PERMITTING TASK FORCE APPOINTED MEMBERS, FEDERAL LANDS

Appointed to Represent:	Name	Employer/Organization
Industry	Jack Andreasen	Breakthrough Energy
Industry	Al Collins	Representative of CCUS Project Developers and Operators (retired, Oxy)
Industry	Raven Goswick	Aka Energy Group LLC
Industry	Sallie Greenberg****	Sallie Greenberg Consulting
Industry	Kenneth Jackson	Carbon-Zero US, LLC
Industry	Jenny Joyce	ExxonMobil Low Carbon Solutions
Industry	Sasha Mackler	ExxonMobil Low Carbon Solutions
Industry	Jim Powell	Southern States Energy Board
Industry	Jan Sherman	Carbonvert Inc.
Industry	Sherry Tucker	CapturePoint Solutions
NGO	Xan Fishman	Bipartisan Policy Center
Environmental NGO	Shannon Heyck-Williams	National Wildlife Federation
Environmental NGO	Matt Rota	Healthy Gulf
Environmental NGO	Nichole Saunders**	Environmental Defense Fund
Environmental NGO	Mark Spalding	The Ocean Foundation
State	Lily Barkau	Wyoming Department of Environmental Quality
State	Ken Brass	State of Louisiana
State	Jason Lanclos	Louisiana Department of Energy and Natural Resources
State	Julie Murphy	Colorado Department of Natural Resources
Fed Agency	Indra Dahal	United States Department of Interior - Bureau of Land Management (BLM)
Fed Agency	Mark de Figueiredo	United States Department of Energy (DOE)
Fed Agency	James Kendall	United States Department of the Interior - Bureau of Ocean Energy Management (BOEM)
Fed Agency	Stacey Noem	United States Department of the Interior - Bureau of Safety and Environmental Enforcement (BSEE)
Fed Agency	[vacant]	United States Department of Transportation - Pipeline and Hazardous Materials Safety Administration (PHMSA)
Fed Agency	[vacant]	United States Environmental Protection Agency (EPA)
Expertise	Bill Caram	Pipeline Safety Trust
Expertise	Matthew Fry***	University of Wyoming
Expertise	Matt Holmes	California Environmental Justice Coalition
Expertise	Timothy Meckel	University of Texas at Austin
Expertise	Jeremy Moddrell	United Association of Journeymen and Apprentices of the Plumbing and Pipe Fitting Industry
Expertise	Tara Righetti*	University of Wyoming

*Federal Lands TF Chair; **Federal Lands TF Vice Chair; ***Federal Lands Subcommittee Chair; ****Non-Federal Lands Subcommittee Co-Chair.

CCUS PERMITTING TASK FORCE APPOINTED MEMBERS, NON-FEDERAL LANDS

Appointed to Represent:	Name	Employer/Organization
Industry	Andrew Duguid***	Advanced Resources International
Industry	Richard Esposito	Southern Company
Industry	Julio Friedmann*	Carbon Direct
Industry	Matthew Hagen	Air Products
Industry	Keith Tracy	Elysian Carbon Management
Industry	Poh Boon Ung	BP Gas & Low Carbon Energy
NGO	Rudra V. Kapila**	Third Way
CCUS NGO	Jarad Daniels	Global CCS Institute
CCUS NGO	Robert VanVoorhees	Carbon Sequestration Council
Environmental NGO	Laura Brannen	The Nature Conservancy
Environmental NGO	Catherine Coleman Flowers	Center for Rural Enterprise and Environmental Justice
Environmental NGO	Virginia Palacios	Commission Shift
Environmental NGO	Alexander Spike	Air Alliance Houston
Environmental NGO	John Thompson***	Clean Air Task Force
Labor / Electrical Workers	Matthew Warren	International Brotherhood of Electrical Workers
Local	Rusty Bell	Gillette College Foundation
Local	Lorelei Oviatt	Kern County, California, Planning and Natural Resources
State	James Canfield	Louisiana Department of Energy and Natural Resources
State	Kristin Carter	Pennsylvania Department of Conservation and Natural Resources
State	Rich Garman	North Dakota Department of Commerce
State	Scott Heiner	State of Wyoming
State	Tyson Todd	State of Utah School and Institutional Trust Lands Administration
State	Michael Turner	Colorado Energy Office
Federal Agency	Mark de Figueiredo	United States Department of Energy (DOE)
Federal Agency	Sarah Ryker	United States Geological Survey (USGS)
Federal Agency	[vacant]	United States Department of Transportation - Pipeline and Hazardous Materials Safety Administration (PHMSA)
Federal Agency	[vacant]	United States Environmental Protection Agency (EPA)
Expertise	Kevin Connors	Energy and Environmental Research Center, University of North Dakota
Expertise	Kyle Henderson	United Association of Journeymen and Apprentices of the Plumbing and Pipe Fitting Industry
Expertise	Jesse Richardson Jr	West Virginia University College of Law
Expertise	Sarah Saltzer****	Stanford University

*Non-Federal Lands TF Chair; **Non-Federal Lands TF Vice Chair; ***Priority Pipelines Subcommittee Chair; ****Non-Federal Lands Subcommittee Co-Chair.

TASK FORCES: PROGRESS TO DATE



- Public Meetings to date: USE IT Act requires meeting 2x/year
 - May 2024
 - Dec 2024
- Closed recurring working meetings – currently in progress
 - Federal Lands Subcommittee
 - Non-Federal Lands Subcommittee
 - Priority Pipelines Subcommittee
 - Small groups focused on:
 - Capture technologies R&D
 - CO₂ utilization
 - Financing mechanisms
- Task Forces aim to finalize recommendations by end of 2025
 - Members share diverging views on certain recommendations

PERMITTING TASK FORCES: CURRENT STATUS

- Task Forces working on identifying best practices and recommendations for streamlining permitting per USE IT Act duties
- DEI/EJ
 - While not the main focus of the Task Forces, the framing documents (charters, MOU, charges) contain a sentence on EJ not in the USE IT Act.
 - Email sent to Task Force members directing suspension of any DEI related work; DEI and EJ are not the subject of any planned meetings
 - All DOE-led Task Force meetings cancelled week of 1/27
 - Next Steps: Starting process of formally revising charter, MOU, and charge to remove EJ language
 - Process will take several months
 - Opportunity to consider other changes
 - Could occur concurrently with task force activities

TASK FORCE TENTATIVE 2025 CALENDAR

Activity	Objective	Attendees	Target Dates
CCUS Task Force Leadership Biweekly	Task Force coordination	DOE DFO, Task Force and Subcommittee Chairs	Biweekly, next meeting on Feb 10
Federal Lands Subcommittee	Development of recommendations on USE IT Act duties	DOE DFO & Subcommittee members	Biweekly, next meeting on Feb 4
Non-Federal Lands Subcommittee	Development of recommendations on USE IT Act duties	DOE DFO & Subcommittee members	Biweekly, next meeting on Feb 11
Priority Pipelines Subcommittee	Development of recommendations on USE IT Act duties	DOE DFO & Subcommittee members	Biweekly, next meeting on Feb 5
CEQ appoints new EPA and PHMSA members	Required by USE IT Act; previous members were political appointees	N/A	March
Joint Task Force Spring Meeting	Subcommittees present recommendations; Task Forces discuss and vote	DOE DFO, Task Force members & public	May 15 & 16 (tentative)
Joint Task Force Fall Meeting	Chairs/authors present Joint Report; Task Forces discuss and vote	DOE DFO, Task Force members & public	November (tentative)

FAST-41 OVERVIEW

- Title 41 of Fixing America's Surface Transportation Act (FAST) of 2015
 - Intended to modernize federal environmental permitting
 - Intended to improve transparency, predictability, and accountability and to promote agency coordination and synchronization
- BIL amendment made FAST-41 permanent and established Permitting Council
- Participation in FAST-41 is voluntary for project developers and a project must meet eligibility criteria to obtain program benefits.
- CCS is one of 19 FAST-41 sectors
- FAST-41 projects have a public dashboard showing timetables for all required reviews that are updated quarterly

FECM'S ROLE IN FAST-41


- Generally, FECM will serve as lead agency for DOE-funded CCS projects (due to NEPA requirements associated with receiving DOE-funding)
- 1st FAST-41 CCS Project: Pelican Carbon Sequestration Hub in Stockton, CA

Home


Pelican Carbon Sequestration Hub

PERMITTING DASHBOARD PROJECT POSTING DATE: NOVEMBER 13, 2024


All dates below are specific to the schedule of the Environmental Review and Permitting processes for this project.




ENVIRONMENTAL REVIEW AND PERMITTING STATUS
PLANNED




ESTIMATED COMPLETION DATE OF ENVIRONMENTAL REVIEW AND PERMITTING
PENDING




Project Primary Address
Primary Location
Project Address
3028 Navy Drive
Stockton, CA 95206
United States
County
San Joaquin




ENVIRONMENTAL REVIEW AND PERMITTING PROCESSES COMPLETED



SECTOR
Carbon Capture and Sequestration



CATEGORY
Project Category FAST-41 Covered Projects



LEAD AGENCY
Department of Energy

[View FAST-41 Postings by Agencies](#)

Description:

Pelican Renewables, LLC and its affiliates propose to develop a carbon sequestration hub on Rindge Tract, a large island in the Sacramento-San Joaquin River Delta, located approximately 7 miles from the Port of Stockton. The Project's primary goal is to capture, utilize, and/or sequester CO₂ emissions. The Project will use Pelican's existing ethanol production plant at the Port of Stockton for the anchor source of carbon dioxide to kick-start Hub operations. The existing rail terminal at the plant will be used to receive carbon dioxide from external sources by rail, where it can be barged to Rindge Tract for storage. Additionally, a Pelican affiliate, ZuCO₂ Transport, LLC, will develop a barge-based CO₂ transport system that will move CO₂ from the Port of Stockton and from external sources to the Rindge Tract sequestration site.

Lead Agency Information:

POC Name: Emily Turkel
POC Email: emily.turkel@hq.doe.gov
Agency/Department: Department of Energy

Sponsor Contact Information:

POC Name: John Zuckerman
POC Title: Managing Member
POC Email: jz@zuCO2.com

INTERAGENCY COORDINATION

- Coordinate bimonthly CCUS meetings with staff across participating federal agencies
- Support FECM's Tribal Fossil Energy and Carbon Management Working Group
 - Federal Partnership Division includes the FE-20 Tribal Liaison for engagement and consultations
- Host trainings for federal agencies
- Coordinate "Topic Team" meetings covering:
 - Land management
 - CO₂ transport
 - Engagement
- Long-standing interagency relationships can be leveraged for future initiatives

APPENDIX

USE IT ACT: CCUS PERMITTING TASK FORCE DUTIES

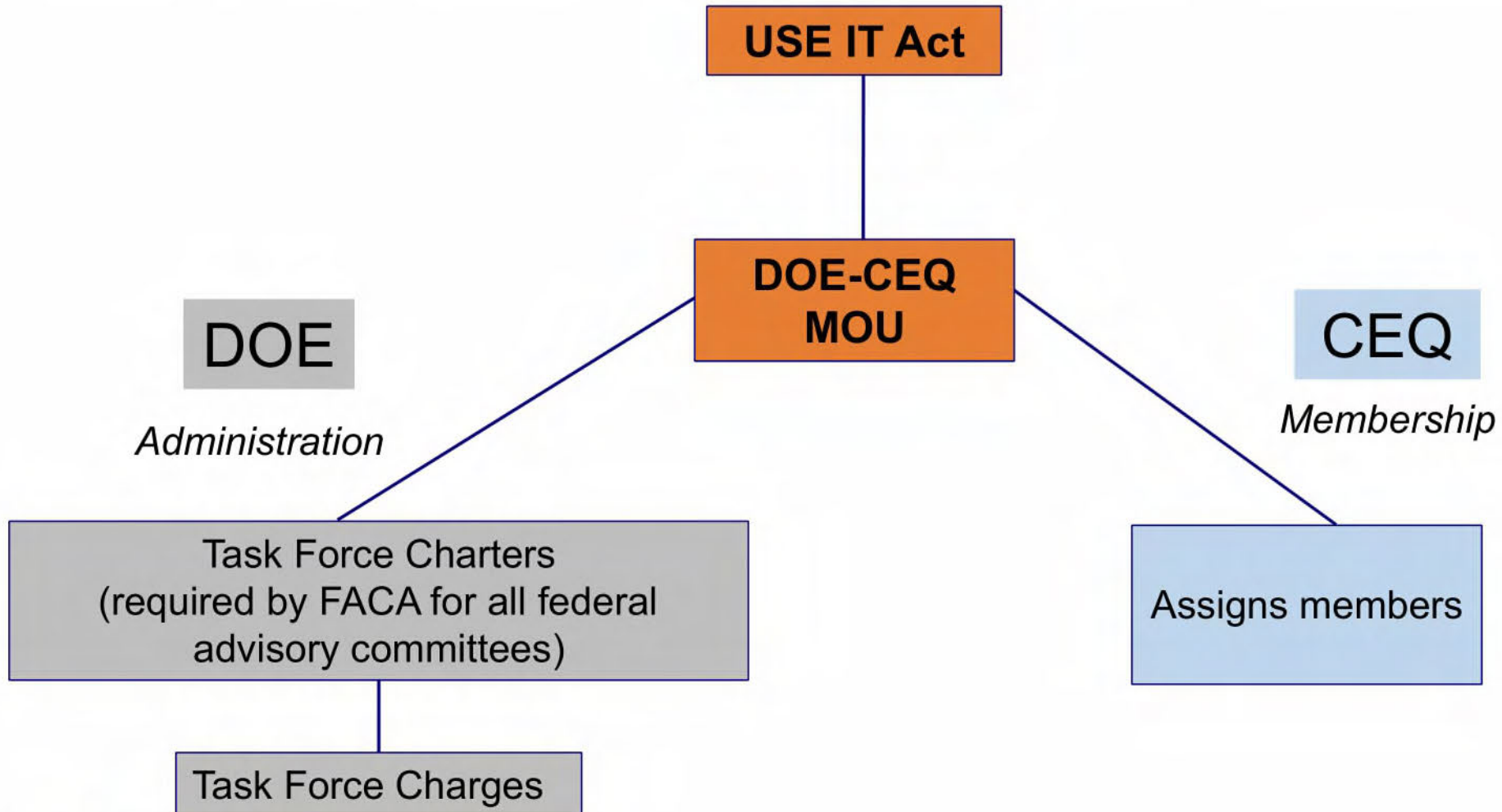
- I) inventory existing or potential Federal and State approaches to facilitate reviews associated with the deployment of carbon capture, utilization, and sequestration projects and carbon dioxide pipelines, including best practices that—
 - (aa) avoid duplicative reviews to the extent permitted by law;
 - (bb) engage stakeholders early in the permitting process; and
 - (cc) make the permitting process efficient, orderly, and responsible;
- II) develop common models for State-level carbon dioxide pipeline regulation and oversight guidelines that can be shared with States in the geographical area covered by the task force;
- III) provide technical assistance to States in the geographical area covered by the task force in implementing regulatory requirements and any models developed under subclause (II);
- IV) inventory current or emerging activities that transform captured carbon dioxide into a product of commercial value, or as an input to products of commercial value;
- V) identify any priority carbon dioxide pipelines needed to enable efficient, orderly, and responsible development of carbon capture, utilization, and sequestration projects at increased scale;
- VI) identify gaps in the current Federal and State regulatory framework and in existing data for the deployment of carbon capture, utilization, and sequestration projects and carbon dioxide pipelines;
- VII) identify Federal and State financing mechanisms available to project developers; and
- VIII) develop recommendations for relevant Federal agencies on how to develop and research technologies that—
 - (aa) can capture carbon dioxide; and
 - (bb) would be able to be deployed within the region covered by the task force, including any projects that have received technical or financial assistance for research under paragraph (6) of section 103(g) of the Clean Air Act (42 U.S.C. 7403(g)).

DRAFT TASK FORCE REPORT STRUCTURE & TIMELINE

Chapter Title
Executive Summary
Cross-cutting issues
Chapter 1: Permitting and reviews for CCUS projects and CO ₂ pipelines on Federal lands – approaches and best practices to facilitate reviews for land access, project and pipeline development on federal lands. Includes identifying any gaps in data or regulatory framework (<i>Duty I, VI</i>)
Chapter 2: Permitting and reviews for CCUS projects and CO ₂ pipelines on non-Federal lands – approaches to improve processes and regional coordination, and model guidelines for state-level CO ₂ pipeline regulation and oversight. Includes identifying any gaps in data or regulatory framework (<i>Duty I, II, VI</i>)
Chapter 3: Priority CO ₂ pipelines needed to enable responsible scale-up of CCUS (<i>Duty V</i>)
Chapter 4: Federal and State Financing Mechanisms for CCUS project and CO ₂ pipeline developers (<i>Duty VII</i>)
Chapter 5: CO ₂ Conversion / Utilization – Current and emerging activities (<i>Duty IV</i>)
Chapter 6: CO ₂ Capture Research & Development (<i>Duty VIII</i>)

Months	Primary Activity
Aug 2024 - Oct/Nov 2025	Subcommittee kick off and ongoing meetings
Oct – Dec 2024	Finalize workplan, assign chapter leads
Nov 2024	Chapter team kick off meetings (chapters 4,5,& 6)
Dec 2024	Subcommittee presentations
Jan 2025	Chapter team kick off meetings (chapters 1, 2,& 3)
Dec – Apr 2025	Chapter drafting
Mid-Apr 2025	Chapter rough drafts due
Jun & Jul 2025	Chapter final drafts due
Aug 2025	Technical editing
Aug – Oct 2025	Task Force review of final draft report
Oct 2025	Consolidate comments
Oct – Nov 2025	Finalize draft and submit to CEQ

USE IT ACT TASK FORCES ENABLING FRAMEWORK

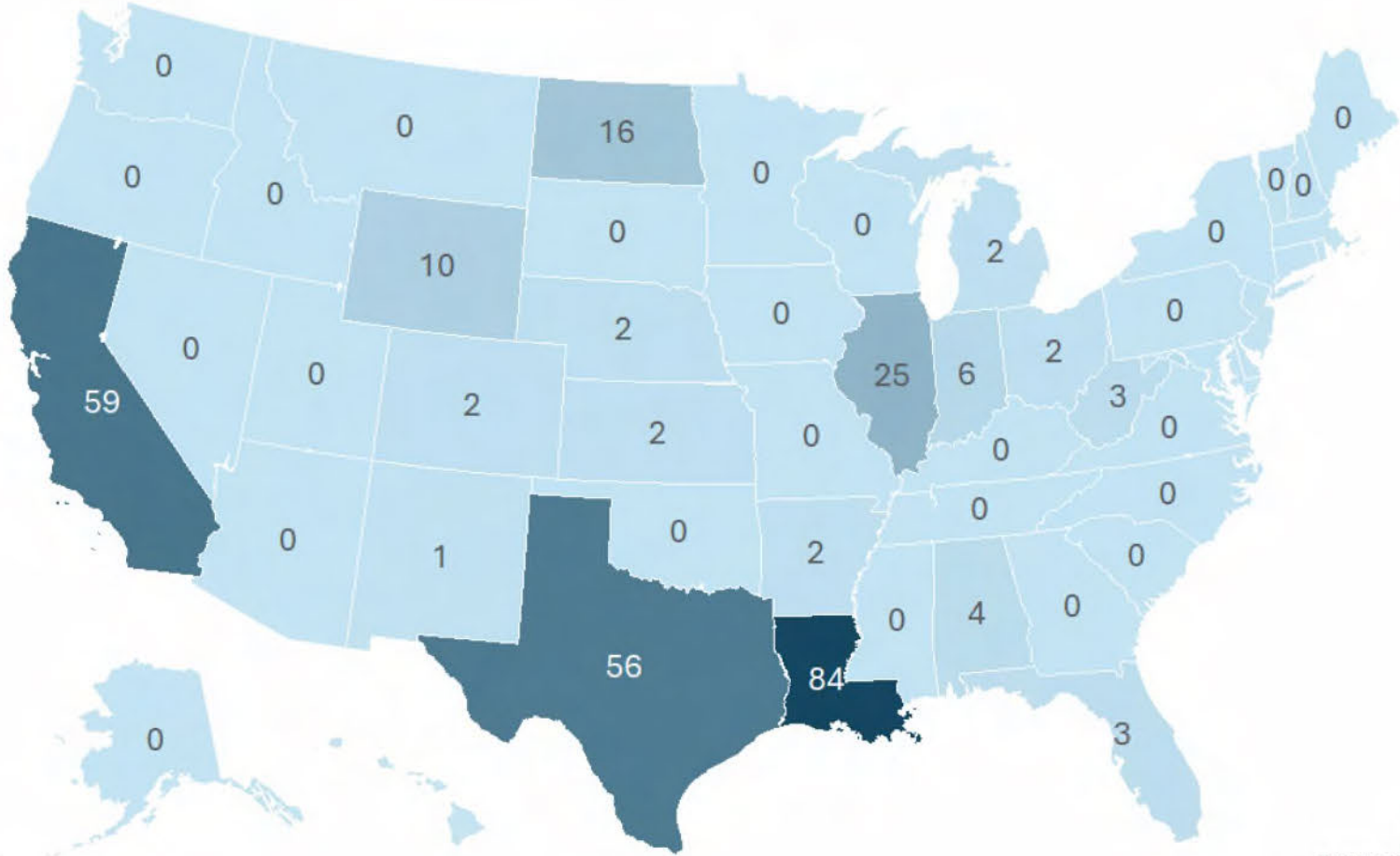


REGULATORY STATUS

Agency	Action	Status
BSEE/BOEM	Proposed rule to establish regulations governing long-term carbon sequestration on the Outer Continental Shelf related to granting a lease, easement, or right-of-way into sub-seabed geologic formations	Internal BSEE/BOEM review
PHMSA	Signed proposed rule on January 10, 2025 that includes revisions to Pipeline Safety Regulations to include safety standards and reporting requirements for gas- and liquid-phase CO ₂ pipelines	Was not published in Federal Register and is therefore subject to review by PHMSA leadership
BLM	Instruction Memorandum that focuses on unitization of pore space and authorizing ROWs for CCUS	Internal BLM review
USFS	Proposed rule issued providing an exemption for carbon capture and storage on National Forest Service lands	Comment period closed January 2, 2025

PENDING/APPROVED CLASS VI PERMIT APPLICATIONS

(as of January 6, 2025)



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**Steve's Schedule
Friday, January 31, 2025**

- | | |
|--------------------------|---|
| 8:30am – 9:00am | Connect with Ken Vincent |
| 9:00am – 10:00am | FE-20 Briefing – FE-263 Federal Partnerships |
| 10:00am – 10:30am | IA meeting on EU/Gas with William Joyce, Brian Kelly, Josh Voltz and Andrew Rapp and Charlie Riedl |
| 10:30am – 12:00pm | Focus and/or Training |
| 12:00pm-12:20pm | Tag up with GC Bill Cody |
| 12:30pm – 2:00pm | Focus and/or Training |
| 2:00pm – 2:45pm | Calendar review |
| 3:00pm – 3:30pm | Weekly 1:1 tag up Mark Ackiewicz |