



GLOBAL CCS  
INSTITUTE



# AMERICAS MEMBER MEETING



# AGENDA

TIME	SESSION TITLE
9:00 AM	Check In and Networking
10:00 AM	Opening Remarks
10:20 AM	Advancing CCS in Alberta
11:00 AM	Enabling U.S. Competitiveness Through Decarbonized Industry
11:40 AM	Fireside Chat: Bridging Innovation and Regulation
12:10 PM	Networking Lunch
1:10 PM	Advancing CCS In California
1:50 PM	The Role of National Wildlife Federation in Carbon Management Policy
2:05 PM	Geologic Storage with Enhanced Recovery: Strengthening Energy Security and Driving Decarbonization
2:45 PM	Comprehensive Carbon Accounting: Key to Unlocking Commercial Investment in Hard to Abate Sectors
3:00 PM	Afternoon Networking Break
3:30 PM	Leading the Way on Low Carbon Power: Glacier Phase 2 CCS Project
3:45 PM	From Policy to Prosperity: States Driving CCS Deployment
4:30 PM	Data Center Growth Outlook in the Wake of the Artificial Intelligence Boom
4:45 PM	AI Data Centers
5:25 PM	Closing Remarks
5:30 PM	Networking Reception Sponsored by California Resources Corporation (CRC)

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# THANK YOU SPONSORS

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Program Sponsor



Reception Sponsor



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# HOUSEKEEPING

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## Wi-Fi

- Network: WestinMeetingRooms
- Password: global2025

## Chatham House Rule

In order to encourage candid conversation, today's discussions are off the record. Participants are free to use the information shared, but neither the identity nor the affiliation of speakers or participants may be revealed. The Institute will prepare a high level summary for our website of the topics and themes discussed today without including identifiable details.

## Safety

In case of an emergency, please follow hotel staff instructions and exit using the nearest marked route. The assembly point is Union Square Plaza, directly outside the main hotel entrance.

## Restrooms

Located near the Golden Gate Room foyer — follow signs past the tower elevators.



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# OPENING REMARKS

## GLOBAL STATUS OF CARBON CAPTURE AND STORAGE

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**Jarad Daniels**  
Chief Executive Officer  
Global CCS Institute

# WHERE THERE'S POLICY, THERE'S PROJECTS

Notable policy advances over the past 12 months are providing greater certainty for investors



## 46%

Increase in the capture capacity of facilities in advanced development (FEED) from 180 to 262 Mtpa.



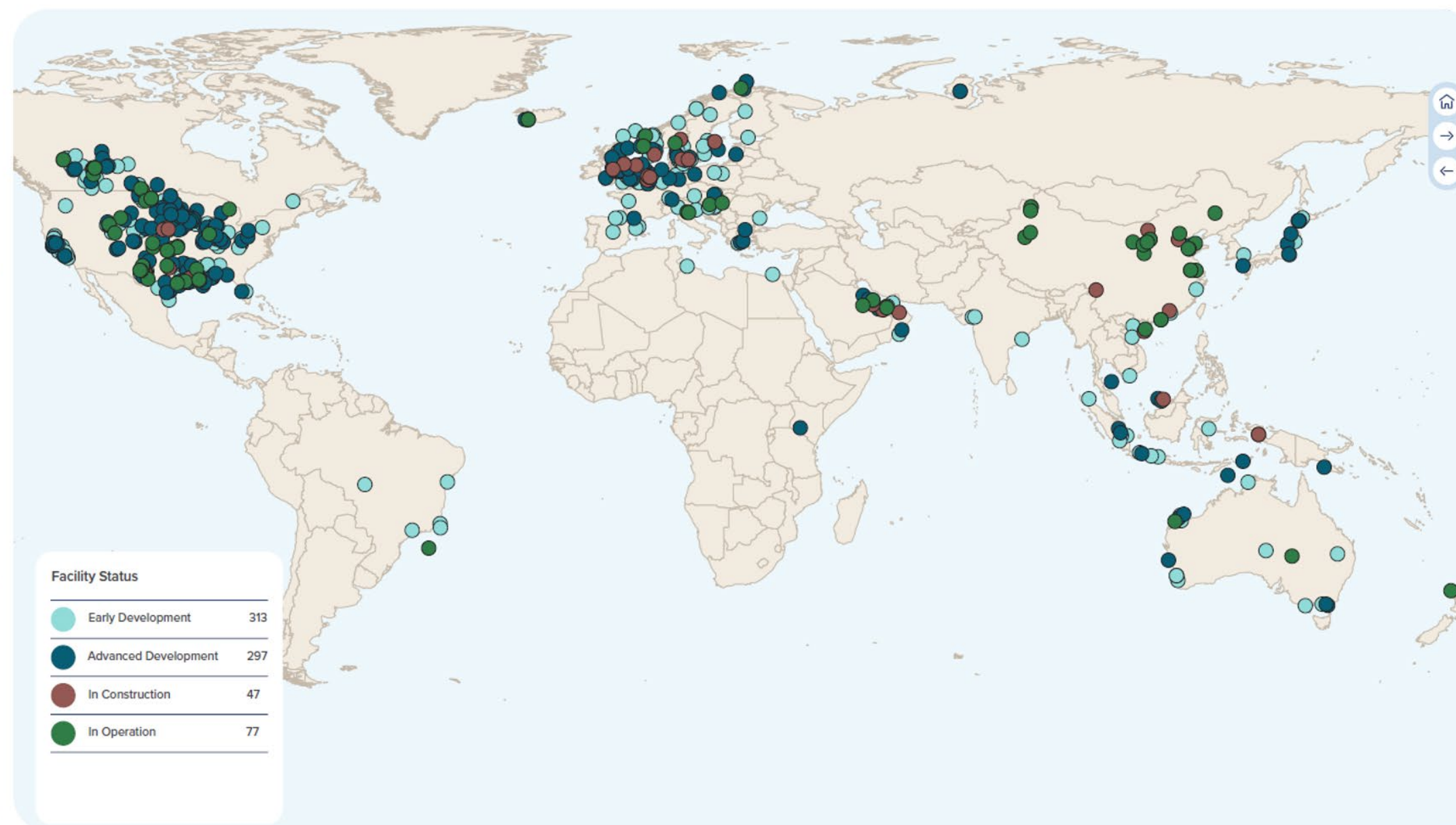
## 734

Total number of facilities rises 17% year on year



## 513 Mtpa

Total capture capacity rises 23% year on year





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# ADVANCING CCS IN ALBERTA

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**Traci Rodosta**

Head of Americas  
Global CCS Institute  
[MODERATOR]



**Mark Plamondon**

Executive Director  
Alberta's Industrial  
Heartland Association



**Adrian Corless**

CEO  
Carbon Capture Inc.



**Mac Walton**

Manager, Policy and  
Commercial  
International CCS  
Knowledge Centre



**Tate Turner**

Investment Advisor  
Invest Alberta

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# ENABLING U.S. COMPETITIVENESS THROUGH DECARBONIZED INDUSTRY

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**Traci Rodosta**

Head of Americas  
Global CCS Institute  
[MODERATOR]



**Jonathan Flynn**

Director, Clean  
Energy Solutions  
CF Industries



**Mercy Renteria**

National BDM Director  
Hydrogen and CCUS  
Endress + Hauser



**John Litynski**

Head of CCUS  
EQT



**Lars-Erik Gaertner**

Director of Sales and  
Business Development  
Linde



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# FIRESIDE CHAT: BRIDGING INNOVATION AND REGULATION

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**Jarad Daniels**

Chief Executive Officer  
Global CCS Institute  
[MODERATOR]



**Dr. Steven Cliff**

Executive Officer  
California Air Resources Board  
(CARB)



**Francisco Leon**

President and CEO  
California Resources  
Corporation (CRC)

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## NETWORKING LUNCH – 1 HOUR

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We will resume the  
program at 1:10 PM





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# ADVANCING CCS IN CALIFORNIA

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**Kamalpreet Kaur**

Regional Manager  
Americas  
Global CCS Institute  
[MODERATOR]



**Jonathan Dethloff**

Director Strategy &  
Market Intelligence  
California Resources  
Corporation (CRC)



**Vikrum Aiyer**

Head of Global  
Public Policy  
Heirloom



**Bob Slettehaug**

Director Carbon Capture  
Kiewit



**Sarah Saltzer**

Managing Director  
Stanford Center for  
Carbon Storage

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# THE ROLE OF NATIONAL WILDLIFE FEDERATION IN CARBON MANAGEMENT POLICY

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**Dr. Simone H. Stewart**

Senior Industrial Policy Specialist  
Climate and Energy Policy  
National Wildlife Federation



# The Role of National Wildlife in Carbon Management

Simone H. Stewart, Ph.D.

Senior Industrial Policy Specialist

Climate & Energy | National Wildlife Federation

Global CCS Institute Americas Member Meeting

*November 4, 2025*





# National Wildlife Federation Vision & Structure

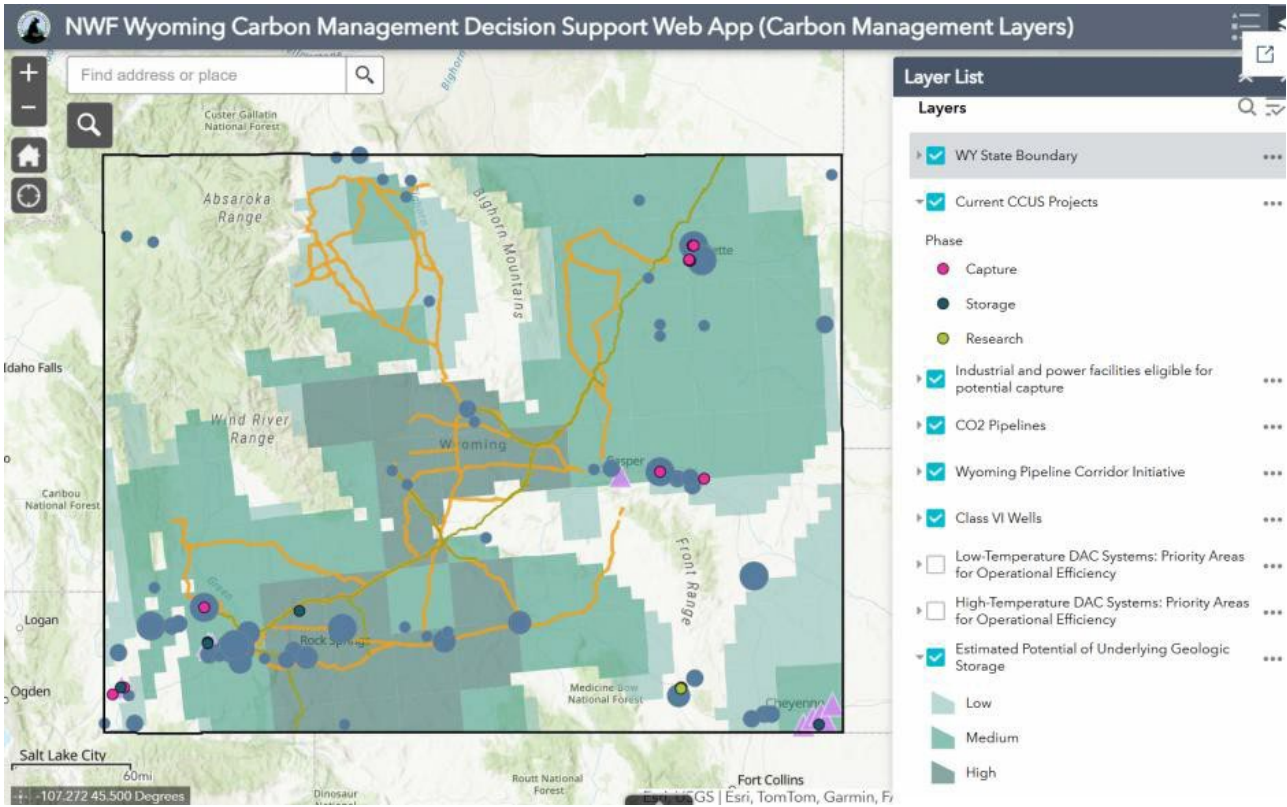
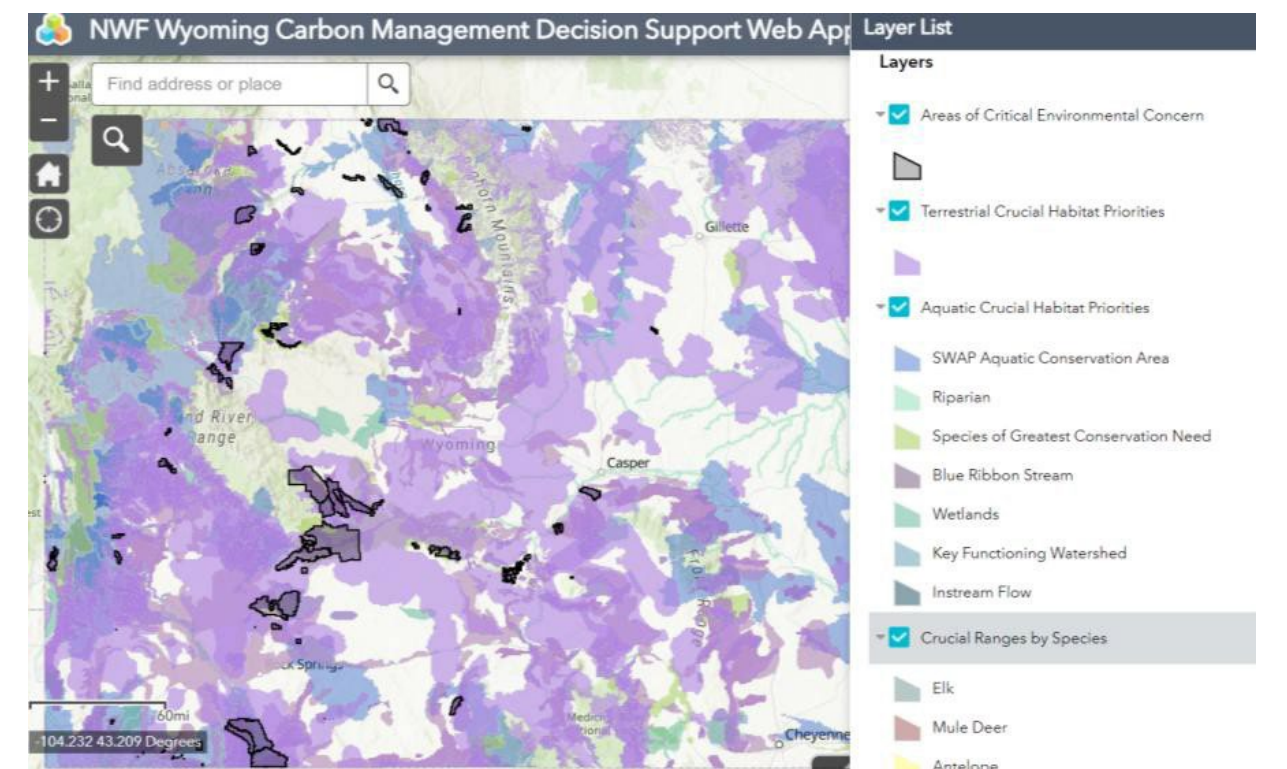
## Equal Strategic Pillars:

- Wildlife Recovery
  - Climate Solutions
  - Environmental Justice
- 
- 52 State and Territorial Affiliates (independent organizations)
  - 7 Regional Centers plus HQ in VA and DC National Advocacy Center
  - ~450 staff
  - 7 million members and supporters

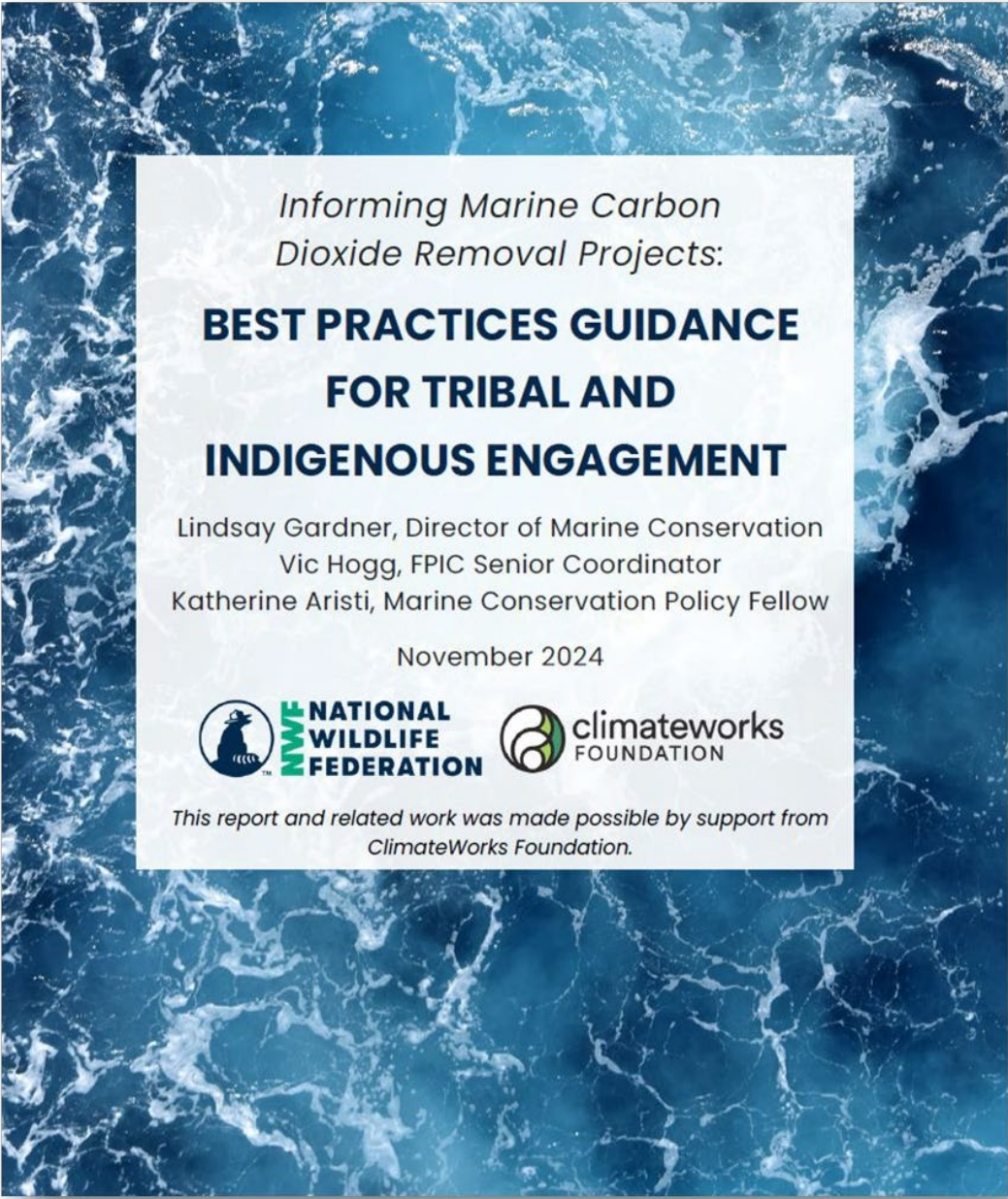




# NWF works with a variety of stakeholders...



Mapping Tool was a collaboration with Carbon Solutions with review by WY Game & Fish.



Best Practices Guide includes feedback from Tribal focus groups.



CRJF Program is run in partnership with American University.





OCTOBER 2025

# CO<sub>2</sub> Pipeline Regulation and Policy Education Memo

By: Sarah Kallgren and  
Dr. Simone H. Stewart

Aerial View of Manufacturing Plant, Tom Fisk

## Purpose of Memo

**T**he Intergovernmental Panel on Climate Change (IPCC) has confirmed that to meet our climate goals, carbon capture and removal technologies at some level of commercial scale are needed.<sup>1</sup> These strategies use chemical filters to remove carbon dioxide (CO<sub>2</sub>) from smokestack emissions, or from the ambient air. These technologies also require additional development of supporting infrastructure like pipelines to transport the CO<sub>2</sub> to its final destination. When carbon capture equipment is installed on a facility or

a carbon removal project is developed, the CO<sub>2</sub> emissions that are captured and condensed are either stored deep underground or recycled to create other materials. Some industrial facilities have underground storage capacity on site, but not always. Sometimes the storage or utilization site may be miles away. In this case, pipelines are the industry-standard method of transporting CO<sub>2</sub> from where it is captured to where it will be used or stored.

<sup>1</sup> Hunt, Kara. "What Does the Latest IPCC Report Say about Carbon Capture?" Clean Air Task Force, April 20, 2022.



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# **GEOLOGICAL STORAGE WITH ENHANCED RECOVERY: STRENGTHENING ENERGY SECURITY AND DRIVING DECARBONIZATION**

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**Poh Boon Ung**

General Manager  
Strategic Advocacy  
Growth & Engagement  
Global CCS Institute  
[MODERATOR]



**Matt Wallace**

Senior Project Manager  
Advanced Resources  
International (ARI)



**Ryan Edwards**

Director of Policy  
Oxy

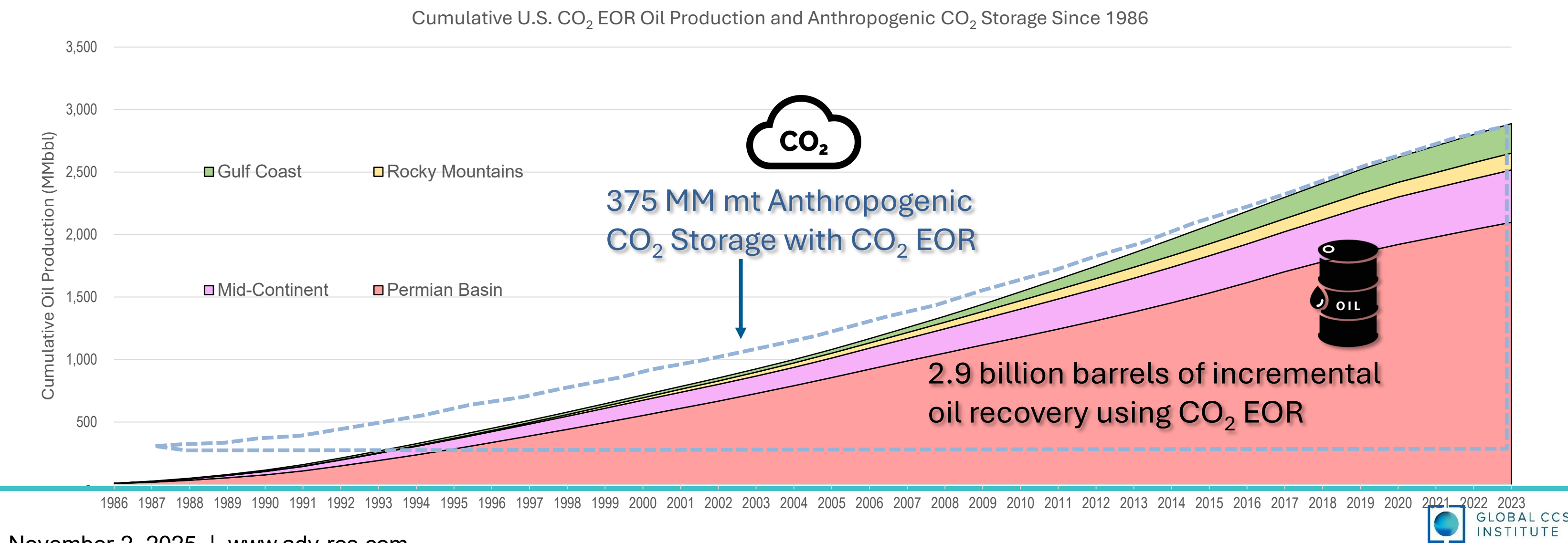


**Jason Baihly**

Integration & Production  
Solutions Manager  
SLB

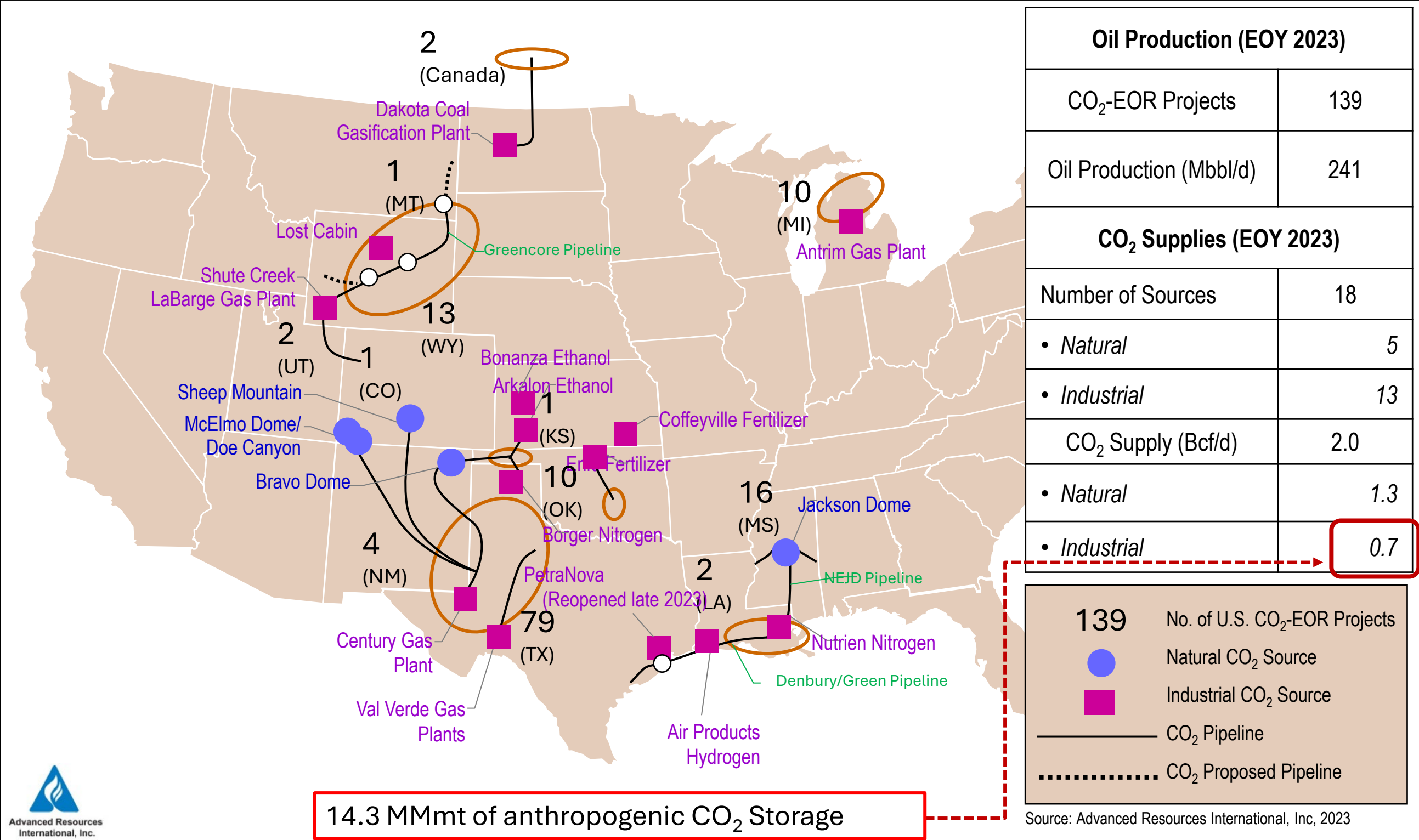
# Cumulative Oil Production and CO<sub>2</sub> Storage with CO<sub>2</sub> EOR

- Since reporting began in 1986, the U.S. has produced over 2.9 billion barrels of incremental oil using CO<sub>2</sub> EOR.
- Over 375 MM mt of anthropogenic CO<sub>2</sub> has been permanently stored using CO<sub>2</sub> EOR -- **an average of over 10 million metric tons of CO<sub>2</sub> per year for the last 37 years.**



# The Status of CO<sub>2</sub> EOR in the U.S. (EOY 2023)

- In 2023 **139 projects** produced **241,000 Mbbbl/d** (87.9 MMbbl total) of incremental oil.
- **2.0 Bcf/d of CO<sub>2</sub>** (761.7 Bcf / 40 MMmt total) was used for CO<sub>2</sub> EOR projects injection and permanently stored.
- This is a CO<sub>2</sub> utilization rate of about 8.7 Mcf/bbl (0.46 mt/bbl).

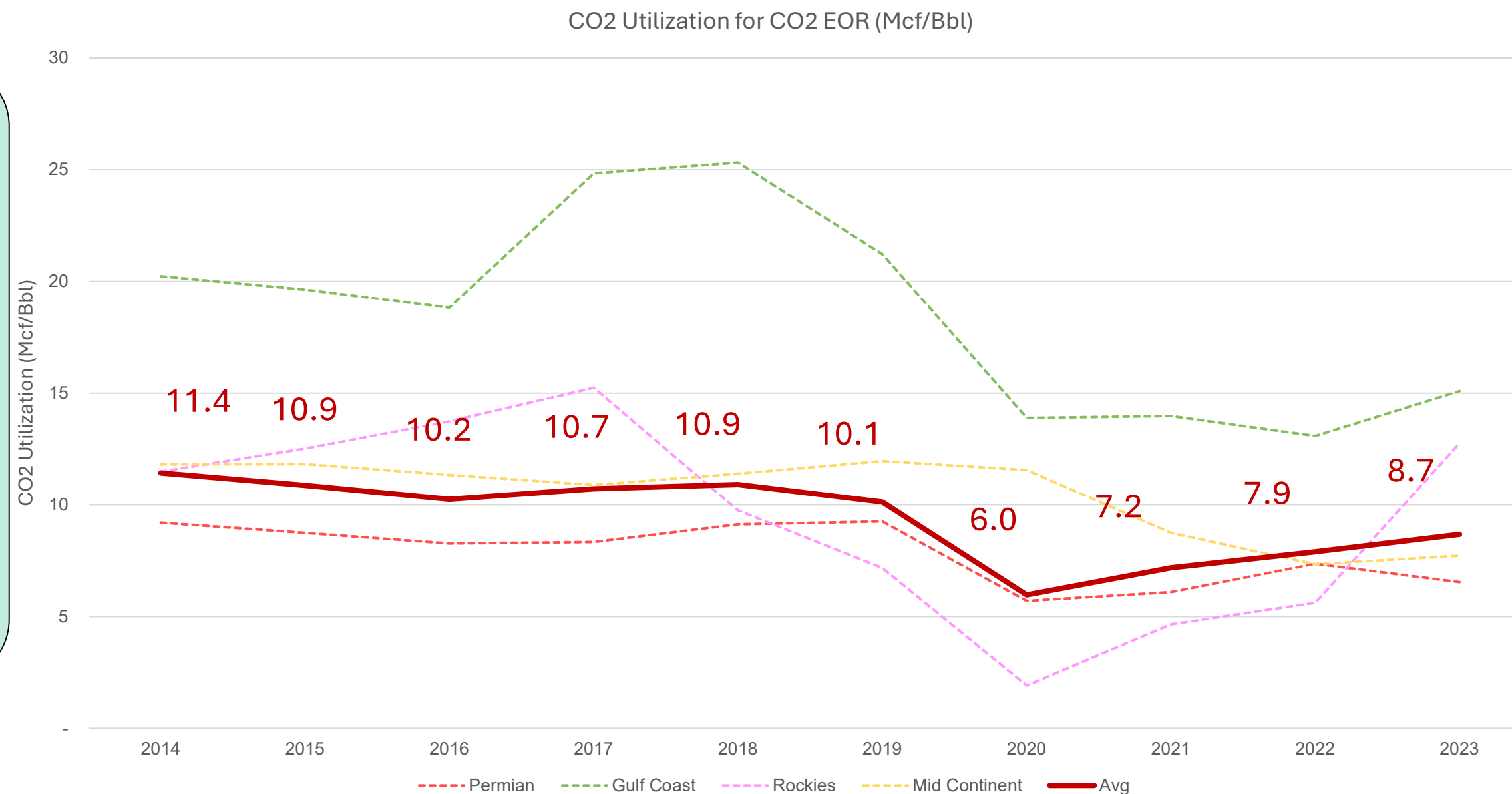




# CO<sub>2</sub> Utilization for CO<sub>2</sub> EOR in the U.S.

## CO<sub>2</sub> Emissions Per Barrel of Produced Oil

Activity	CO <sub>2</sub> Emissions	
	(mt/bbl)	(Mcf/bbl)
Production	0.007	0.1
Transportation	0.004	0.1
Refining	0.024	0.5
Consumption	0.416	7.9
Total	0.451	8.6



- CO<sub>2</sub> utilization is the volume of CO<sub>2</sub> injection required to produce a barrel of oil using CO<sub>2</sub> EOR -- average CO<sub>2</sub> utilization in 2023 was 8.7 Mcf/bbl (0.46 mt/bbl).
- CO<sub>2</sub> utilization above 8.6 Mcf/bbl (0.45 mt/bbl), using anthropogenic CO<sub>2</sub> supplies, provides a significant reduction in the carbon intensity of the produced oil.**



# CO<sub>2</sub> Supplies for CO<sub>2</sub> EOR (EOY 2023)

- CO<sub>2</sub> supply for CO<sub>2</sub> EOR has declined since 2017, along with CO<sub>2</sub> EOR oil production.
- However, anthropogenic CO<sub>2</sub> supply is increasing, relatively, as a larger percentage of total CO<sub>2</sub> supply.
- **Increased volumes of anthropogenic CO<sub>2</sub> for CO<sub>2</sub> EOR will lead to greater output of low-carbon intensity products in the U.S.**





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# COMPREHENSIVE CARBON ACCOUNTING : KEY TO UNLOCKING COMMERCIAL INVESTMENT IN HARD TO ABATE SECTORS

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**Alex Kizer**

Executive Vice President and Executive Director at H2DI  
EFI Foundation

# **Unleashing Markets to Drive Emissions Reductions Begins with Comprehensive Carbon Accounting**

Alex Kizer, EFI Foundation

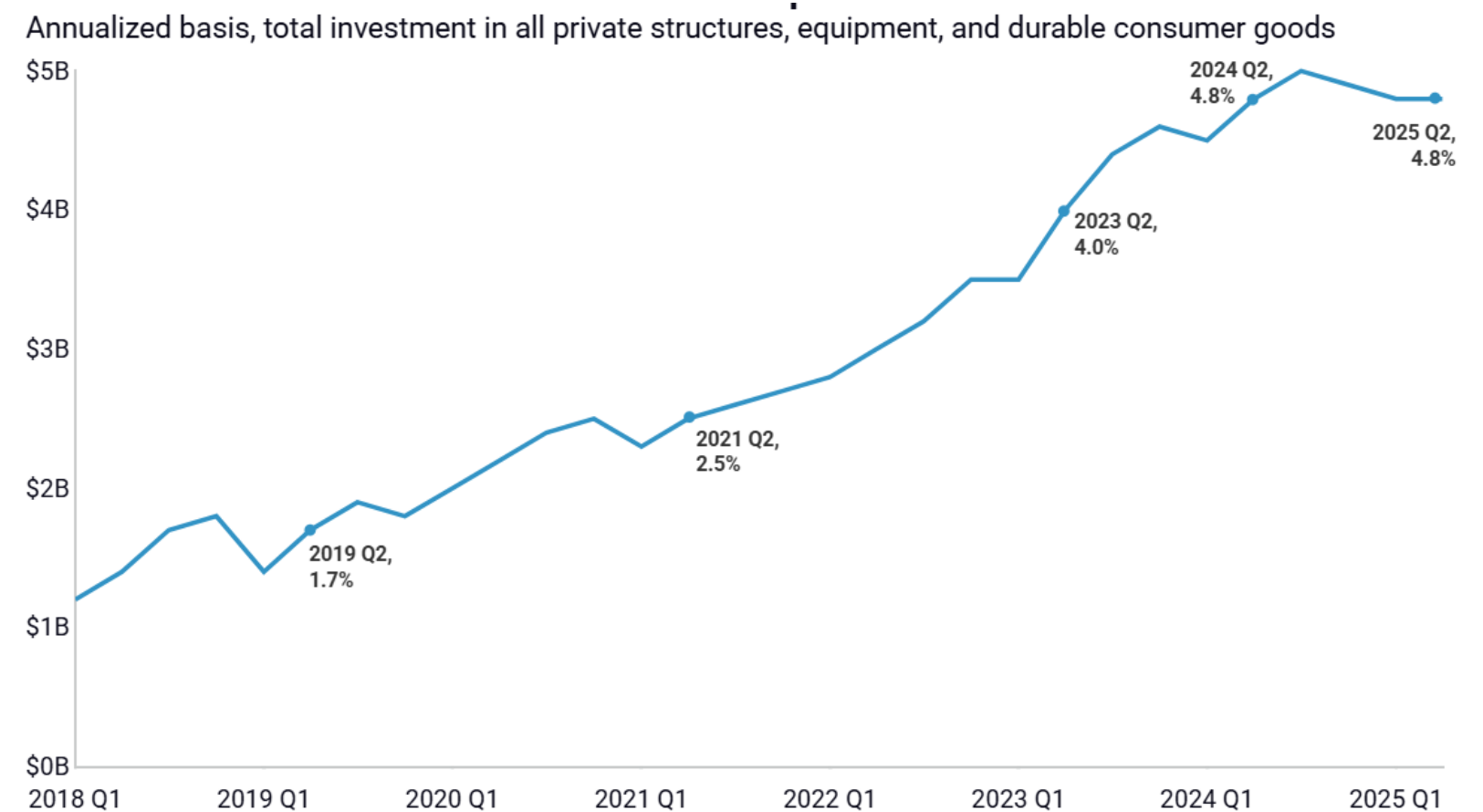


# Why Comprehensive Carbon Accounting is Important



- ❑ Energy demand is growing
- ❑ Supply-driven climate policies are inadequate for unlocking private investment
- ❑ Europe and China are developing new carbon standards that do not reflect America's competitive advantages
- ❑ Incumbent carbon measurement systems are not up to the task

## Actual clean investment as a share of total U.S. private investment



Source: Source: Rhodium Group/MIT-CEEPR Clean Investment Monitor and Bureau of Economic Analysis

# What is Comprehensive Carbon Accounting?

A new approach to quantifying and recording a business's transactions (e.g., purchase or sale of a fuel) that combines financial accounting and engineering. This enables companies to accounting for their own emissions so that all emissions are counted, only once.

## Accounting

- Comprehensive Carbon Mass and Energy Balances
- Ledger-Based Accounting

## Reporting

### Voluntary

- RECs
- Carbon balance
- Facility GHG statements

### Compulsory

- CBAM
- Gov't inventories
- GHG trading markets



# How does Comprehensive Carbon Accounting Work?

## Principles

**Faithful  
Representation**

**Relevance**

**Comparability**

**Verifiability**

**Transparency**

## **Comprehensive carbon mass and energy balances**

**"Gate-to-gate"  
boundary**

**All emissions and  
carbon content**

**Primary data; secondary  
data to be reconciled with  
primary data**

## Building Blocks

### **Ledger-based accounting**

**Interconnected  
ledgers across entities  
within supply chain**

**A dual-sided ledger with  
a chart of accounts  
holds stocks and flows**

**Double-entry bookkeeping  
of transactions as they  
occur**

### **Rule book**

**Emissions allocation to products**

**Emissions abatement within entity and  
offsets/credits from outside entity  
boundaries**

# Carbon accounting vs. LCAs

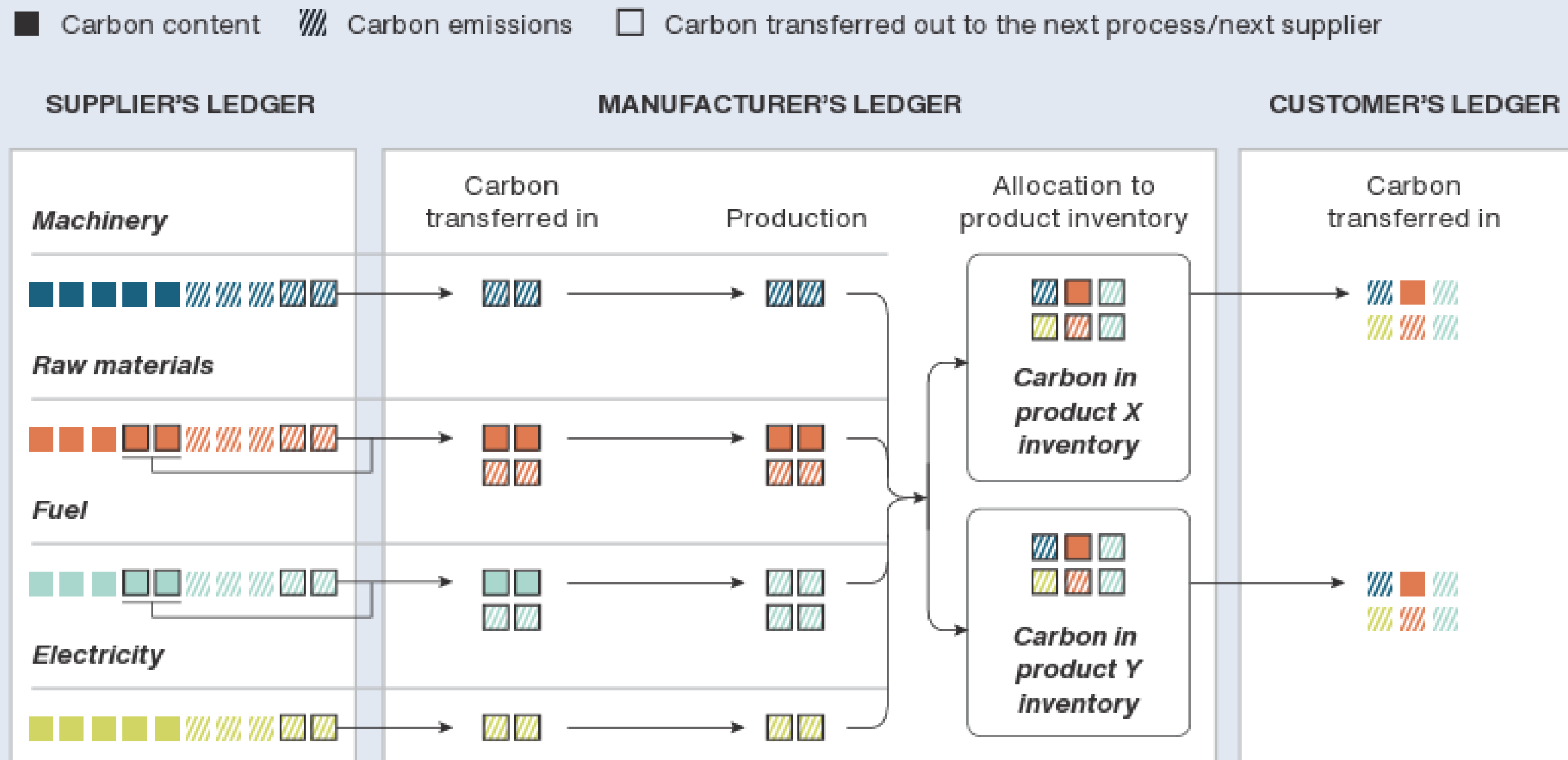


	Carbon Accounting	LCAs
Carbon Measurement	At its source by a single entity in control (only once by a single entity)	Anywhere by any entity (multiple counting or no counting)
Boundary	Gate-to-Gate (operations under the control of the entity)	Cradle-to-Grave (entire supply chain)
Time period	Carbon is recognized as it occurs (e.g., when direct emissions occur, when emissions transferred in with purchased materials)	Combine data from past, present, and future
Comprehensiveness	Product-level accounting aggregated to entity-level	Product-level results are not necessarily aligned with entity-level results
Data quality	Site-specific data (when feasible)	Broad averages



# Combining financial accounting with energy and mass balances

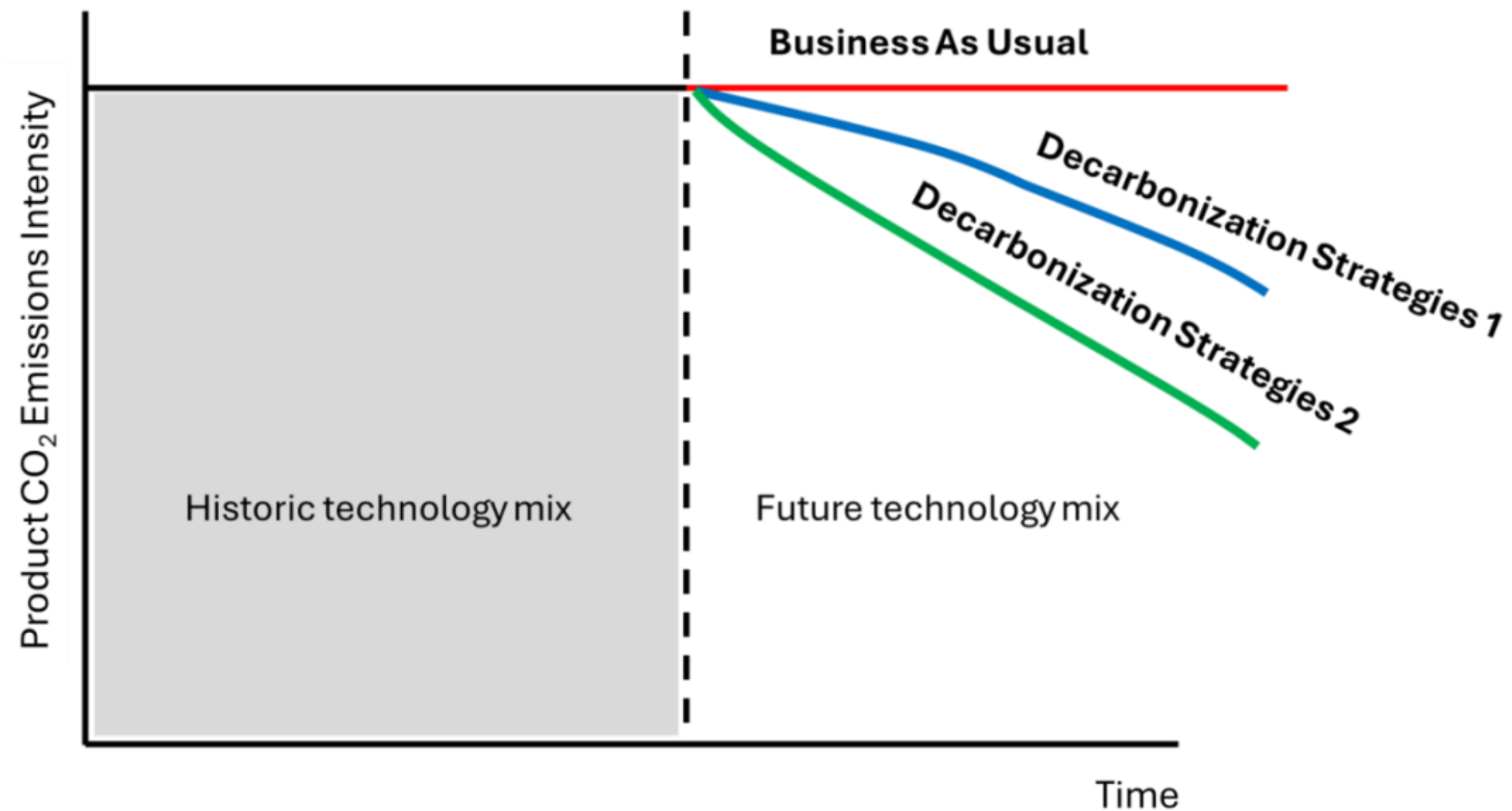
*Figure ES-1. ILLUSTRATIVE USE OF THE CARBON LEDGERS*



Source: EFI Foundation.

# Where are we headed?

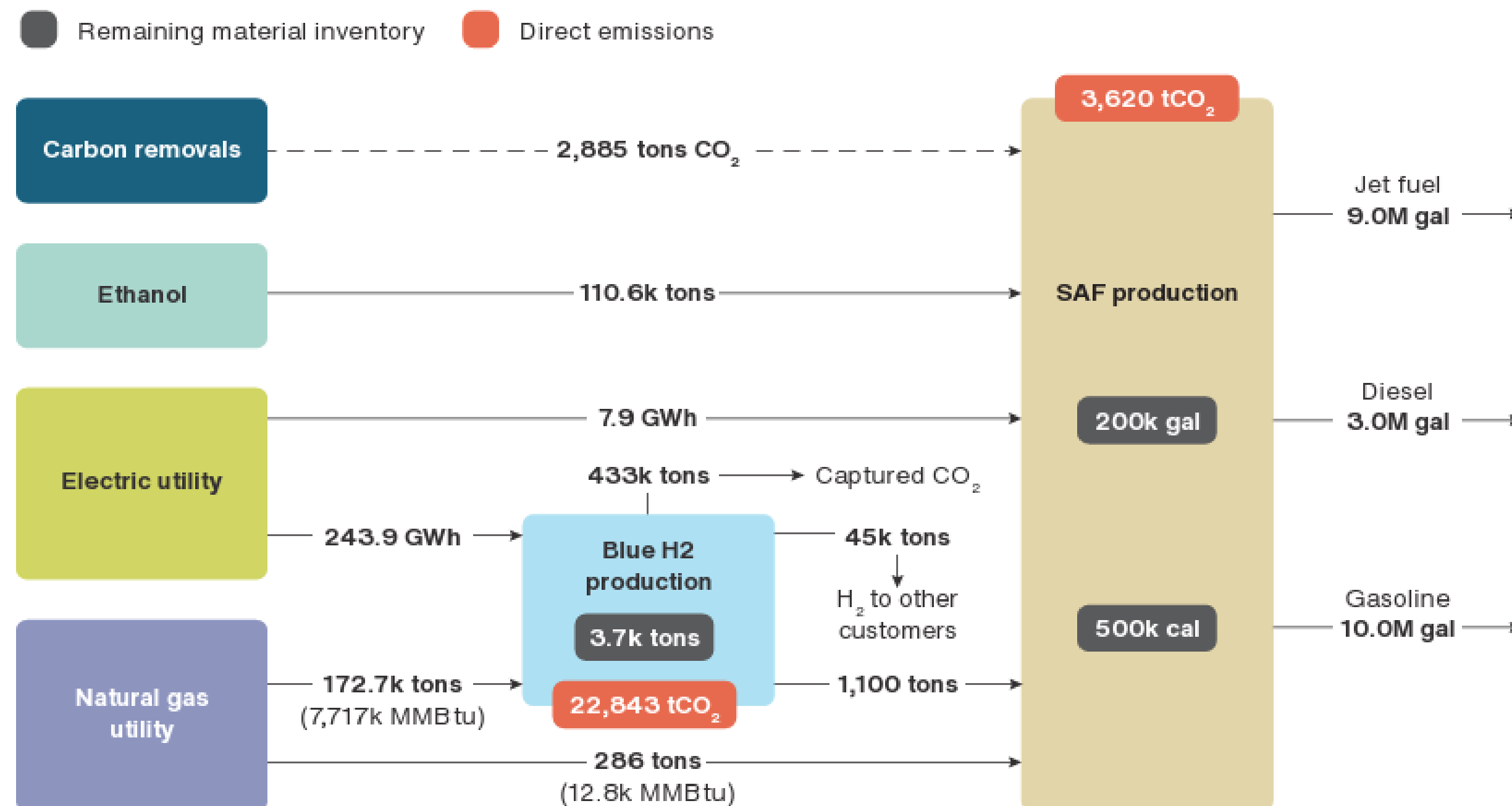
## Comprehensive Carbon Accounting Unlocks Product Carbon Intensity Standards





# Reducing Carbon Accounting to practice: A SAF Supply Chain

**Figure ES-2. OVERVIEW OF MASS AND ENERGY FLOWS IN THE MODELED SAF SUPPLY CHAIN**



Note: Values shown include material inputs (black) and direct facility emissions (orange). The dashed carbon removal flow indicates reduction credit, not a physical flow. Only CO<sub>2</sub> emissions shown in figure for clarity. tCO<sub>2</sub> = ton of carbon dioxide; MMBtu = million British thermal units; GWh = gigawatt-hours; gal = gallon.  
Source: Sesame Sustainability.

# Product carbon intensity statement for the blue hydrogen producer



## Blue Hydrogen Producer Product Carbon Emissions Intensity Statement Q1 20XX

Blue hydrogen	CO <sub>2</sub> intensity (kgCO <sub>2</sub> /gal)	CH <sub>4</sub> intensity (gCH <sub>4</sub> /gal)
Emissions from raw material production and transport	0.00	0.00
Emissions from electricity use	1.78	7.92
Emissions from fuel combustion	9.17	0.00
Emissions abated via CCS	(7.84)	0.00
Emissions from fuel production and transport	0.84	61.01
Emissions from production of equipment used	0.00	0.00
Emissions from transport of products	0.10	0.44
Emissions offsets used	0.00	0.00
<b>Product carbon emissions intensity in blue hydrogen</b>	<b>4.05</b>	<b>69.37</b>

Note: The statement shows product carbon emissions intensity by species, compiled directly from ledger account balances and calculated per kg of hydrogen sold.  
Source: Sesame Sustainability.



# Balanced ledgers promote trust and incentivize real carbon management



		Sum of Detailed Columns		Debit (Tons Carbon)				Credit (Tons Carbon)			
Memo	Account	Debit	Credit	CO <sub>2</sub>	CH <sub>4</sub>	CO & VOC	Carbon	CO <sub>2</sub>	CH <sub>4</sub>	CO & VOC	Carbon
Purchase 110.6k tons ethanol	Carbon Content in Raw Materials	57,609.9	-				57,609.9				
	Attributed Emissions in Raw Materials	(27,109.9)	-	(27,441.0)	181.1	150.0					
	Carbon Content Transferred In	-	57,609.9								57,609.9
	Emissions Transferred In	-	(27,109.9)					(27,441.0)	181.1	150.0	
		30,500.0	30,500.0	(27,441.0)	181.1	150.0	57,609.9		181.1	150.0	57,609.9
Purchase 12.8k MMBtu NG	Carbon Content in Fuels	206.6	-				206.6				
	Attributed Emissions in Fuels	20.4	-	18.8	1.4	0.2					
	Carbon Content Transferred In	-	206.6								206.6
	Emissions Transferred In	-	20.4					18.8	1.4	0.2	
		227.1	227.1	18.8	1.4	0.2	206.6	18.8	1.4	0.2	206.6
Purchase 7.93 GWh electricity	Attributed Emissions in Electricity	791.8	-	787.7	3.5	0.6					
	Emissions Transferred In	-	791.8					787.7	3.5	0.6	
		791.8	791.8	787.7	3.5	0.6	0.0	787.7	3.5	0.6	0.0
Purchase 1.1k tons Blue H <sub>2</sub>	Attributed Emissions in Raw Materials	1,245.4	-	1,221.1	20.9	3.4					
	Emissions Transferred In	-	1,245.4					1,221.1	20.9	3.4	
		1,245.4	1,245.4	1,221.1	20.9	3.4	0.0	1,221.1	20.9	3.4	0.0
Purchase of Carbon Removals	Carbon Removals – Offsets	-	(791.8)					(787.7)	(3.5)	(0.6)	
	Carbon Removals in WIP	(791.8)	-	(787.7)	(3.5)	(0.6)					
		(791.8)	(791.8)	(787.7)	(3.5)	(0.6)	0.0	(787.7)	(3.5)	(0.6)	0.0

Note: Each transaction records debits and credits to appropriate carbon accounts by species, maintaining double-entry accounting principles. Source: Sesame Sustainability.

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## NETWORKING BREAK – 30 MINS

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We will resume our  
program at 3:30 PM





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# LEADING THE WAY ON LOW CARBON POWER: GLACIER PHASE 2 CCS PROJECT

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**Erik Petursson**

Vice President, Policy and Carbon Markets  
Entropy



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# ENTROPY INC.

*Leading the way on low-carbon power – Glacier Phase 2 CCS Project.*

Global CCS Institute:  
*Member meeting November 2025*

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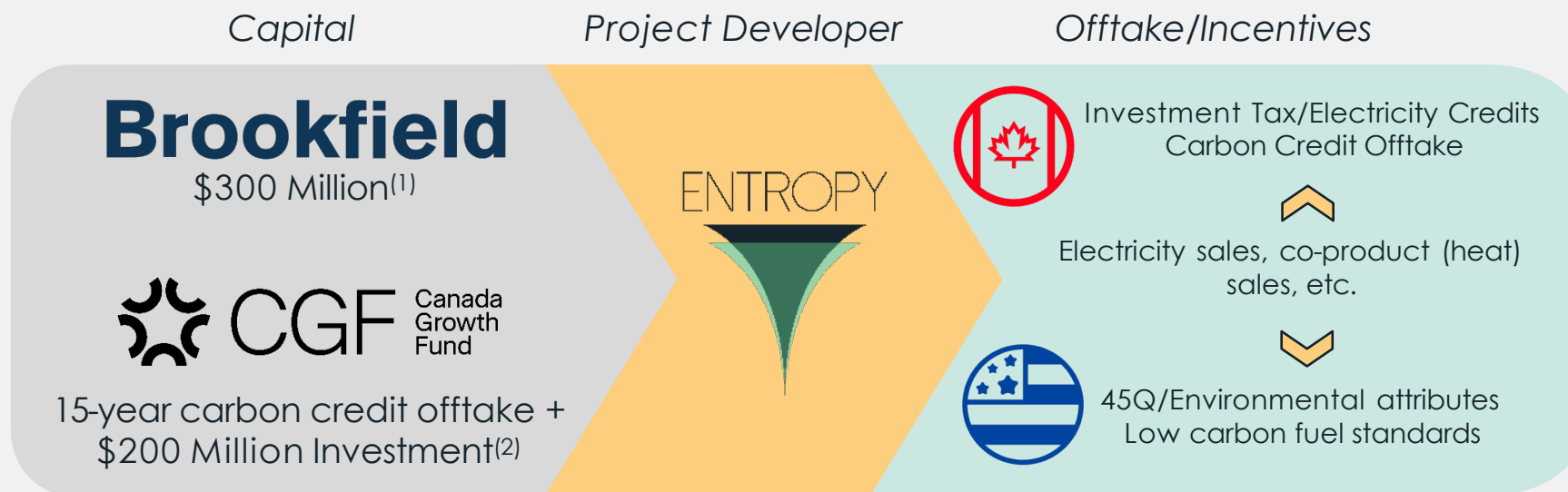


# EXECUTIVE SUMMARY

Leading carbon capture & sequestration project developer

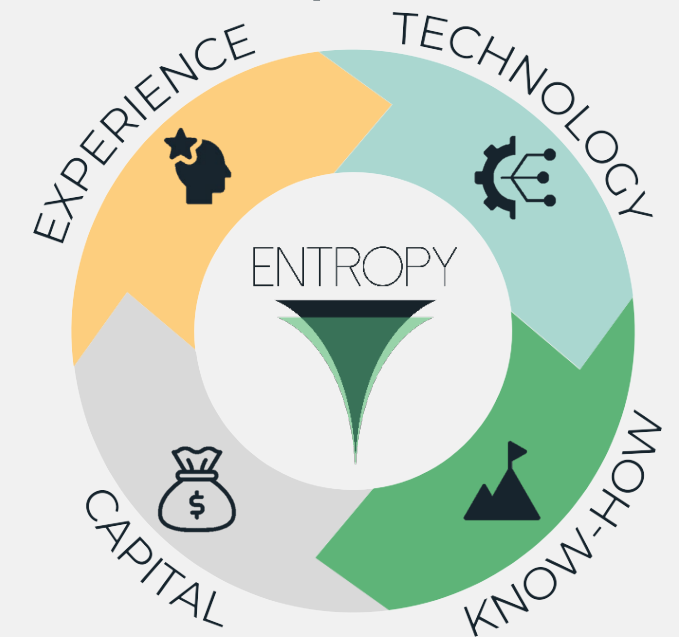


## Access to Capital & Carbon Price Certainty

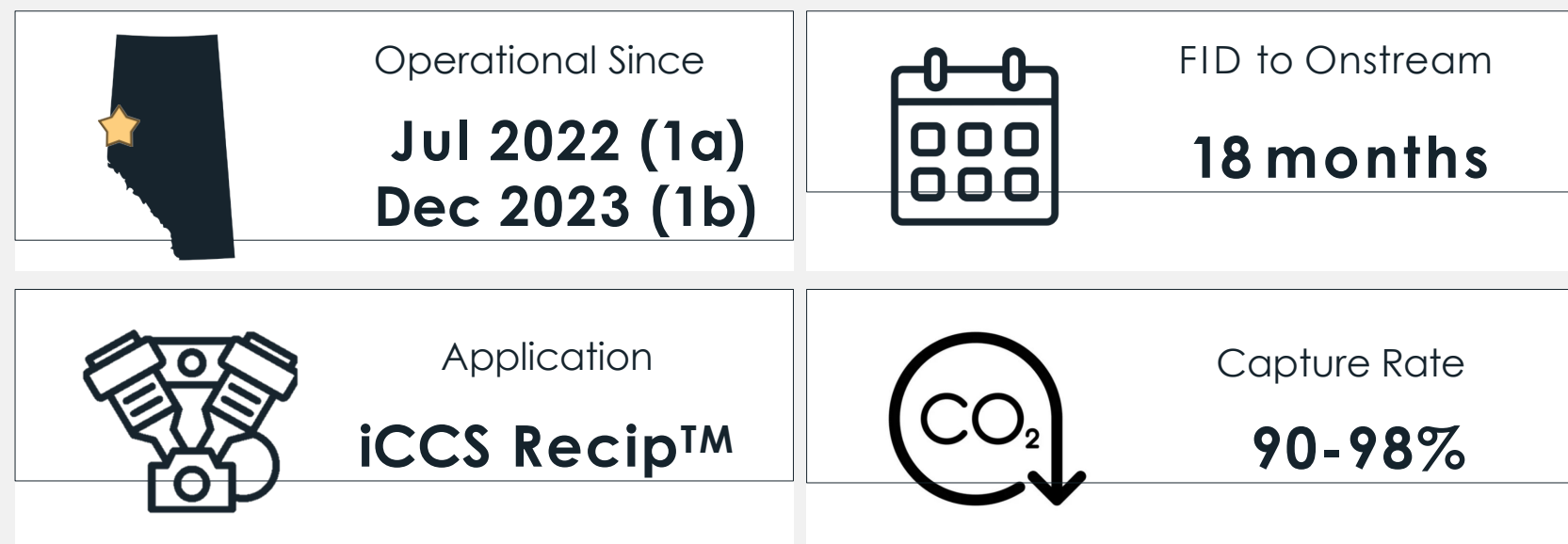


## Pure-Play, Full Scope CCS Developer

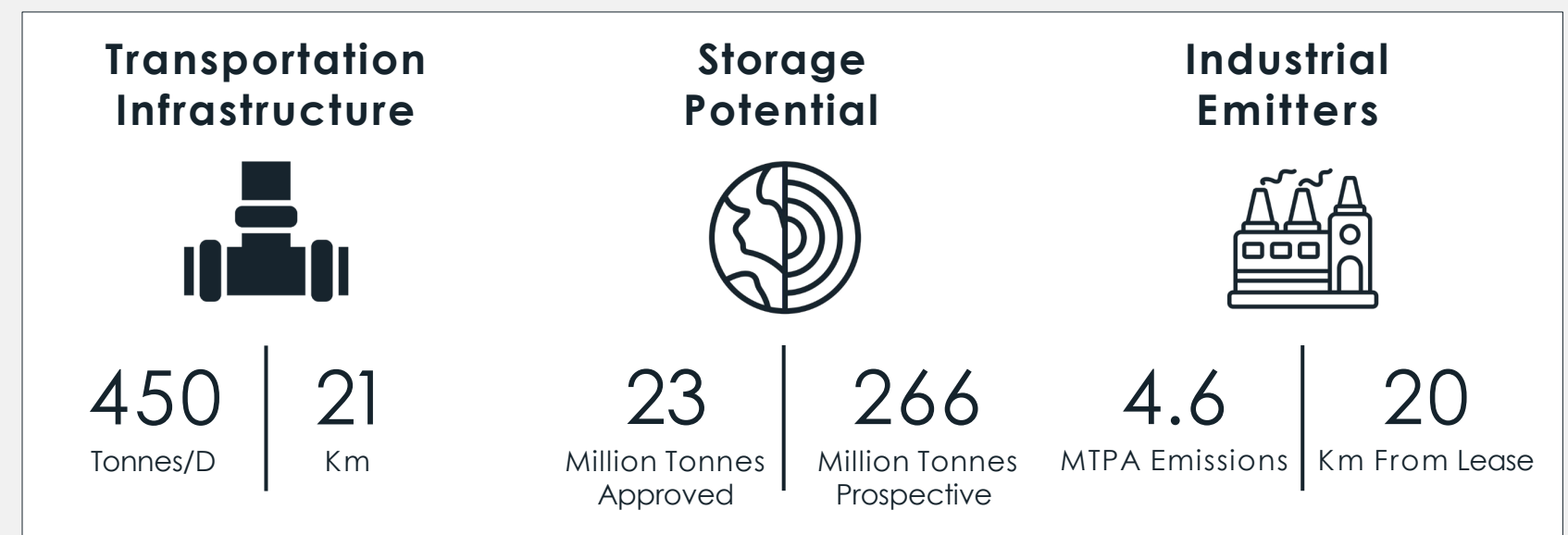
- Advanced carbon capture technology
- Permitting/Licensing
- Subsurface Evaluation
- Measurement, Monitoring & Verification (MMV)
- CO<sub>2</sub> Validation & Monetization
- **“Carbon Credit Offtake” (CCO) price guarantee**



## Learning By Doing – Glacier Post-Combustion CCS (Alberta)



## World-Class Infrastructure Project: Belle Plaine (Saskatchewan)



1. See press release – [entropyinc.com](https://entropyinc.com). March 28, 2022.  
2. See press release – [entropyinc.com](https://entropyinc.com). December 20, 2023

# MODULAR CARBON CAPTURE & STORAGE

Enabling investable CCS projects with next generation carbon capture technology



- Entropy's novel carbon capture process is an accumulation of expertise from decades of experience with amine processes
- Proprietary waste heat integration for capture process efficiency (0 GJ/T external heat)
- Modular integration on new-build or retrofit to existing infrastructure
- Adaptable to CO<sub>2</sub> flue gas concentrations from engines, boilers and industrial sources

## Emission Sources



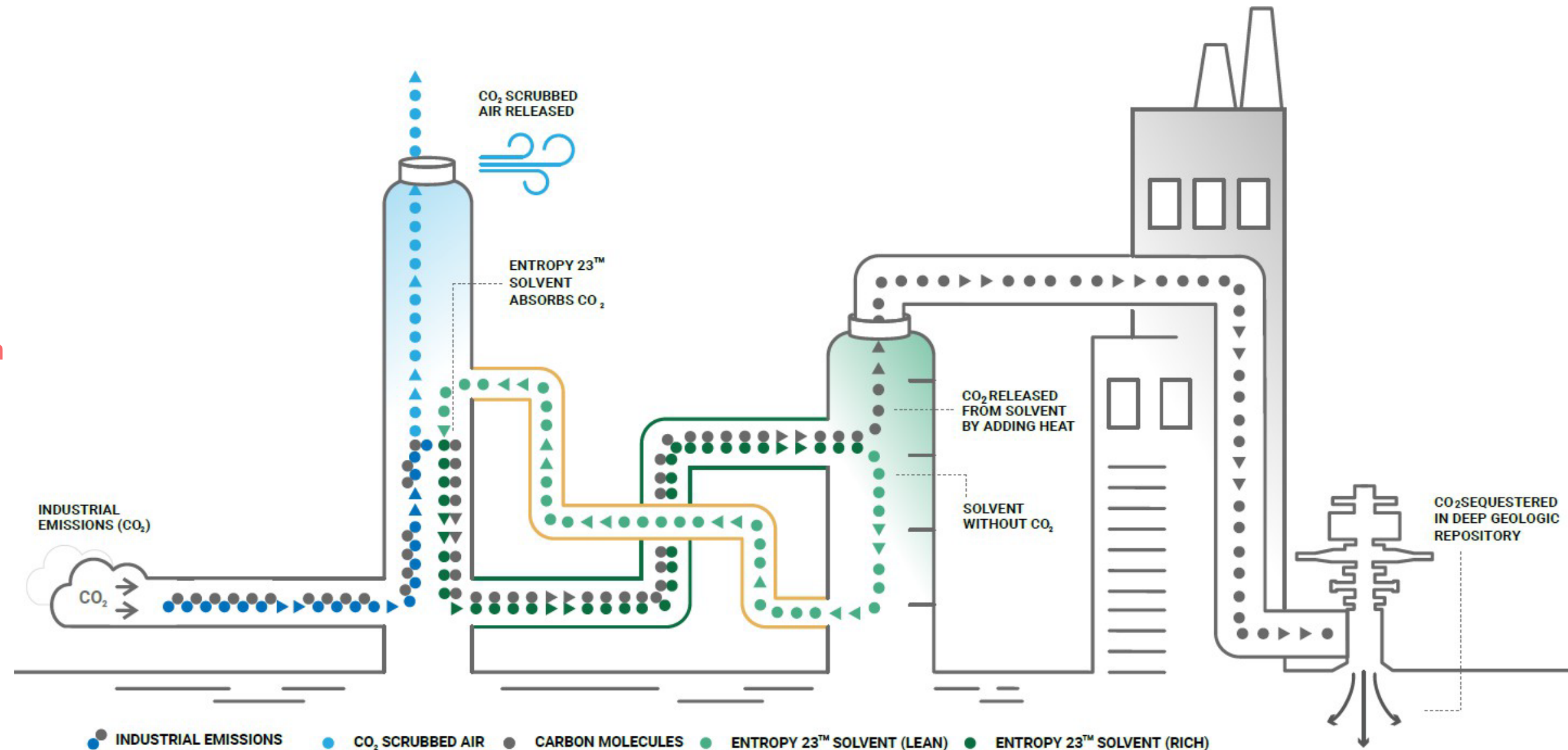
iCCS Engine  
Reciprocating & Turbine  
Onstream Under Construction



iCCS Thermal  
Boilers & Furnaces  
Front-End Engineering & Design

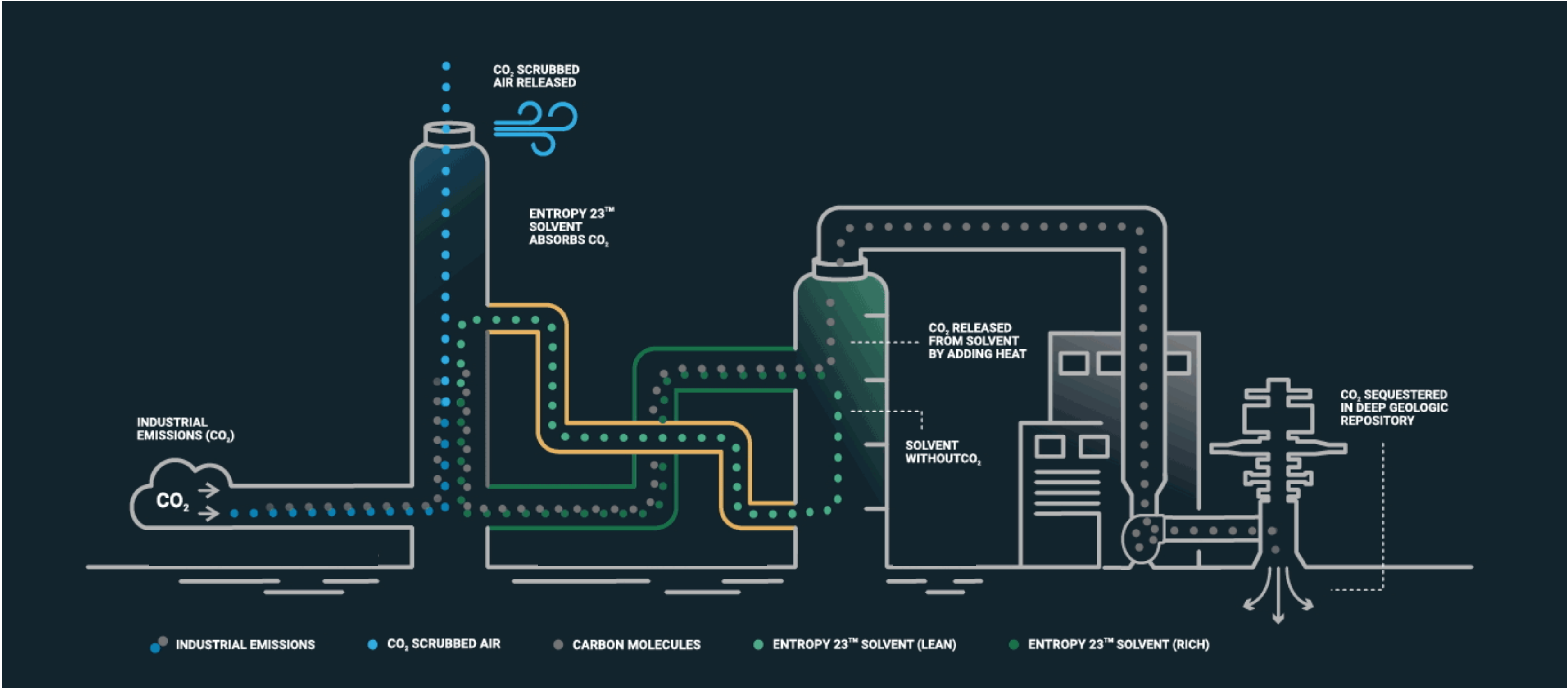


iCCS Industrial  
Pre-combustion Industrial  
Under Construction



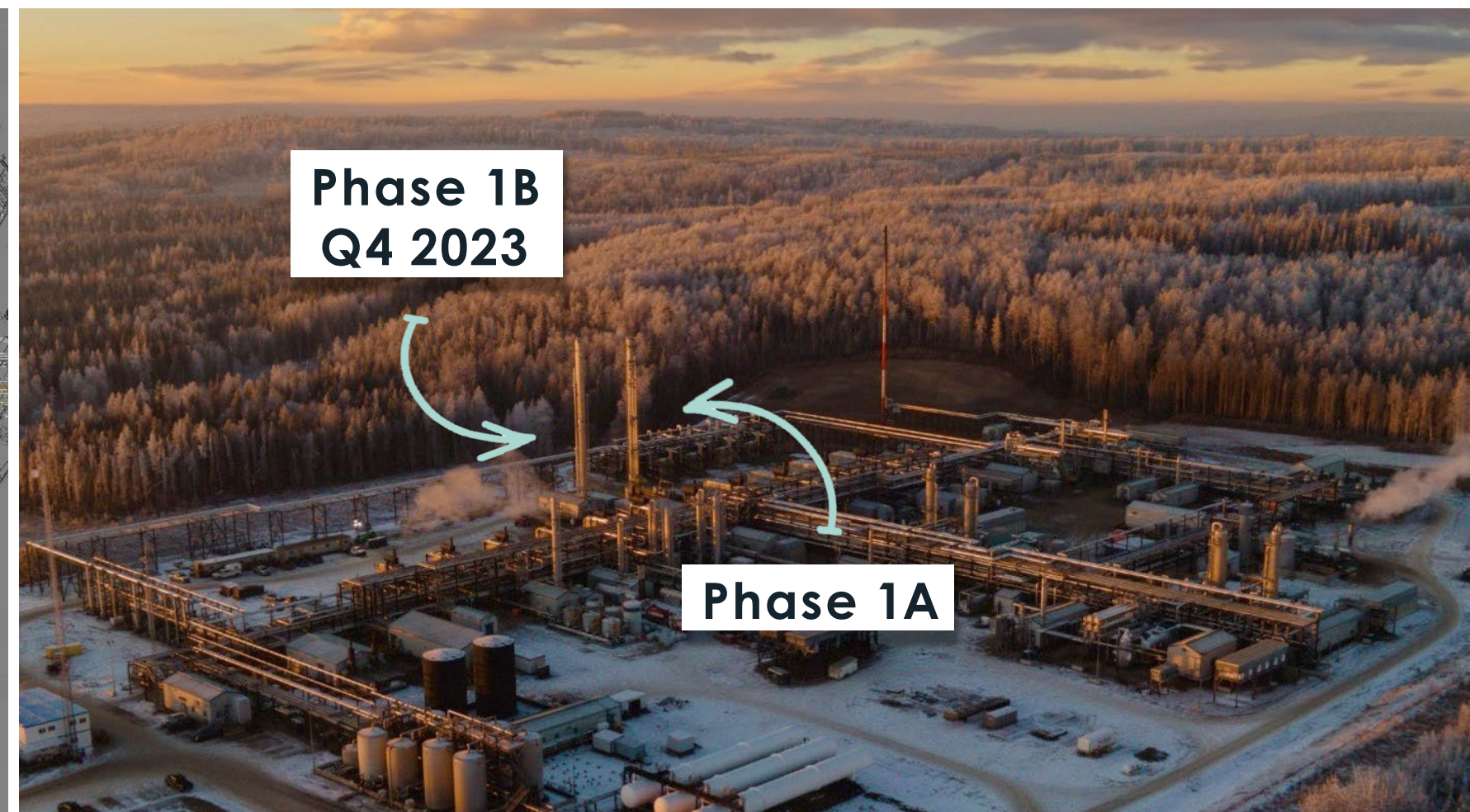
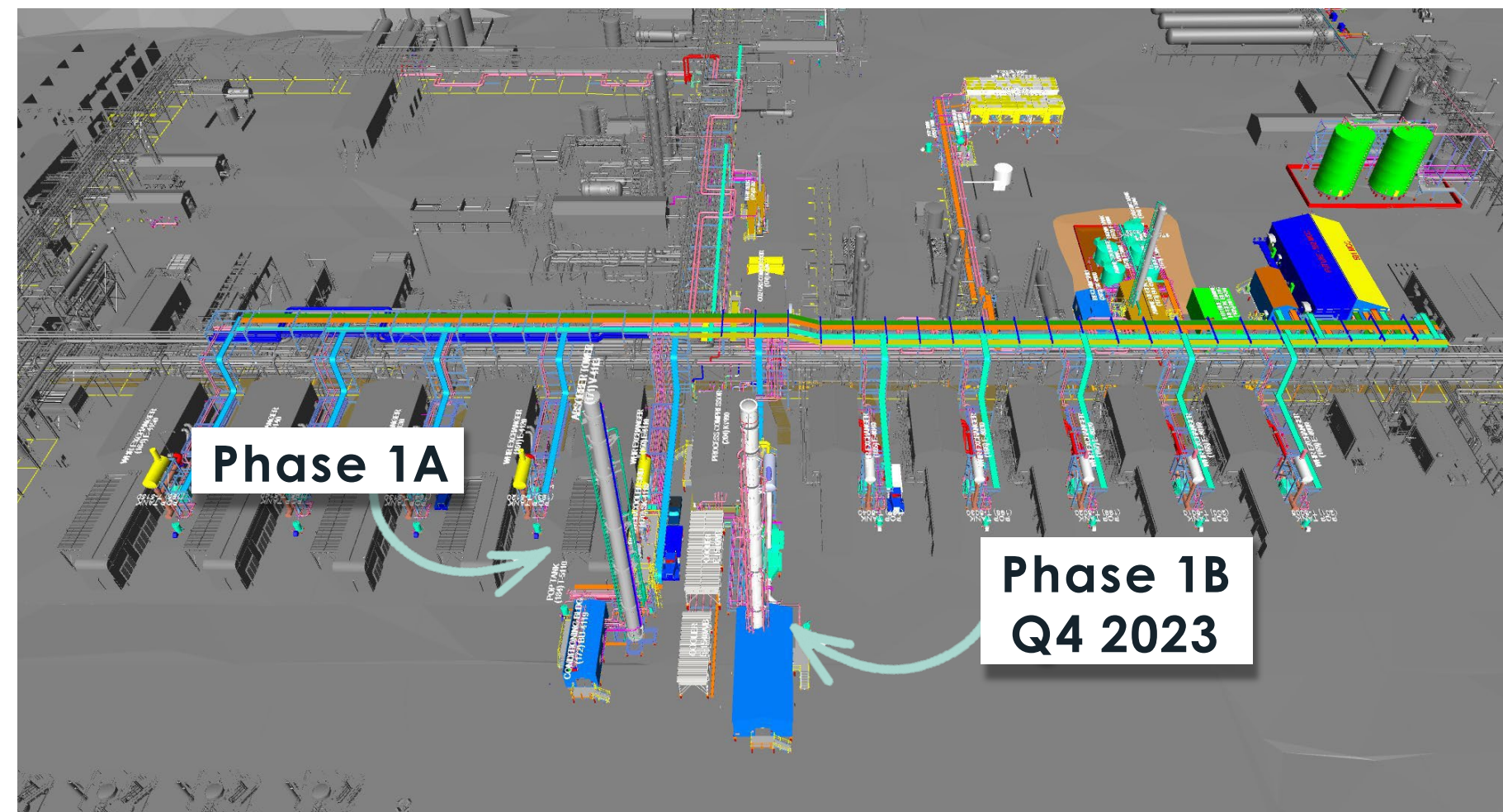


# OVERVIEW OF CCS PROCESS: ENTROPY CONFIGURATION





# GLACIER PHASE 1A AND 1B: TIMELINE



- Phase 1a: first modular CCS (MCCS™) project – **Q2 2022** (16,000 tpa)
- Phase 1b: first integrated CCS (iCCS™) – **Q4 2023** (16,000 tpa)
- Phase 2: capture from remaining compressors (9) and a natural gas turbine – **2026** (~160,000 tpa, 15 MW decarbonized baseload power)

- CO<sub>2</sub> revenue via Emission Performance Credits - Alberta's TIER program
- Revenue through Clean Power Purchase Agreement
- Guaranteed offtake via Canada Growth Fund's Carbon Credit Offtake commitment<sup>1</sup>

1. See press release December 20<sup>th</sup>, 2023 [\(link\)](#)



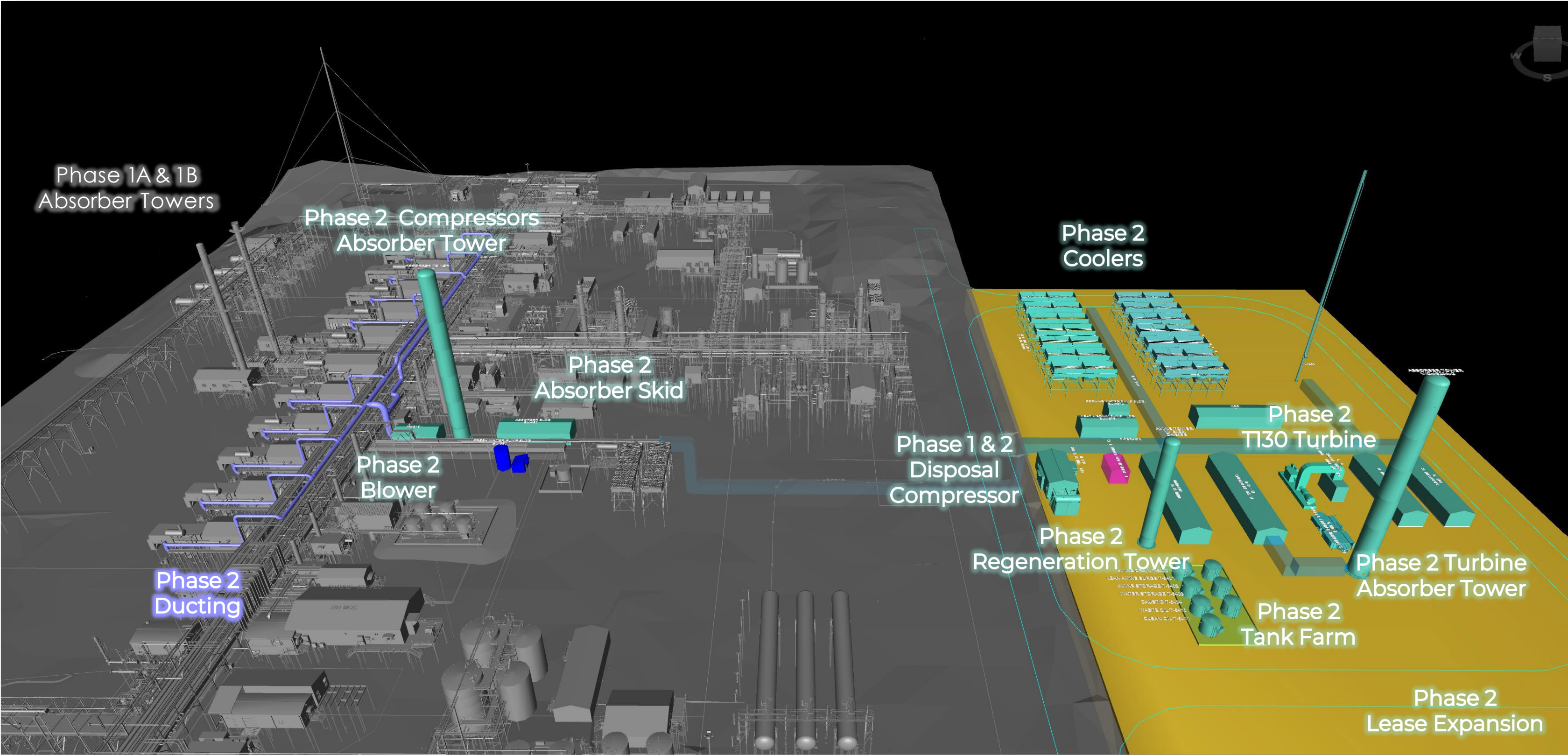
# GLACIER NATURAL GAS PLANT AND CCS PROJECT PHASE 1 A+B





# GLACIER PHASE 2: ONSTREAM Q2 2026

Implementing the world's first decarbonized base-load power (Onstream 2026)





# Glacier Phase 2: Under Construction

*Implementing the world's first decarbonized base-load power (onstream 2026)*



**CURRENT AS OF August 10th**



# GLACIER PHASE 2: UNDER CONSTRUCTION

*Implementing the world's first decarbonized base-load power (onstream 2026)*



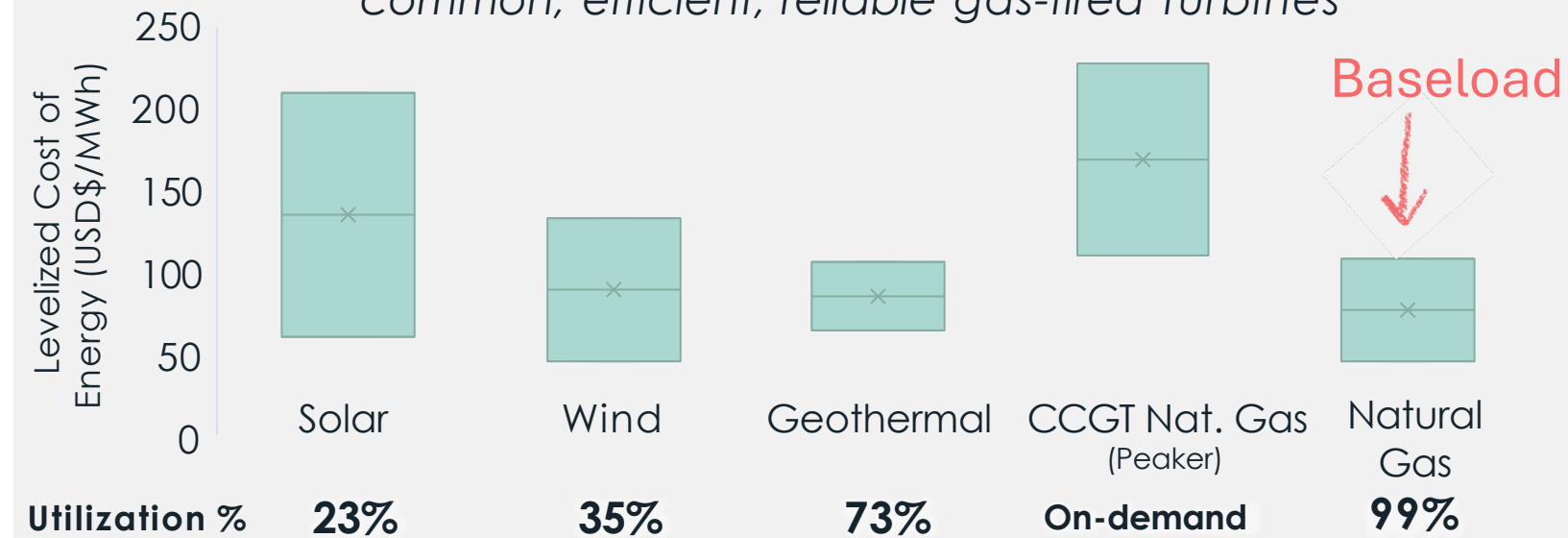


# ESTABLISHING A LEADING POSITION AS AN INTEGRATED CLEAN POWER PRODUCER

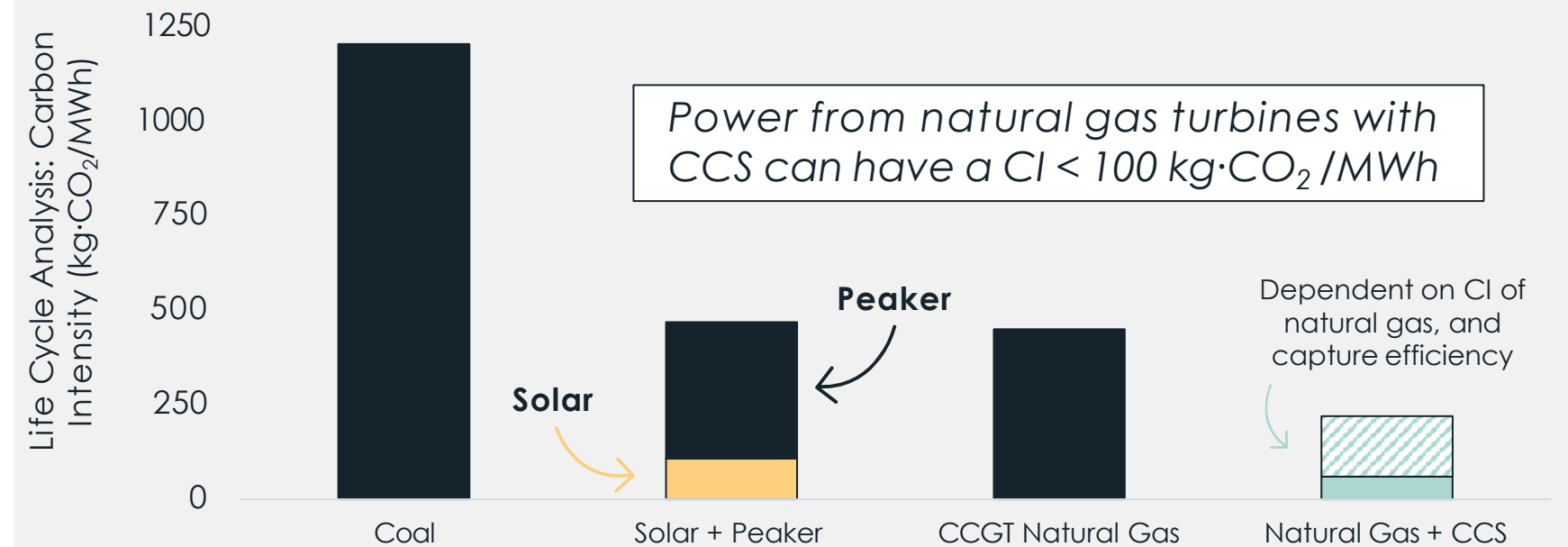
Combining affordable, reliable electricity with independently funded CCS

## Affordable Baseload (Always-On) Power<sup>1</sup>

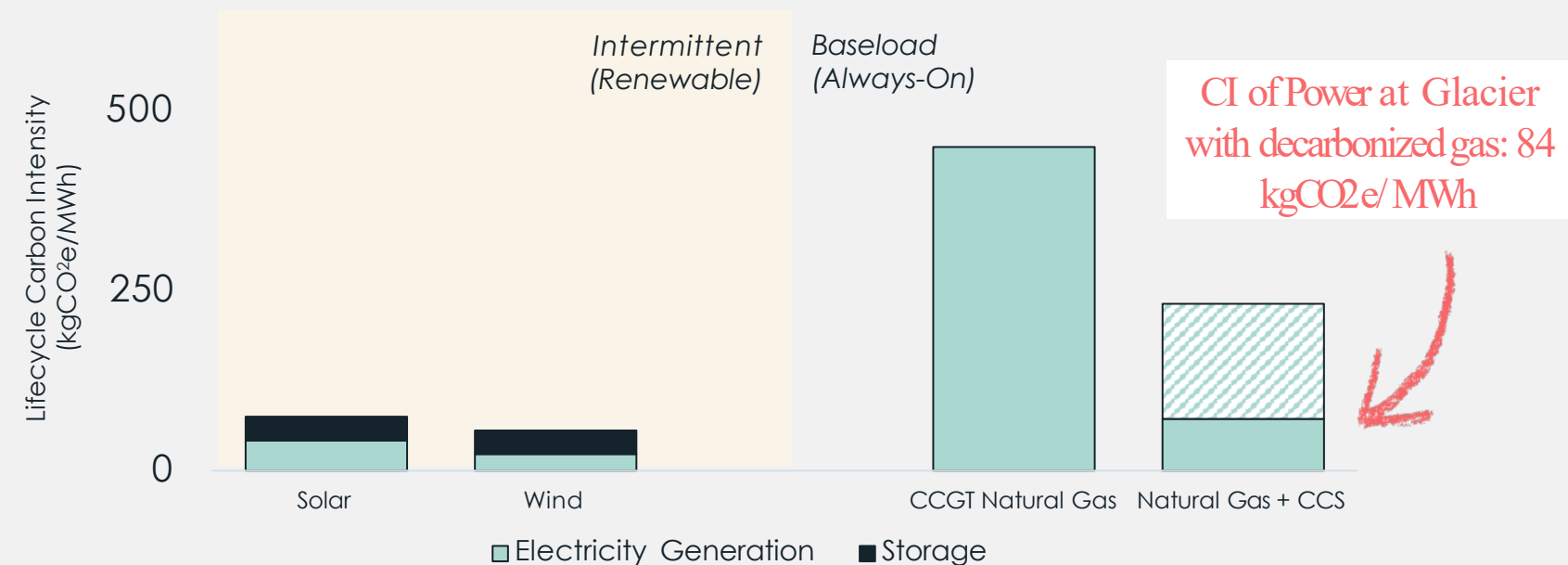
Entropy is constructing baseload power using common, efficient, reliable gas-fired turbines



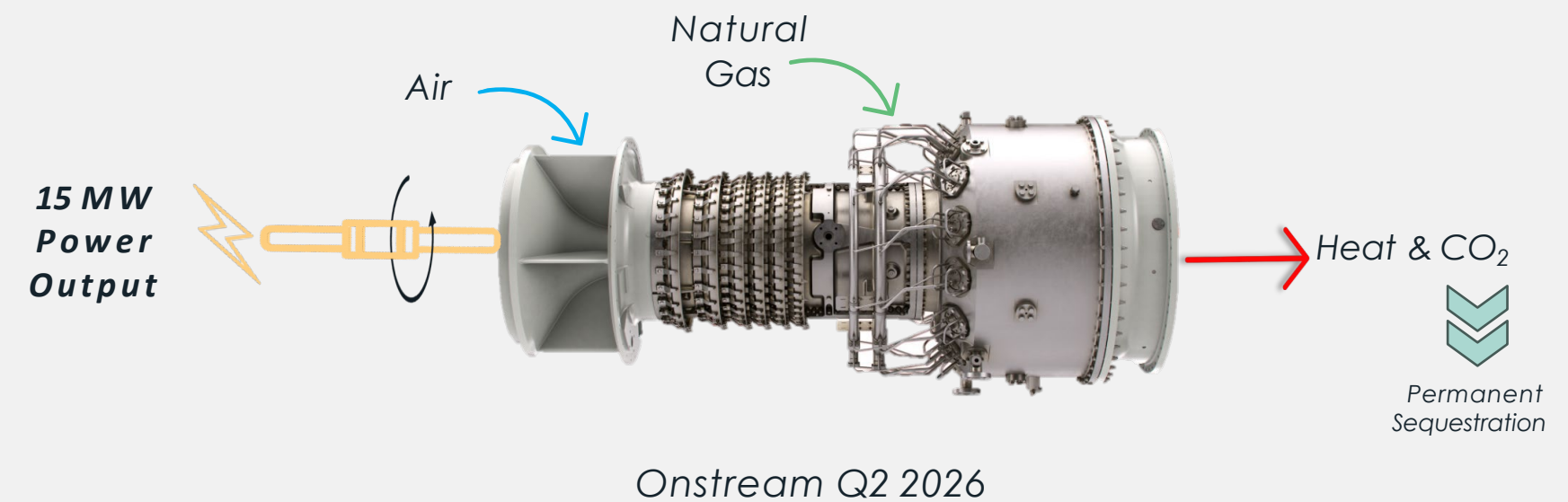
## Baseload Power Carbon Intensity Comparison<sup>2,4</sup>



## The Best Option for Climate-Aligned Power



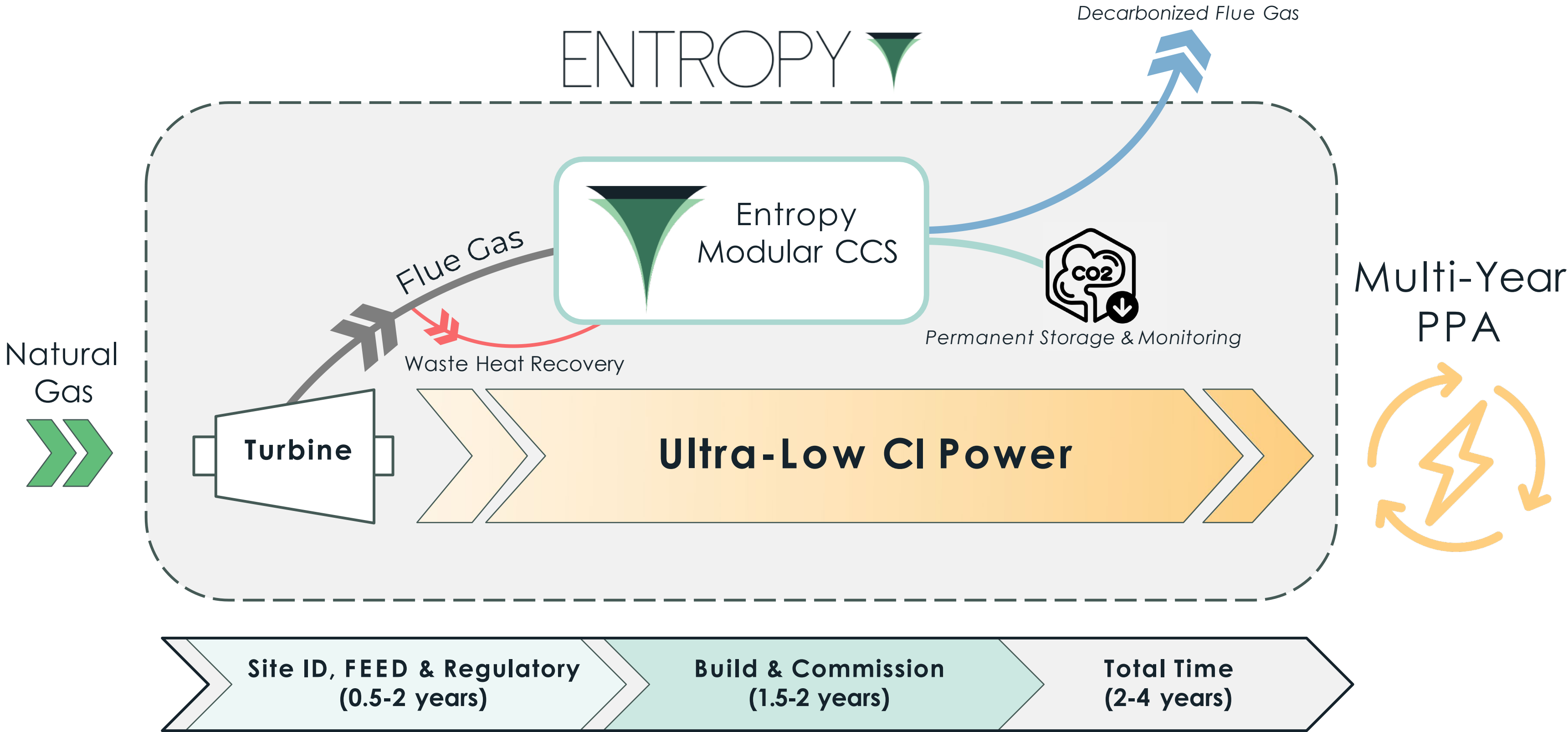
## Achieved FID and currently constructing the world's first natural gas power turbine with integrated CCS



(1) Lazard. Levelized Cost of Energy+. June 2024  
(2) NREL. Life Cycle Greenhouse Gas Emissions from Electricity Generation. 2021  
(3) See press release December 20<sup>th</sup>, 2023 [\[link\]](#)  
(4) Assumes solar efficiency of 23%, offset by peaker power with a natural gas turbine

# ENTROPY'S TECHNOLOGY DEPLOYS RAPIDLY, DELIVERING CLEAN POWER

Turnkey baseload ultra -low CI power generation provided under PPA

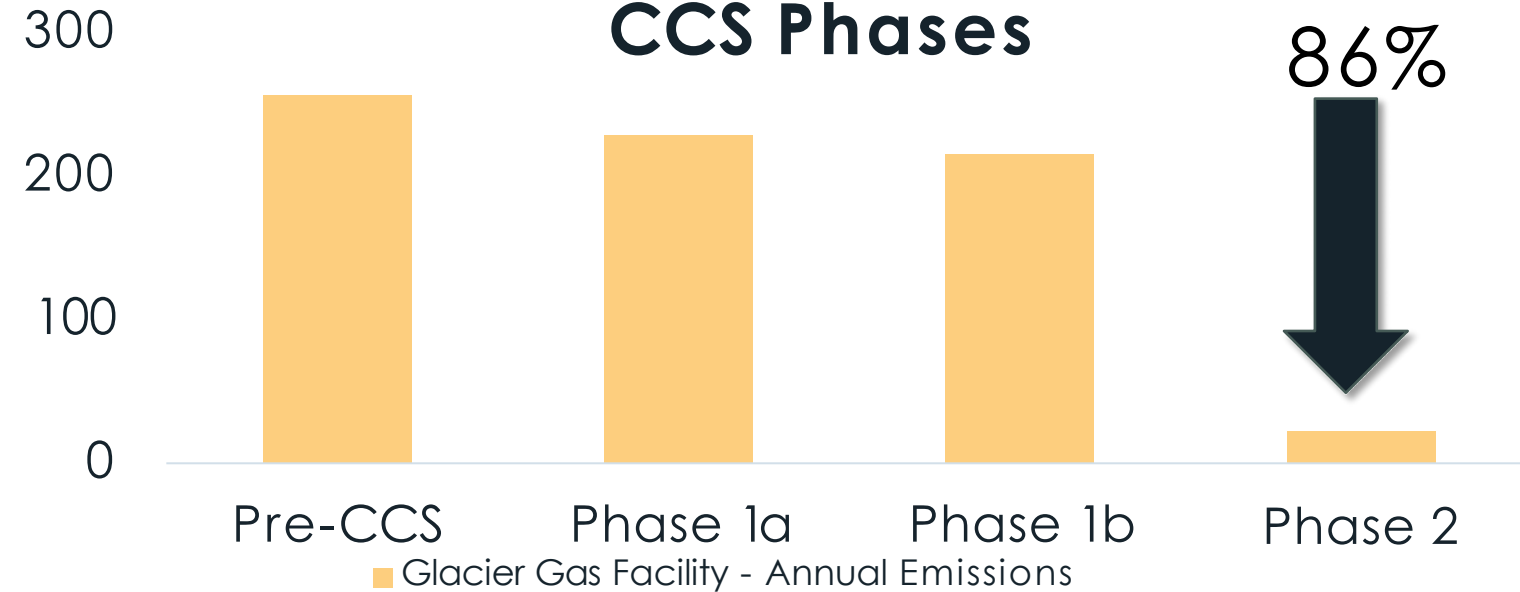




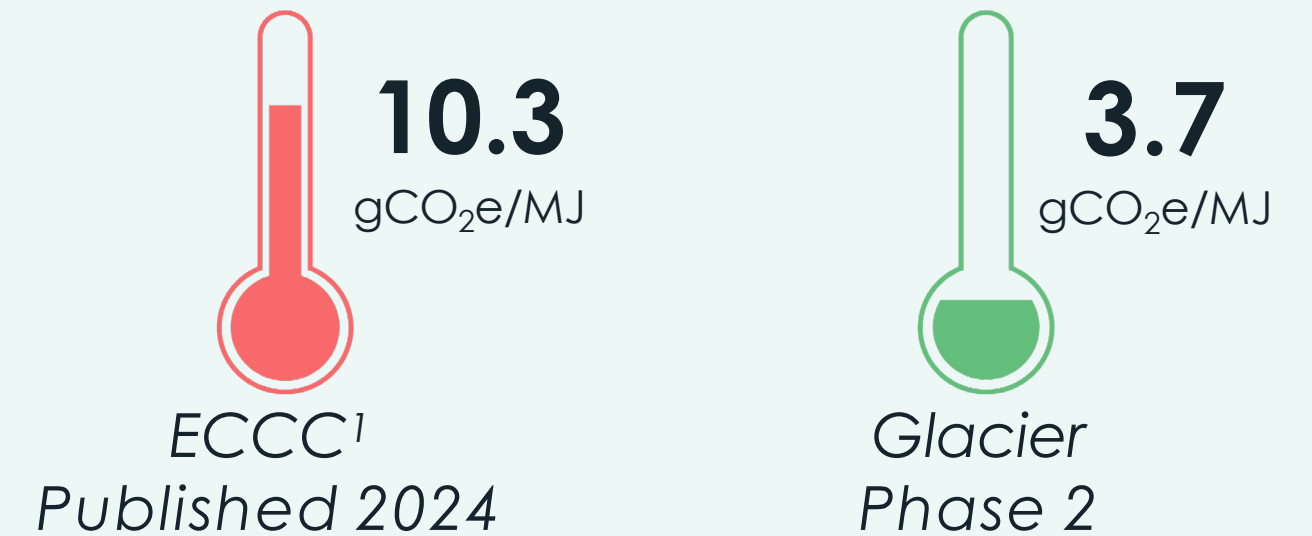
# GLACIER – EMISSIONS REDUCTION

Onstream Today    – Capture from gas    -fired engines

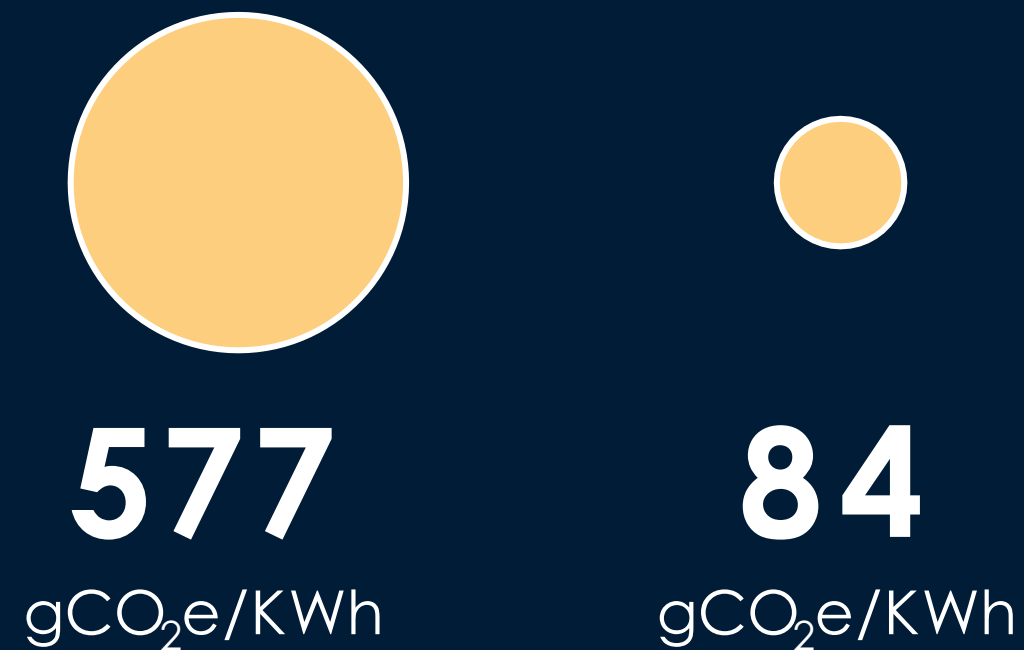
## Glacier Gas Facility Emissions: Through CCS Phases



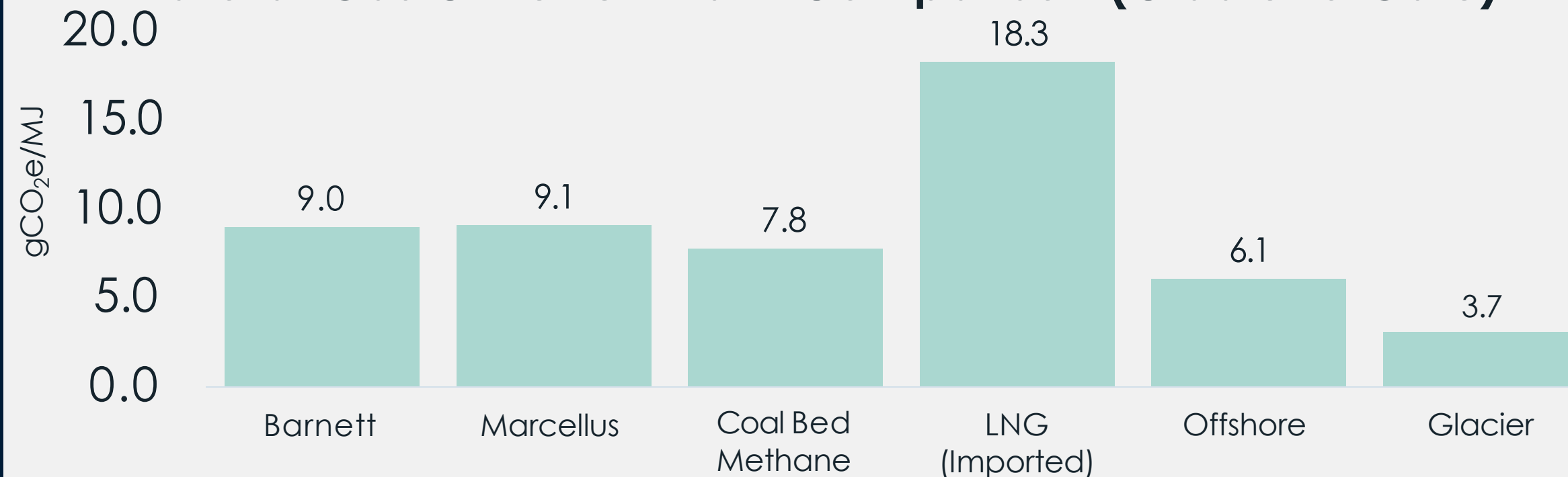
## Natural Gas Carbon Intensity (Cradle to Gate)



## Electricity Carbon Intensity



## Natural Gas CI Benchmark Comparison (Cradle to Gate)<sup>2</sup>



1. [Environment & Climate Change Canada: Carbon: Pre-publication: Updated carbon intensity of natural gas and propane. 2023](#)

2. [US DOE – National Energy Technology Laboratory. Life Cycle Analysis of Natural Gas Extraction and Power Generation. 2014](#)

# ENTROPY: HUB DEVELOPER & OWNER

Accumulating capture, infrastructure and storage projects in Canada



## Glacier Post-Combustion

iCCS Recip™ (compressor engine)  
iCCS Turbine™ (power and heat generation)  
Partner: Advantage Energy Ltd, local disposal

- Triassic Baldonnel Formation
- Current Injecting 40 TPD
- Glacier Phase 2 –
  - Under Construction
  - Operational by 2026
  - Injecting ~160 Ktpa, plus 15 MW decarbonized baseload power



## GP Net Zero Hub

Alberta Pore Space Evaluation Permit

- Partners: North River, Keyera
- Belloy Formation, 3.3 MTPA Capacity

## North Battleford Hub

Saskatchewan Lease of Space (LOS)

## Belle Plaine Hub

Saskatchewan Lease of Space  
62 km<sup>2</sup> Saskatchewan LOS



- 179m Deadwood Formation, Up to 17% Porosity.
- 0.15 MTPA Q4 2025, 1.16MTPA by 2028,
- 2.0 MTPA by 2029

## Rolling Hills Hub

Partner: AltaGas,

- 1,379 km<sup>2</sup> Alberta Pore Space Evaluation
- Leduc Formation. Ready for Approval

## Bow Valley Carbon Hub

Partner: Inter Pipeline, 853 km<sup>2</sup> Alberta Pore Space Evaluation  
Pending Carbon Sequestration Agreement (expected Q4 2025)



- 210m Leduc Formation
- High Permeability
- 0.44 Gigaton Capacity
- 40 KTPA by Q2 2026 from Cochrane Extraction Plant
- Capacity for Industry along Bow Valley Corridor and Calgary

## Medicine Hat Post-Combustion

iCCS Thermal, Partner: Methanex

- Status – engineering pre-FEED
- Excellent geology for local storage
- 175m combined Leduc, Beaverhill Lake, Basal Cambrian

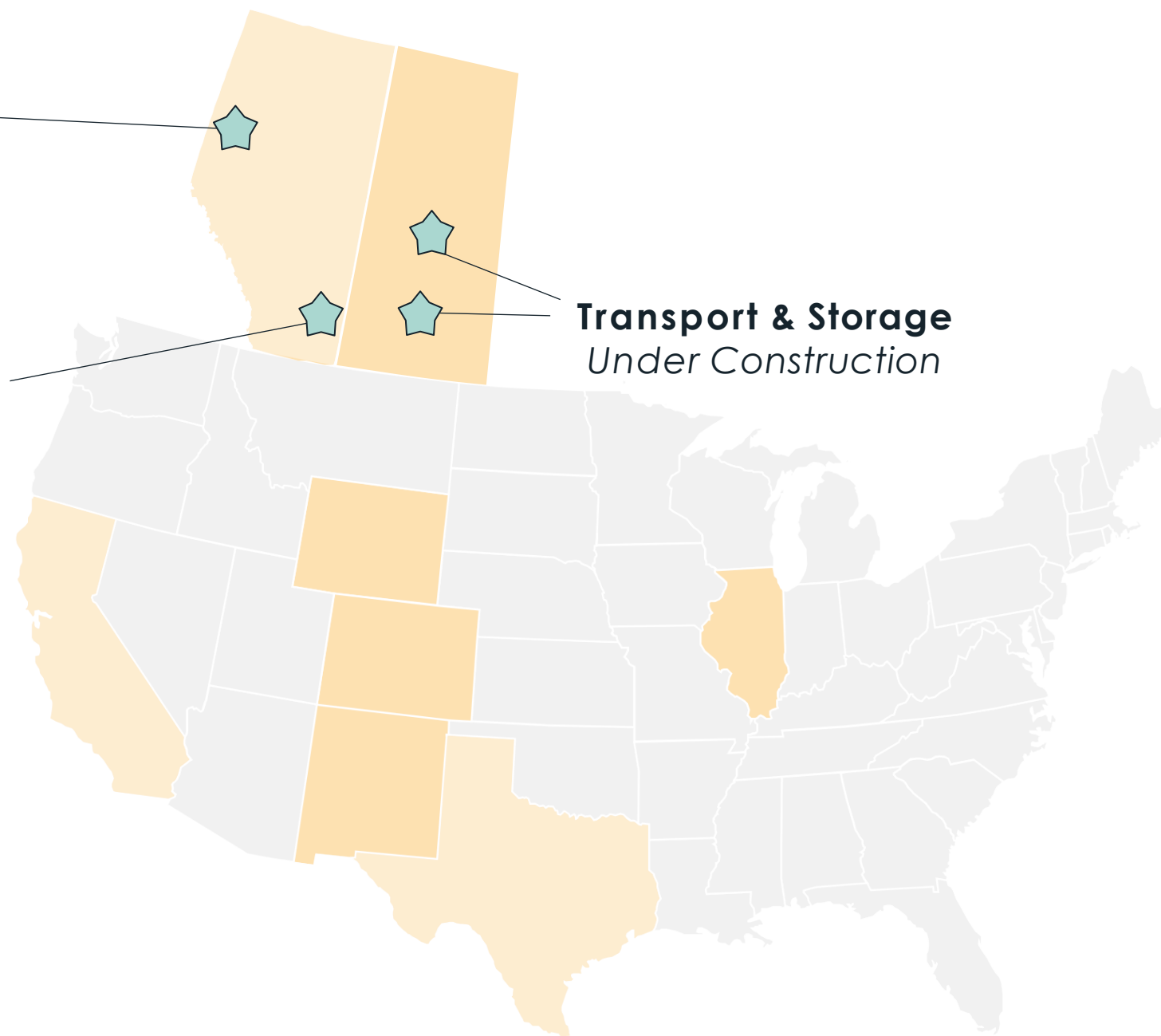


# ROBUST OPPORTUNITY SET

Build · Own · Operate & commercial value proposition

  
**CCS Facility**  
Operating

  
**Blue methanol  
(iCCS Boiler)**  
Pre-FEED



**Transport & Storage**  
Under Construction

## Partnership Suitability

Emitter · Policy · Subsurface

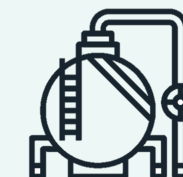
## Project Development / Scoping

### Post-Combustion

Thermal Oil  
Data Center  
Compression



Low CI Power  
Methanol  
Enhanced Oil  
Recovery



### Pre-Combustion/Industrial

Ethanol  
Fertilizer



Gas Processing  
Steam  
Methane  
Reforming



### Jurisdictions



# CLOSING REMARKS & Q&A





All dollars and currency references in this presentation are in Canadian dollars, unless otherwise indicated.

#### Forward Looking Information and Statements

The information in this presentation contains certain forward-looking information and forward-looking statements (collectively, "forward-looking statements") within the meaning of applicable securities laws relating to Entropy Inc.'s ("Entropy" or the "Corporation") plans and other aspects of its anticipated future operations, management focus, strategies, financial, operating results and business opportunities. These statements relate to future events or our future intentions or performance. All statements other than statements of historical fact may be forward-looking statements. These statements have been prepared by Management to provide an outlook of the Corporation's potential activities and results and may not be appropriate for other purposes. Forward-looking statements are often, but not always, identified by the use of words such as "seek", "anticipate", "plan", "continue", "estimate", "guidance", "demonstrate", "expect", "may", "can", "will", "project", "predict", "potential", "target", "objectives", "intend", "could", "might", "should", "believe", "would" and similar expressions and include statements relating to, among other things: Entropy's position, strategy, development, and future plans and the benefits to be derived therefrom; the Corporation's expectations generally and with respect to its project development; the opportunities provided by the deployment of CCS technology; the anticipated benefits provided by Entropy's CCS technology to its host facilities; the expectations that CCS is going to play an essential role in global decarbonization; anticipated global CCS capture rates; the anticipated on-stream deployment timeline of Entropy's CCS projects; expectations that the CCO structure effectively de-risks and accelerates private CCS investment by establishing carbon price certainty for Canadian projects; the anticipated benefits to be derived from the integration of multiple technologies including MCCSTM, iCCSTM, High Performance Solvent Family and Entropy23TM, Entropy Heat CaptureTM, RESTM, and EntropyIQTM; the anticipated capital cost savings to be derived from Entropy's iCCSTM technology compared to CCS retrofit; the anticipated results of Entropy's prototype iCCSTM unit installation; the anticipated benefits to be provided by the Corporation's Entropy23TM technology, including that it will reduce energy costs, operating costs and equipment capital requirements; the anticipated benefits to be derived from the EntropyIQTM technology; the anticipated benefits to be derived from the MCCSTM technology including equipment cost reduction, maximizing recovery efficiency and minimizing operating costs; the anticipated timing of when Glacier Phase 2 will be complete and capture from remaining compressors and natural gas turbine will be onstream; the anticipated rates at which CO2 is sequestered; the anticipated Glacier Phase 2 project highlights, project scope and reduction in Glacier Gas Facility emissions; the anticipated timing of completion of construction of the world's first natural gas power turbine with integrated CCS; the expectation that a Titan 130 Turbine will power Glacier Gas Plant and provide power/heat for the CCS process; the anticipated results in replacing existing generators with iCCS TurbineTM; the expectation that U.S. electricity demand will continue to increase and coal electricity contribution will decrease; the anticipated benefits to be derived from the Grande Prairie Net Zero Hub, the Bow Valley Carbon Hub, the Rolling Hills Hub; the Belle Plaine Hub and the North Battleford Hub; the anticipated benefits to be derived from the scale up of gas plants, thermal oil production and simple/combined cycle turbines; the anticipated rate of global scale projects being advanced; anticipated global commercial CCS projects and the anticipated timing thereof; anticipated growth in the CCS market and that growth projects will be available to Entropy; anticipated global carbon price benchmarks; expectations that increases in carbon prices in North America and Europe will continue over the next decade; government initiatives, targets and policies; and estimated capacity of certain of the Corporation's storage hubs. Entropy's actual decisions, activities, results, performance or achievement could differ materially from those expressed in, or implied by, such forward-looking statements and accordingly, no assurances can be given that any of the events anticipated by the forward-looking statements will transpire or occur or, if any of them do, what benefits that Entropy will derive from them.

With respect to the forward-looking statements contained in this presentation, Entropy has made a number of material assumptions regarding, but not limited to: conditions in general economic and financial markets; effects of regulation by governmental agencies; receipt of partner, regulatory and community approvals; current or, where applicable, assumed industry conditions, laws and regulations will continue in effect or as anticipated; current and future carbon prices and royalty regimes; the price of and market for carbon credits and offsets; availability of government initiatives to Entropy; future exchange rates; future interest rates; future inflation rates; future operating costs; availability of skilled labor; availability of equipment; the impact of increasing competition; the impact of improving technologies; that Entropy's focus on scale and capital efficiency will allow it to make an impact on global carbon emissions; the capital efficiency for projects; the anticipated amount of carbon dioxide captured, stored and offset; the commercial terms to be negotiated for projects; that Entropy will have the ability to develop projects in the manner currently contemplated; the timing and amount of capital cost; that the estimates of Entropy's cost structure and the assumptions related thereto are accurate; that Entropy's conduct and results of operations will be consistent with its expectations; the impact of increasing competition; the price of and market for carbon credits and offsets; that Entropy will have sufficient cash flow, working capital, debt or equity sources or other financial resources required, at a cost of capital as contemplated, to fund its capital and operating expenditures and requirements as needed; that Entropy's conduct and results of operations will be consistent with its expectations; that Entropy will have the ability to develop projects in the manner currently contemplated; current or, where applicable, assumed industry conditions, laws and regulations will continue in effect or as anticipated; the impact of improving technologies; that Entropy will continue to have a right of access to an existing sequestration facility to complete its first full-scale commercial CCS project; that the estimates of Entropy's cost structure and the assumptions related thereto are accurate in all material respects; and that the demand for power from an AI and data-centre boom will result in an increase carbon intensity and demand for clean electricity.

# ADVISORY (continued)



These statements involve substantial known and unknown risks and uncertainties, certain of which are beyond Entropy's control, including, but not limited to: conditions in general economic and financial markets; effects of regulation by governmental agencies; the price of and market for carbon credits and offsets; current and future carbon prices and royalty regimes; future interest rates; future exchange rates; future inflation rates; future operating costs; current or, where applicable, proposed assumed industry conditions, laws and regulations will continue in effect or as anticipated; Entropy's expectations generally and with respect to its project development and future plans are different than anticipated; that Entropy will have the ability to develop and deploy the projects in the manner currently contemplated; that Entropy will have sufficient cash flow, working capital, debt or equity sources or other financial resources required to fund its capital and operating expenditures and requirements as needed; the risk that the CCO structure may not de-risk and accelerate private CCS investment by establishing carbon price certainty for Canadian projects; availability of skilled labor; availability of equipment; the impact of increasing competition; timing and amount of capital cost; the impact of improving technologies; the risk that the anticipated growth in the CCS market may not occur; the risk that growth projects may not be available to Entropy; the risk that Entropy may not make an impact on global carbon emissions; the risk that the integration and performance of Entropy's MCCSTM technology, Entropy Heat Capture technology, iCCSTM technology, RESTM technology, High Performance Solvent Family technologies including Entropy23™ solvent, and EntropyIQ™ technology may be different than anticipated; the risk that Entropy may not obtain patents for its patent pending and other technology; the risk that Glacier Phase 2 may not be completed or come onstream when anticipated, or at all; the risk that Glacier Phase 2 project highlights, project scope and reduction in Glacier Gas Facility emissions may not be as anticipated; the risk that a Titan 130 Turbine may not power the Glacier Gas Plant and provide power/heat for the CSS process as expected, or at all; the risk that results in replacing existing generators with iCCS Turbine™ may not be as anticipated; the risk that Entropy's existing projects may not lead to new commercial projects; the risk that each project's emissions, carbon capture efficiency and overall reduction of original emissions may be lower than anticipated; the risk that the amount of carbon dioxide captured, stored and offset may be less than anticipated; the risk that Entropy may not be positioned to realize upside on future increases in carbon prices; the risk that the demand for CCS projects may not increase; the risk that the commercial terms to be negotiated for Entropy's projects may be less favorable to Entropy than anticipated; the risk that the Corporation's storage hubs may have less capacity than anticipated; the risk that Entropy's strategic storage hubs may not provide Entropy with the benefits anticipated; the risk that global CCS rates may be less than anticipated; the risk that there may be less global commercial CCS projects than anticipated; and the risk that U.S. greenhouse gas emissions may be greater than anticipated.

Management has included the summary of assumptions and risks related to forward-looking information in order to provide shareholders with a more complete perspective on Entropy's future operations and such information may not be appropriate for other purposes. Entropy's actual results, performance or achievement could differ materially from those expressed in, or implied by, these forward-looking statements and, accordingly, no assurance can be given that any of the events anticipated by the forward-looking statements will transpire or occur, or if any of them do so, what benefits that Entropy will derive therefrom. Readers are cautioned that the foregoing lists of factors are not exhaustive. The Corporation and Management believe that the statements have been prepared on a reasonable basis, reflecting Management's best estimates and judgments. However, because this information is highly subjective and subject to numerous risks including the risks discussed above, it should not be relied on as necessarily indicative of future results. These forward-looking statements are made as of the date of this presentation and Entropy disclaims any intent or obligation to update publicly any forward-looking statements, whether as a result of new information, future events or results or otherwise, other than as required by applicable securities laws.

This presentation contains information that may be considered a financial outlook under applicable securities laws about Entropy's potential financial position, including, but not limited to, anticipated global carbon price benchmarks; and the anticipated capital cost savings to be derived from Entropy's iCCSTM technology compared to CCS retrofit, all of which are subject to numerous assumptions, risk factors, limitations and qualifications, including those set forth in the above paragraphs. The actual results of operations of Entropy and the resulting financial results will vary from the amounts set forth in this presentation and such variations may be material. This information has been provided for illustration only and with respect to future periods are based on budgets and forecasts that are speculative and are subject to a variety of contingencies and may not be appropriate for other purposes. Accordingly, these estimates are not to be relied upon as indicative of future results. Except as required by applicable securities laws, Entropy does not undertake any obligation to update such financial outlook. The financial outlook contained in this presentation was made as of the date of this presentation and was provided for the purpose of providing further information about Entropy's potential future business operations. Readers are cautioned that the financial outlook contained in this presentation is not conclusive and is subject to change.



# ADVISORY (continued)



## Market, Independent Third Party and Industry Data

Certain market, independent third party and industry data contained in this presentation is based upon information from government or other independent industry publications and reports or based on estimates derived from such publications and reports. Government and industry publications and reports generally indicate that they have obtained their information from sources believed to be reliable, but none of Entropy or its affiliates have conducted their own independent verification of such information. This presentation also includes certain data derived from independent third parties, including, but not limited to, global CCS and emissions statistics and saline aquifer data; the world map of active commercial CCS projects; the Western Canadian map of industrial emitters by sector; and future global carbon price benchmarks. While Entropy believes this data to be reliable, market and industry data is subject to variations and cannot be verified with complete certainty due to limits on the availability and reliability of raw data, the voluntary nature of the data gathering process and other limitations and uncertainties inherent in any statistical survey. None of Entropy or its affiliates have independently verified any of the data from independent third-party sources referred to in this presentation or ascertained the underlying assumptions relied upon by such sources.

## Information Regarding Public Issuer Counterparties

Certain information contained in this presentation relating to the Corporation's public issuer counterparties and the nature of their respective businesses is taken from and based solely upon information published by such issuers. None of Entropy or its affiliates have independently verified the accuracy or completeness of any such information.

## No Implied Obligation or Warranty

Entropy makes no representation or warranty of any kind, express or implied, in respect of the information contained in this presentation, including correctness, accuracy, completeness or suitability for any particular purpose, and the information provided in this presentation is provided strictly on an "as is" basis. Except as required by applicable securities laws, Entropy undertakes no obligation to update such information. The information provided in this presentation was made as of the date of this presentation and was provided for the purpose of providing further information about the Corporation's anticipated future business operations. Readers are cautioned that the information contained in this presentation should not be used for purposes other than for which it is disclosed herein.

## Specified Financial Measures

Entropy discloses several financial and performance measures that do not have any standardized meaning prescribed under International Financial Reporting Standards ("IFRS" or "GAAP"). These specified financial measures should not be considered to be alternatives to, or more meaningful than measures determined in accordance with GAAP including net income, comprehensive income, cash provided by operating activities, or cash used in investing activities. Management believes that these measures provide an indication of the potential results that could be generated by the Corporation's principal business activities and provides useful supplemental information for analysis of the Corporation's potential operating performance and liquidity. Entropy's method of calculating these measures may differ from other companies, and accordingly, they may not be comparable to similar measures used by other companies.

## Non-GAAP Financial Measures

Capital cost is a non-GAAP financial measure that includes expenditures to construct carbon capture, compression, transportation, and storage facilities necessary for a project, less cash receipts on government grants and incentives. Management considers this measure reflective of actual capital activity as it excludes changes in working capital related to other periods.

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# FROM POLICY TO PROSPERITY: STATES DRIVING CCS DEPLOYMENT

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**Errol Pinto**

Technical Regional  
Manager, Americas  
Global CCS Institute  
[MODERATOR]



**Matthew Botill**

CALIFORNIA  
Division Chief  
California Air Resources  
Board (CARB)



**Dustin Davidson**

LOUISIANA  
Secretary  
Louisiana DNR



**Ruarri Day-Stirrat**

OREGON  
Executive Director  
State Geologist  
Oregon DOGAMI



**Lily Barkau**

WYOMING  
Groundwater Section  
Manager  
Water Quality Division



# California's Carbon Capture, Removal, Utilization, and Storage Program

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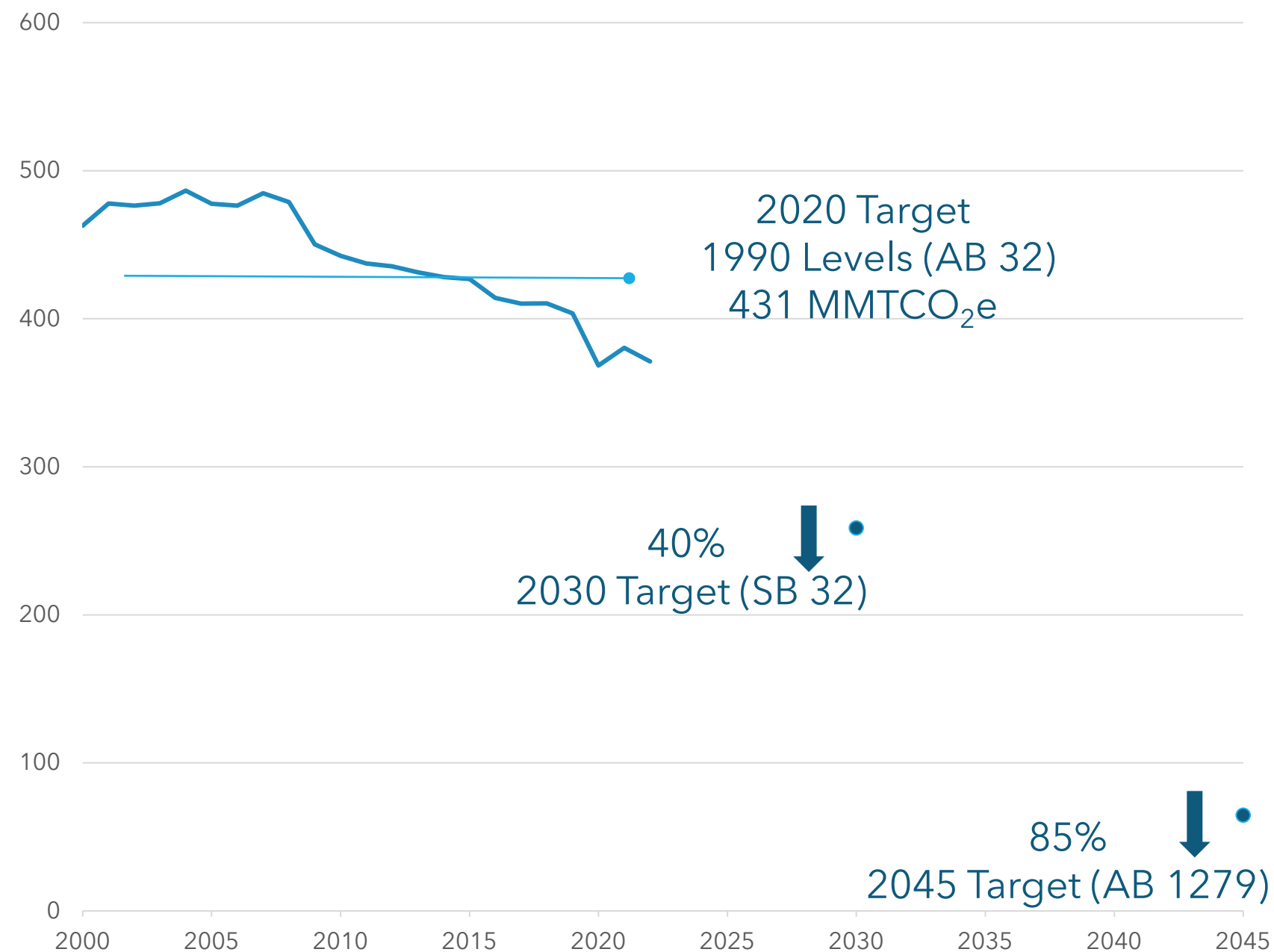


Matt Botill Division Chief  
Industrial Strategies Division

# GHG Emissions Reduction Targets

## Achieved AB 32 target in 2014 – Portfolio of Policies

AB 32 GHG Inventory Sector Emissions  
(MMTCO<sub>2</sub>e/year)



ACHIEVING  
**CARBON**  
NEUTRALITY  
BY **2045**

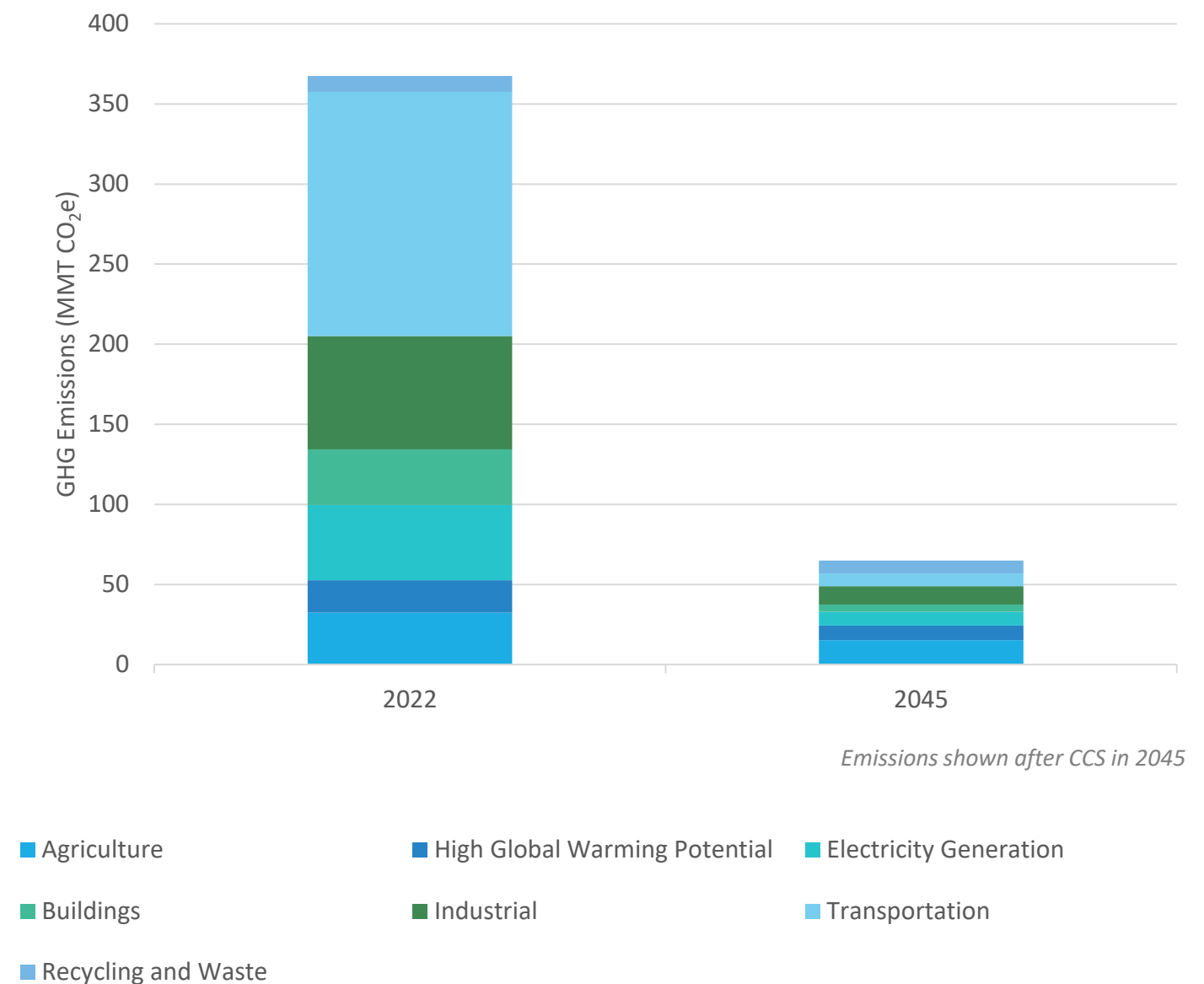
GHGs included in statute: carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulfur hexafluoride (SF<sub>6</sub>), nitrogen trifluoride (NF<sub>3</sub>).



# Anthropogenic GHGs

## Target 2045: 85% Reduction below 1990

- Emissions remain even after significant GHG emission reductions
- Need carbon dioxide removal to compensate for residual emissions to achieve carbon neutrality
- CA Legislation on CCUS/CDR:
  - AB 1279 - Carbon Neutrality and need for CCUS/CDR
  - SB 905 - CCUS Regulations
  - SB 614 - Intrastate CO<sub>2</sub> pipelines



# Overview of CARB SB 905 Responsibilities

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- Establish a Carbon Capture, Removal, Utilization, and Storage (CCUS) Program
- Adopt protocols to support additional CCUS and CDR approaches
- Adopt CCUS/CDR regulations, including for a voluntary-use unified permit application, financial risk management, and monitoring requirements for project operators
- Support transparency, via a public database of projects and public reporting





# Update on CARB's CCUS Program

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- July 2025 - CARB received full permanent staffing for SB 905 positions
- August 2025 - Released pre-rulemaking SB 905 public solicitation
- October 2025 - Published informational list of projects
- Staff prioritizing implementation of:
  - Information collection to support regulatory development
  - Contract work to conduct CCUS/CDR technology reviews
  - Contract work to collect CCUS/CDR permit data requirements
  - State of California control-agency approvals for the permit portal IT project

# SB 905 Public Solicitation Response

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- Published public solicitation for information from Aug-Oct 2025
- Received 61 responses
- Questions posed regarding program definitions, monitoring requirements, strategies to minimize local impacts, and state actions to scale deployment

## **Themes of Responses:**

- Overall Support for program
- Include utilization and storage approaches in rulemaking
- Important to have rigorous monitoring and strategies to reduce potential risks
- Importance of nature based strategies for carbon removal
- Need for community protections and benefits



# CCUS and CDR List

Project Name	Operator	County/Tribe	State	Type	Applied for CARB LCFS Protocol Certification
Farley Nuclear DAC Project	Battelle, AirCapture LLC, Southern Co, Carbonvert	Houston	AL	Direct Air Capture	
Longleaf CCS Hub	Longleaf CCS, LLC	Mobile	AL	CO <sub>2</sub> Transport / Storage	
GE Gas Power CCUS (Barry Generating Plant)	GE, Southern Company, Linde, BASF, Kiewit	Mobile	AL	Power Generation - Natural Gas	
Timberland Sequestration	Blue Sky Infrastructure, Timberlands Sequestration, LLC	Monroe	AL	CO <sub>2</sub> Transport / Storage	
OASIS Shelby County	Southern States Energy Board	Shelby	AL	CO <sub>2</sub> Transport / Storage	
Pine Hills Sequestration Hub	Reliant Southwest Alabama Storage, LLC	Covington	AL	CO <sub>2</sub> Transport / Storage	
Gulf Coast Sequestration Hub	Denbury Carbon Solutions, Natural Resource Partners	Mobile	AL	CO <sub>2</sub> Transport / Storage	
Project Blue	Lapis Energy (AR Development) LP, LSB Industries	Union	AR	Hydrogen / Ammonia / Fertilizer	
Nimbus 1	Natural State Renewables Inc.	Ouachita	AR	Chemical / SAF	
Mission Creek Gas Plant	Standard Lithium, Aqualung, Mission Creek Resources	Columbia	AR	Oil and Gas	
Ash Grove Foreman Cement Plant CCS	Ash Grove/CRH, Southern States Energy Board	Little River	AR	Cement	
Southwest Regional Direct Air Capture Hub	Arizona Board of Regents on behalf of Arizona State University, Black & Veatch, Carbon Collect, CarbonCapture, Carbon Solutions, Proton Green, University of New Mexico, University of Utah, Tallgrass, and Arizona Geological Survey	Maricopa	AZ	Direct Air Capture	
Arbor Biomass Gasification Facility	Arbor	Placer	CA	Bioenergy / Ethanol	

- Nationwide list of projects
- Compiled from public sources
- Represents projects across all stages of planning, design, and deployment
- Provides information about projects that may provide valuable insight into how the technology is being developed and deployed
- 365 entries on the list

<https://ww2.arb.ca.gov/ccus-and-cdr-project-list>

## Next Steps on CARB's 905 Work

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- Release draft regulatory framework early next year and draft language next summer
- Supporting complementary legislation, like the new pipeline safety bill, and working with other agencies to streamline permitting
- Conduct additional future workshops on
- CCUS/CDR technology assessments
- Informal regulatory structure and regulatory concepts/timing

**Stay informed and access SB 905 program materials**

<https://ww2.arb.ca.gov/our-work/programs/carbon-sequestration-carbon-capture-removal-utilization-and-storage>



# Carbon Capture and Storage (CCS) in Louisiana

*The Role of the Department of Conservation and Energy (C&E)*



LOUISIANA DEPARTMENT OF  
**CONSERVATION AND ENERGY**

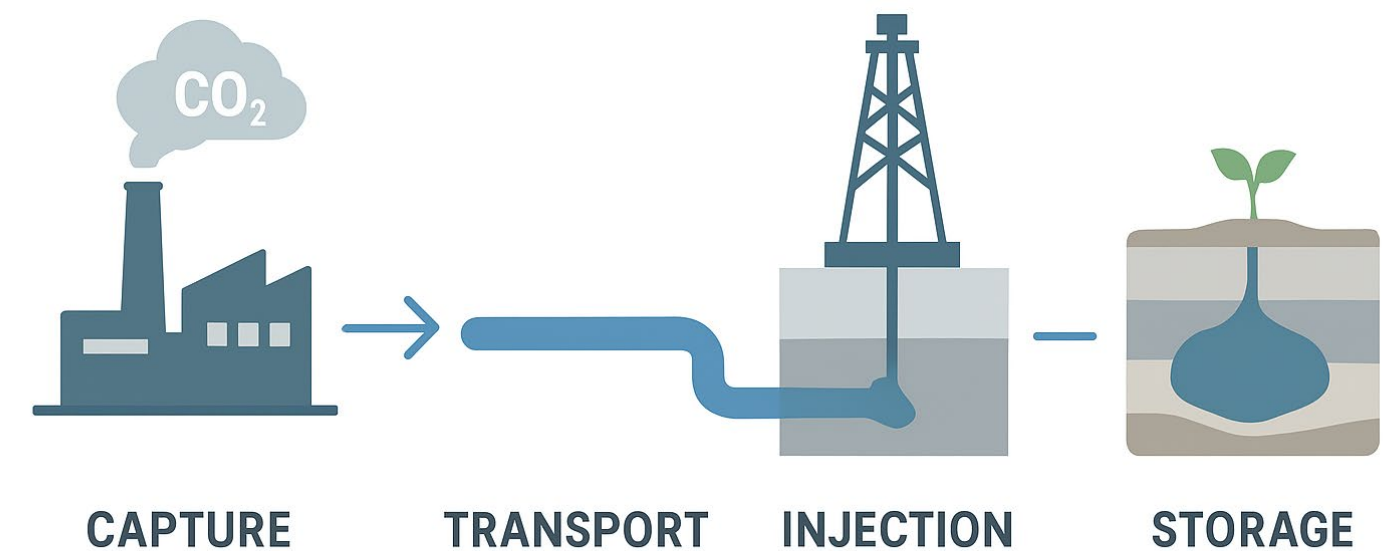


# Louisiana: A Leader in Economic Development and Environmental Stewardship



- Class VI primacy granted in 2024, allowing the state to regulate CO<sub>2</sub> storage wells directly.
- Deep, thick saline formations and depleted oil and gas reservoirs—perfect for securely storing CO<sub>2</sub>.
- Dense network of pipelines, refineries, and petrochemical plants along the Mississippi River and Gulf Coast.
- Robust framework ensures public safety, groundwater protection, and environmental integrity.
- Large volumes of CO<sub>2</sub>, creating both the source and storage opportunity locally.

## CARBON CAPTURE AND STORAGE (CCS)






# Department Guidance No. B-2025-01: Permit Application Reviews

- Issued pursuant to state authority (La. R.S. 36:354(A)(14) via Act 458 of 2025).
- Applies to all Class VI permit applications received by the department; sets application prioritization and resource allocation.
- Focus on geology, engineering, monitoring, well integrity, area of review, financial assurance, post-injection site care and long-term stewardship.
- Typical review target timeline ~2 years from submission to decision.
- Administered by the Louisiana Department of Conservation & Energy (or relevant state division) to support safe, efficient CCS development in Louisiana.



DEPARTMENT OF ENERGY AND NATURAL RESOURCES  
DEPARTMENT GUIDANCE No. B-2025-01

**FROM:** Tyler Gray, Secretary   
**DATE:** August 1, 2025  
**SUBJECT:** Department Guidance Class VI Permit Application Reviews  
DG-B-2025-01<sup>1</sup>

**I. Authority**

This guidance document is issued with consideration for authority granted in Act 458 of 2025 Regular Session, effective October 1, 2025. Although presently serving as guidance, this document may be converted into a directive order upon initiation by the Deputy Secretary, certification by Undersecretary, and issued pursuant to authority granted to the Secretary by La. R.S. 36:354(A)(14) (Act 458 of 2025, Regular Session), empowering the Secretary to establish immediate agency policy effective upon issuance.

**II. Purpose**

This Department Directive Order (DDO) is the first step in providing guidance in managing applications for Class VI wells under the Underground Injection Control (UIC) program, providing guidance for the permitting, construction, operation, and oversight of carbon capture and sequestration (CCS) projects. It aims to ensure compliance with state laws and regulations (exceeding the federal requirements), protect underground sources of drinking water (USDW), and maintain transparency for stakeholders. All CCS operators are put on notice that DENR will adhere to this guidance to ensure consistency in permitting standards statewide.

**III. Timeline for Review**

The following has been and will continue to be the expectations of the Department for reviewing and making final permit decisions.

Stage	Typical Duration (approx.)	Evidence
Administrative completeness review	1–3 months	LDENR ensures all required data are included in application and processes any confidentiality requests.
Technical review	≈ 18 months for a complete application;	LDENR’s FAQ notes that even a flawless Class VI application would take about 18 months from the

# Department Guidance No. B-2025-01-A: Community Engagement

- Issued under authority of La. R.S. 36:354(A)(14) via Act 458 of 2025.
- **Unsolicited major modifications will not be tolerated.**
- Establishes expectation that applicants are responsible for technical sufficiency and communication with public.
- Establishes community engagement plans, which may be required.
- Substantial consideration to local governments.

JEFF LANDRY  
GOVERNOR



DUSTIN H. DAVIDSON  
SECRETARY

## DEPARTMENT OF CONSERVATION AND ENERGY

### DEPARTMENT GUIDANCE NO. B-2025-01-A

FROM: Dustin Davidson, Secretary *DHD*  
DATE: October 13, 2025  
SUBJECT: Department Guidance Class VI Permit Application Reviews  
DG-B-2025-01-A<sup>1</sup>

#### I. Authority

This guidance document is issued with consideration for authority granted in Act 458 of 2025 Regular Session, effective October 1, 2025. Although presently serving as guidance, this document may be converted into a directive order upon initiation by the Deputy Secretary, certification by Undersecretary, and issued pursuant to authority granted to the Secretary by La. R.S. 36:354(A)(14) (Act 458 of 2025, Regular Session), empowering the Secretary to establish immediate agency policy effective upon issuance.

The department's memorandum of agreement (MOA) with EPA Region 6 governing LDENR's administration of its primacy program for Class VI wells requires that the State work within its authority to support communities near proposed Class VI projects through a variety of approaches including implementing an inclusive public participation process. This requirement is often met by applicants adopting a public engagement plan. In addition, Act 414 of the 2025 Regular Session, effective August 1, 2025, requires that LDENR give substantial consideration to local government comments on Class VI permit applications.

#### II. Purpose

The purpose of this guidance is to:

(A) Manage Staff Resources Effectively



# Executive Order JML 25-119

- Establish balance between economic growth, environmental stewardship, and community engagement.
- Allows C&E to re-establish review process under new context.
- Focus on reality, not theory.
- Pause on reviewing new permit applications



EXECUTIVE DEPARTMENT  
OFFICE OF THE GOVERNOR  
EXECUTIVE ORDER NUMBER JML 25-119

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## *CO<sub>2</sub> CAPTURE AND STORAGE LIMITS AND MORATORIUM*

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**WHEREAS**, on January 20, 2025, President Trump signed Executive Order 14154, titled "Unleashing American Energy," which directs all agencies to review regulations and propose deregulation through efficient permitting, specifically removing the social costs of CO<sub>2</sub> from calculations in any federal permitting or regulatory decision;

**WHEREAS**, on February 14, 2025, President Trump established the National Energy Dominance Council, through Executive Order 14213, finding it necessary to expand all forms of reliable and affordable energy production to drive down inflation, grow the economy, create good-paying jobs, reestablish American leadership in manufacturing, lead the world in artificial intelligence, and restore peace through strength by wielding commercial and diplomatic levers to end wars across the world;

**WHEREAS**, on April 8, 2025, President Trump signed Executive Order 14261, to reinvigorate American's clean coal industry and make it a national policy and priority to support "the domestic coal industry by removing Federal regulatory barriers that undermine coal production, encouraging the utilization of coal to meet growing domestic energy demands, increasing American coal exports, and ensuring that federal policy does not discriminate against coal production or coal-fired electricity generation;"

**WHEREAS**, President Trump continues to champion energy innovation by advancing technologies such as clean coal and CO<sub>2</sub> capture and storage, in order to secure a more sustainable, reliable, and prosperous energy future;

**WHEREAS**, President Trump has identified dangerous state and local energy policies as direct threats to the nation's domestic energy supply, warning that such actions jeopardize "our Nation's core national defense and security needs, and devastate the prosperity of not only local residents but the entire United States population;"

# Questions?

**Louisiana Department of Conservation and Energy**

**617 North Third Street**

**LaSalle Building**

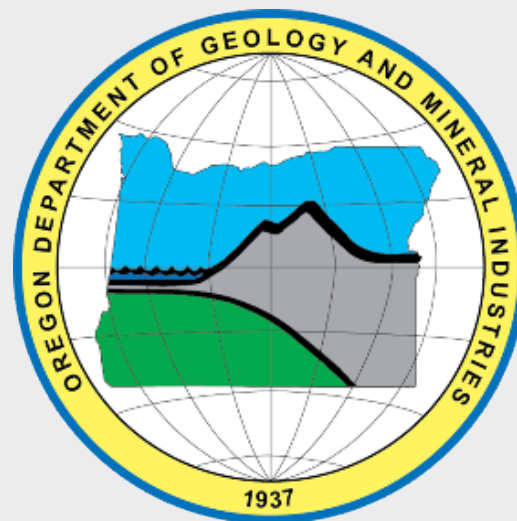
**Baton Rouge, LA 70802**

**Phone: (225) 342-0510**

**Email: [dnrinfo@la.gov](mailto:dnrinfo@la.gov)**





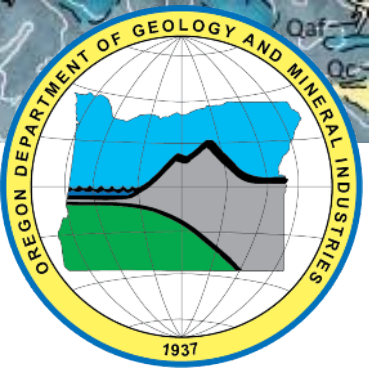


# Geologic Carbon Sequestration in Oregon

Oregon Dept. of Geology and Mineral Industries &  
Department of State Lands

Ruarri J. Day-Stirrat Ph.D.  
Oregon State Geologist





# State of Oregon Opportunities

- Governor Kotek's Executive Order 25-26
- State of Oregon decarbonization
  - Treasury decarbonization
- Economic Development
  - Non-agricultural

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**News** | Carbon Dioxide | Greenhouse Gas Emissions | Greenhouse Gases | Climate Char

## Oregon's Volcanic Rocks Could Unlock Major Carbon Storage Potential

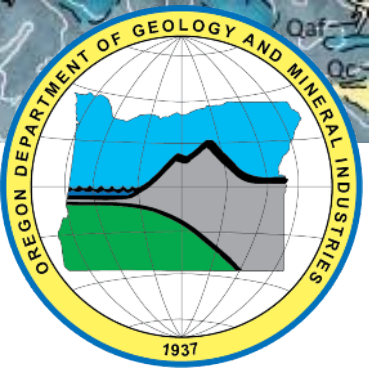
Published Nov 21, 2024 at 12:16 PM EST



By **Tom Howarth**  
Science Reporter (Nature)

FOLLOW





# Geologic Carbon Sequestration in Oregon – *Project Goals (0-3 years)*

Initial community  
and Tribal  
engagement

Geologic modeling and  
installation of research  
well on DSL managed land

Decision on regulatory  
structure



Community  
Engagement

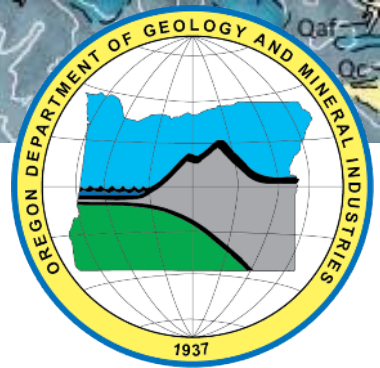


Technical  
Feasibility

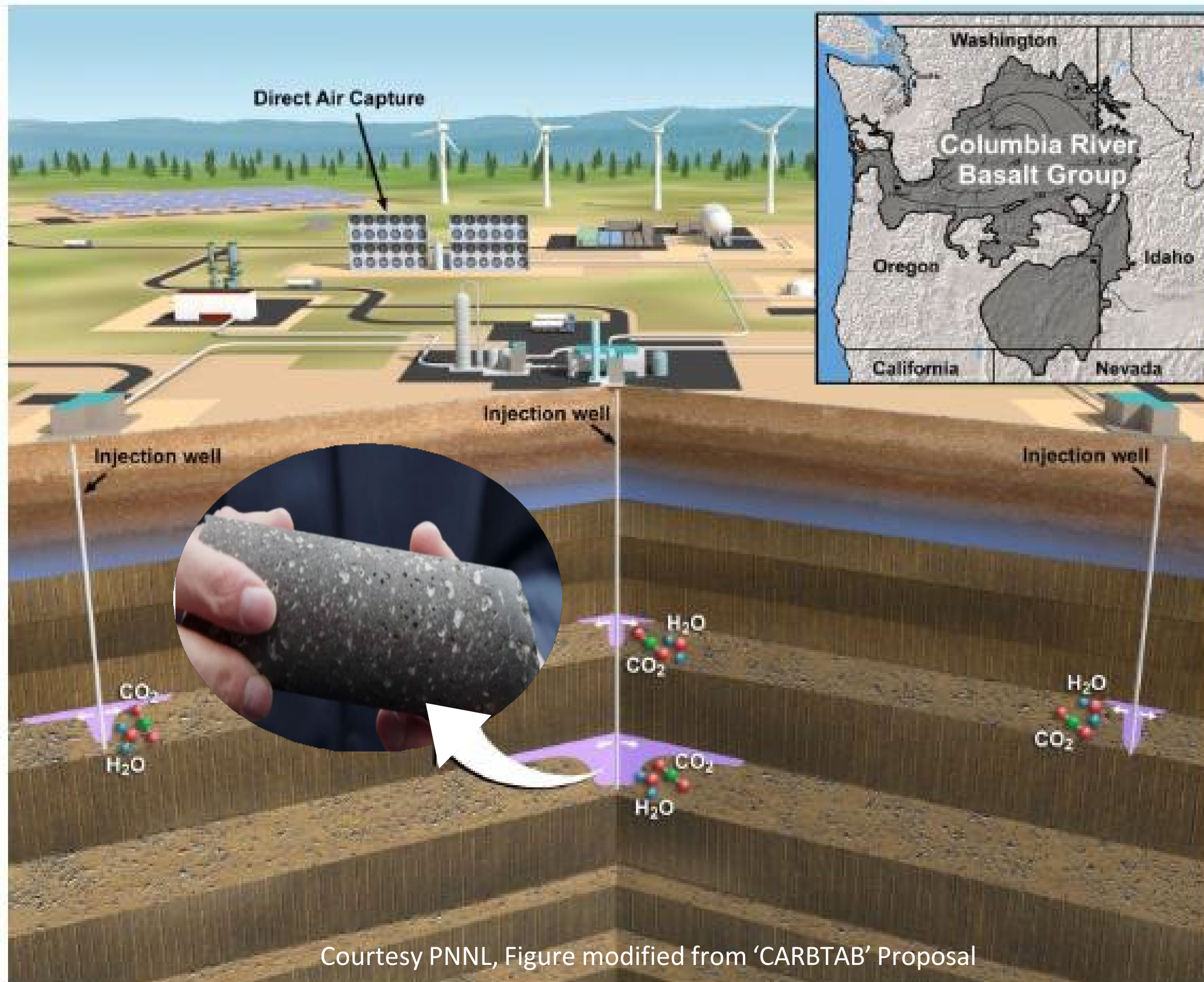


Regulatory  
Structure





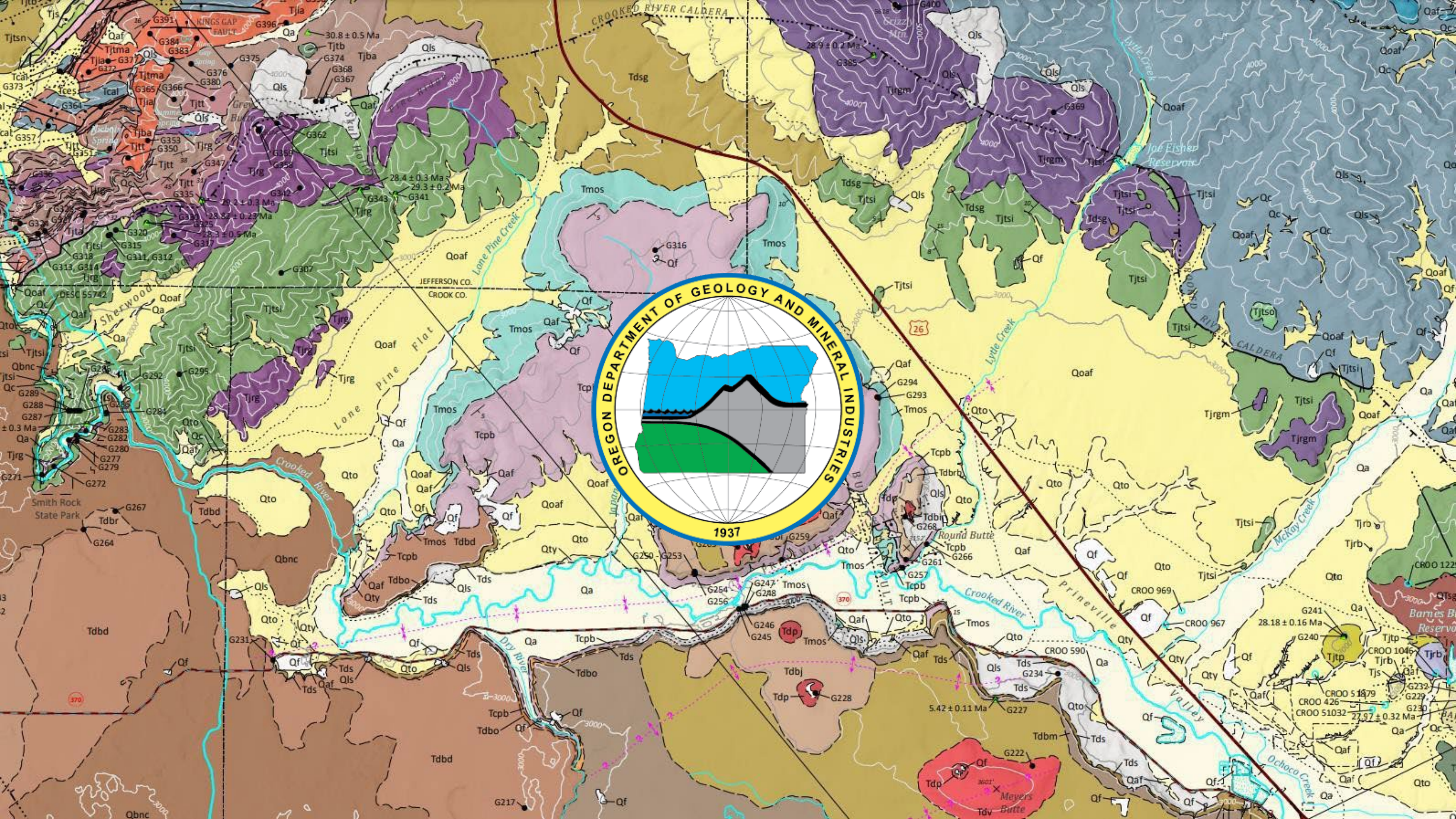
## CO<sub>2</sub> Storage in Columbia River Basalt



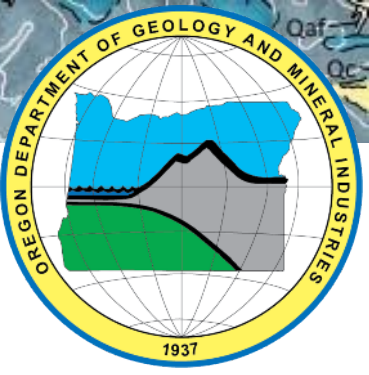
Courtesy PNNL, Figure modified from 'CARBTAB' Proposal



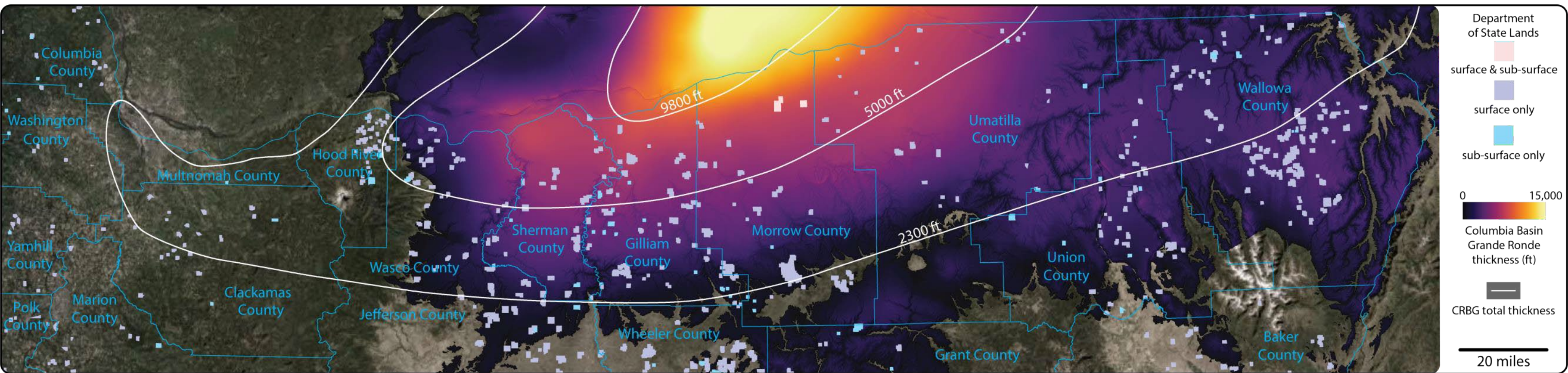








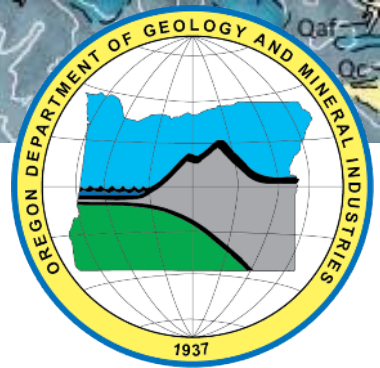
# Potential for Geologic Carbon Sequestration in Oregon



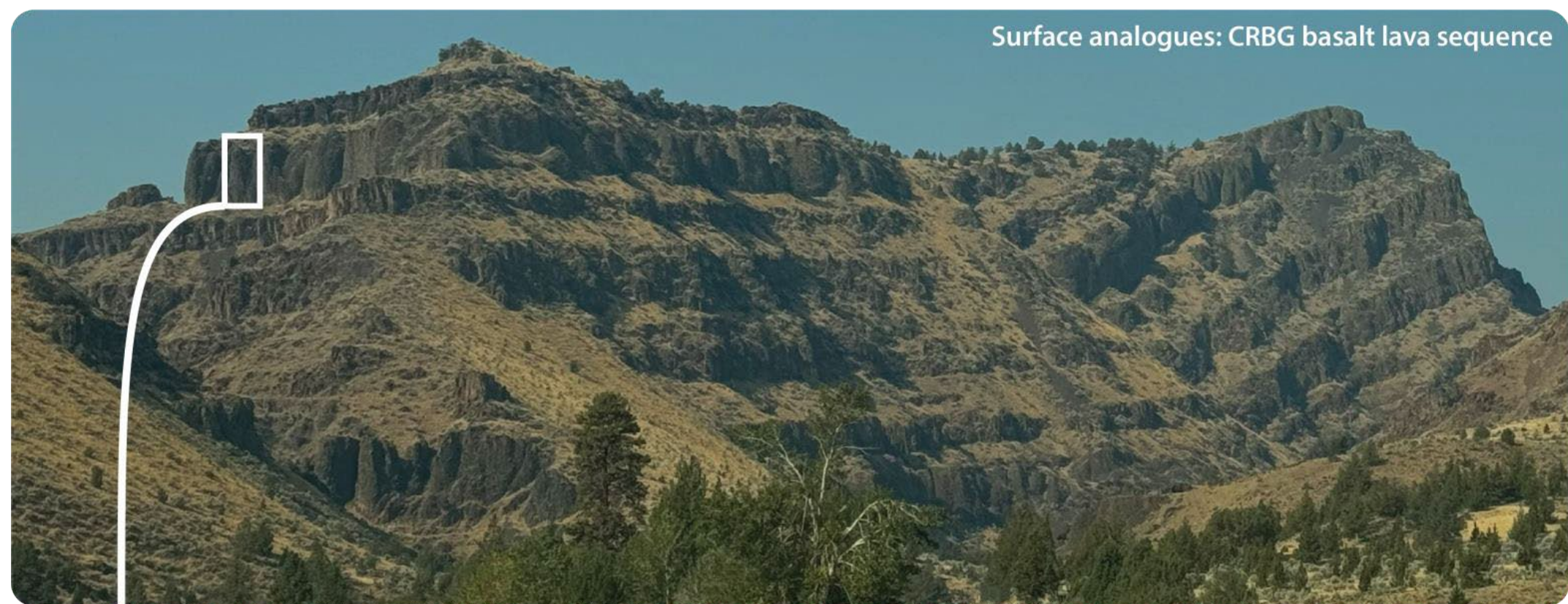
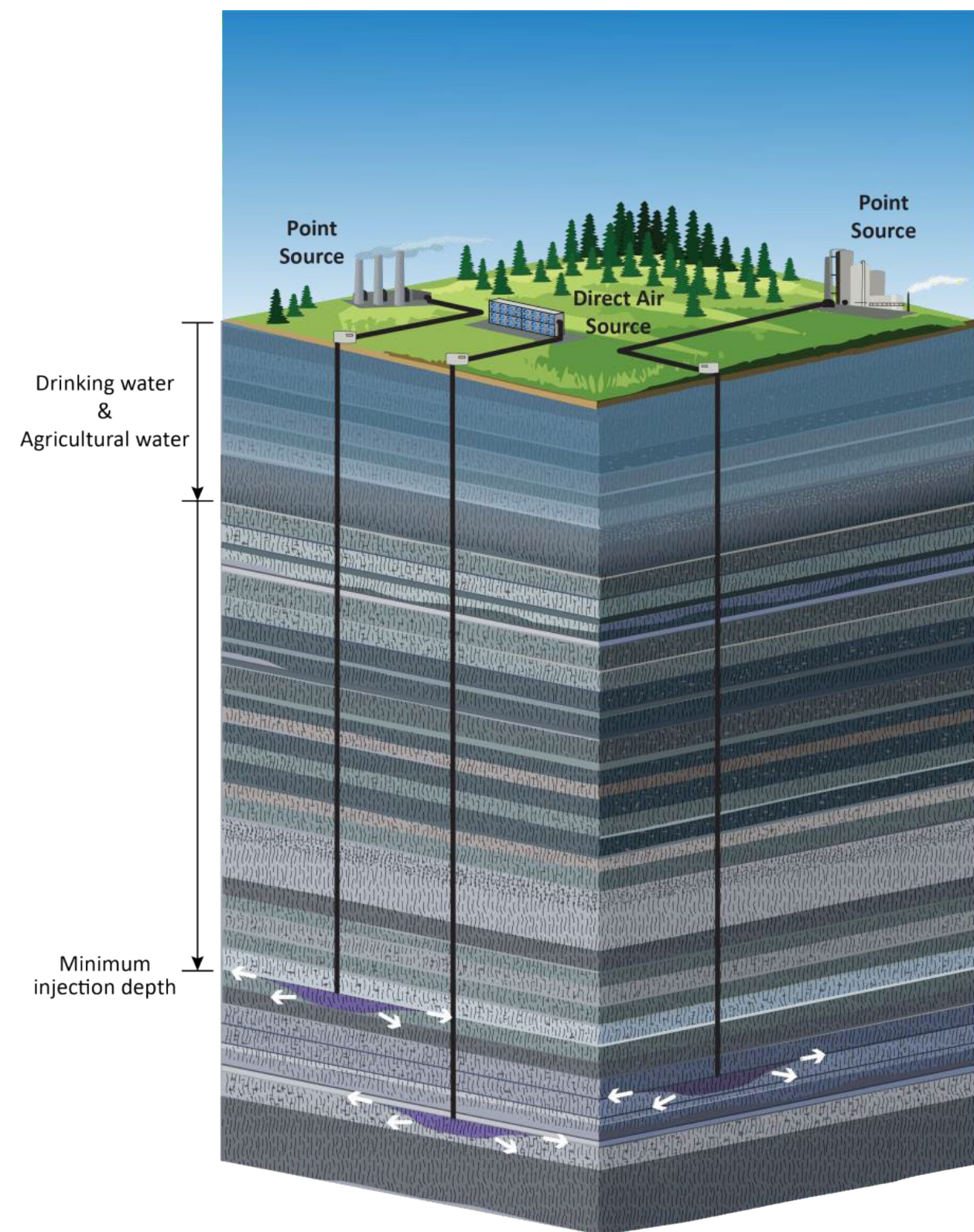
Modeled thickness of the Columbia River Basalt across the Columbia Plateau, basalt thickness of <2,600 ft

**An important step is to understand the subsurface geology**

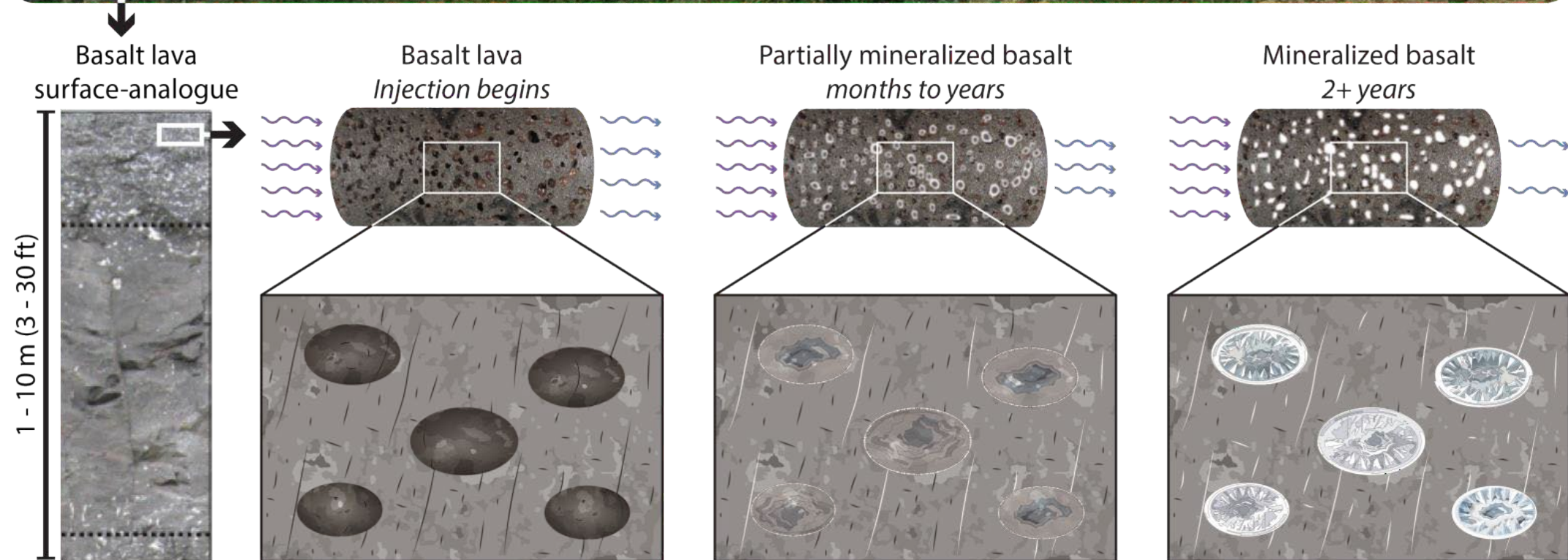




# Potential for Geologic Carbon Sequestration in Oregon



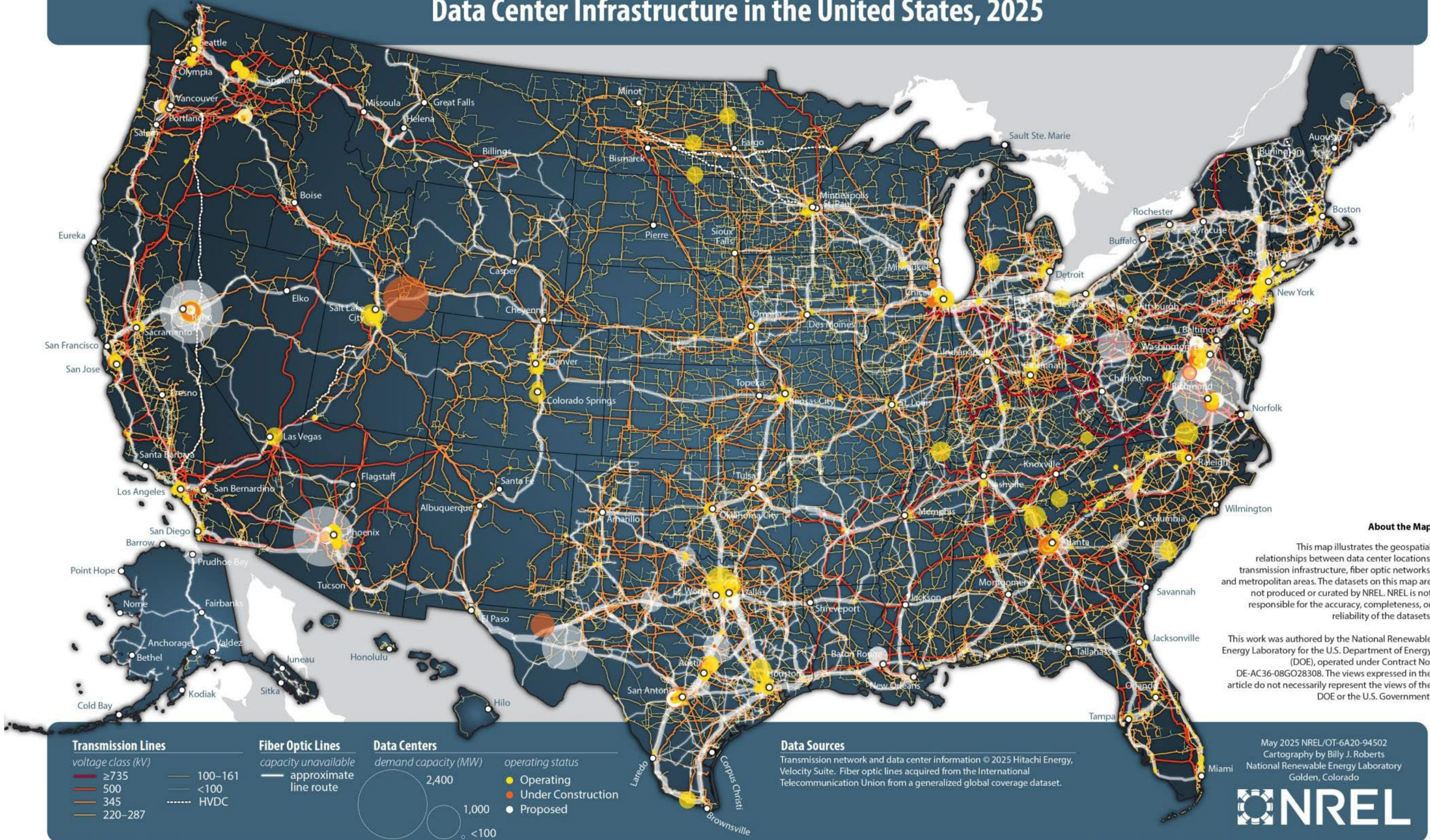
Surface analogues: CRBG basalt lava sequence







# Data Center Infrastructure in the United States, 2025



### About the Map

This map illustrates the geospatial relationships between data center locations, transmission infrastructure, fiber optic networks, and metropolitan areas. The datasets on this map are not produced or curated by NREL. NREL is not responsible for the accuracy, completeness, or reliability of the datasets.

This work was authored by the National Renewable Energy Laboratory for the U.S. Department of Energy (DOE), operated under Contract No. DE-AC36-08GO28308. The views expressed in the article do not necessarily represent the views of the DOE or the U.S. Government.

**Transmission Lines**  
voltage class (kV)  
— ≥735  
— 500  
— 345  
— 220–287  
— 100–161  
— <100  
— HVDC

**Fiber Optic Lines**  
capacity unavailable  
— approximate line route

**Data Centers**  
demand capacity (MW)  
○ 2,400  
○ 1,000  
○ <100

**operating status**  
● Operating  
● Under Construction  
● Proposed

**Data Sources**  
Transmission network and data center information © 2025 Hitachi Energy, Velocity Suite. Fiber optic lines acquired from the International Telecommunication Union from a generalized global coverage dataset.



# FROM POLICY TO PROSPERITY: STATES DRIVING CCS DEPLOYMENT - WYOMING

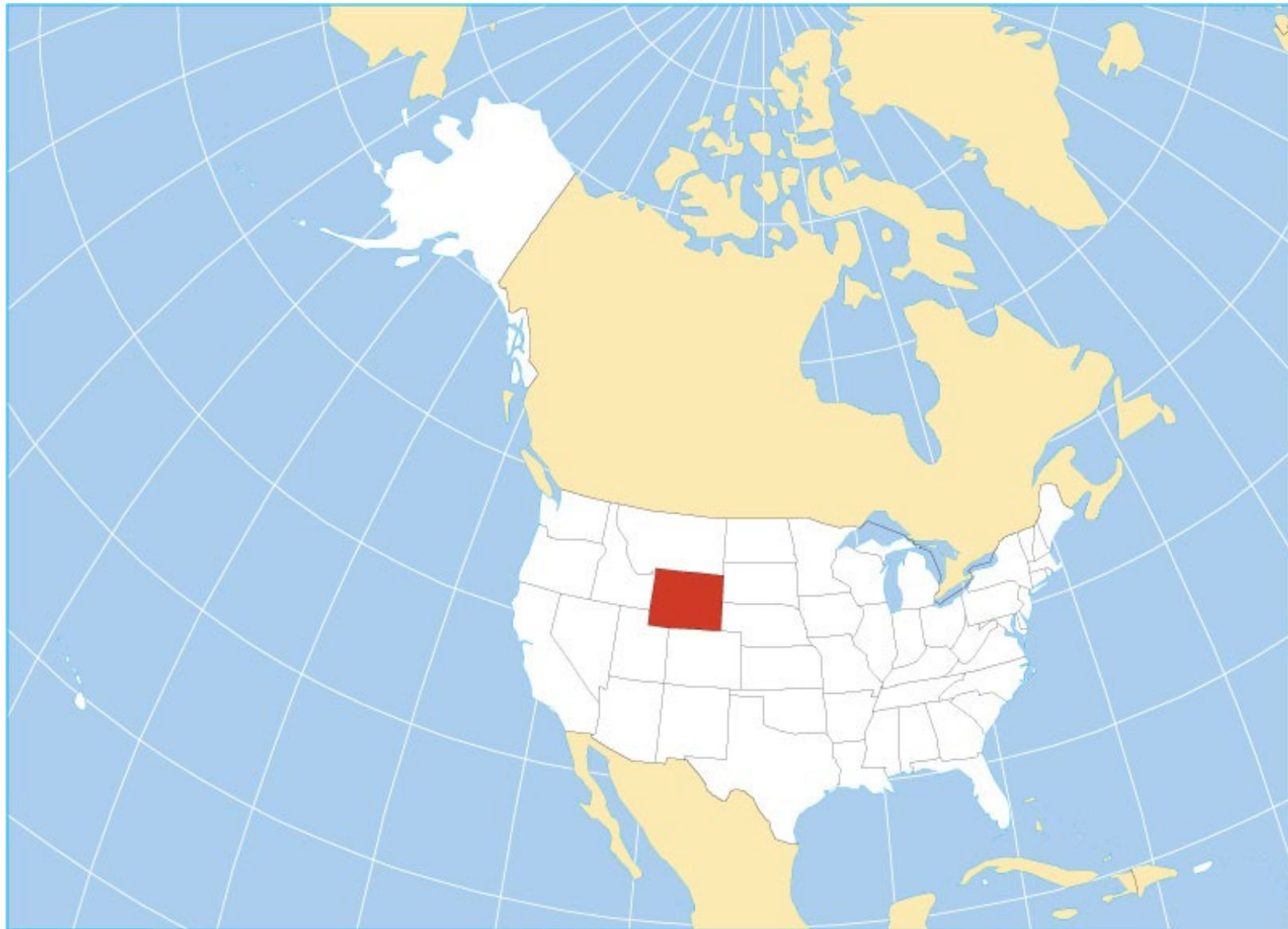
2025 AMERICAS MEMBER MEETING

Global CCS Institute

November 4, 2025

Presented by: Lily R. Barkau, P.G., Water Quality Division, Groundwater Section  
Manager

# Overview



- Wyoming Carbon Sequestration History and Regulations
- Project Updates
- Lessons Learned



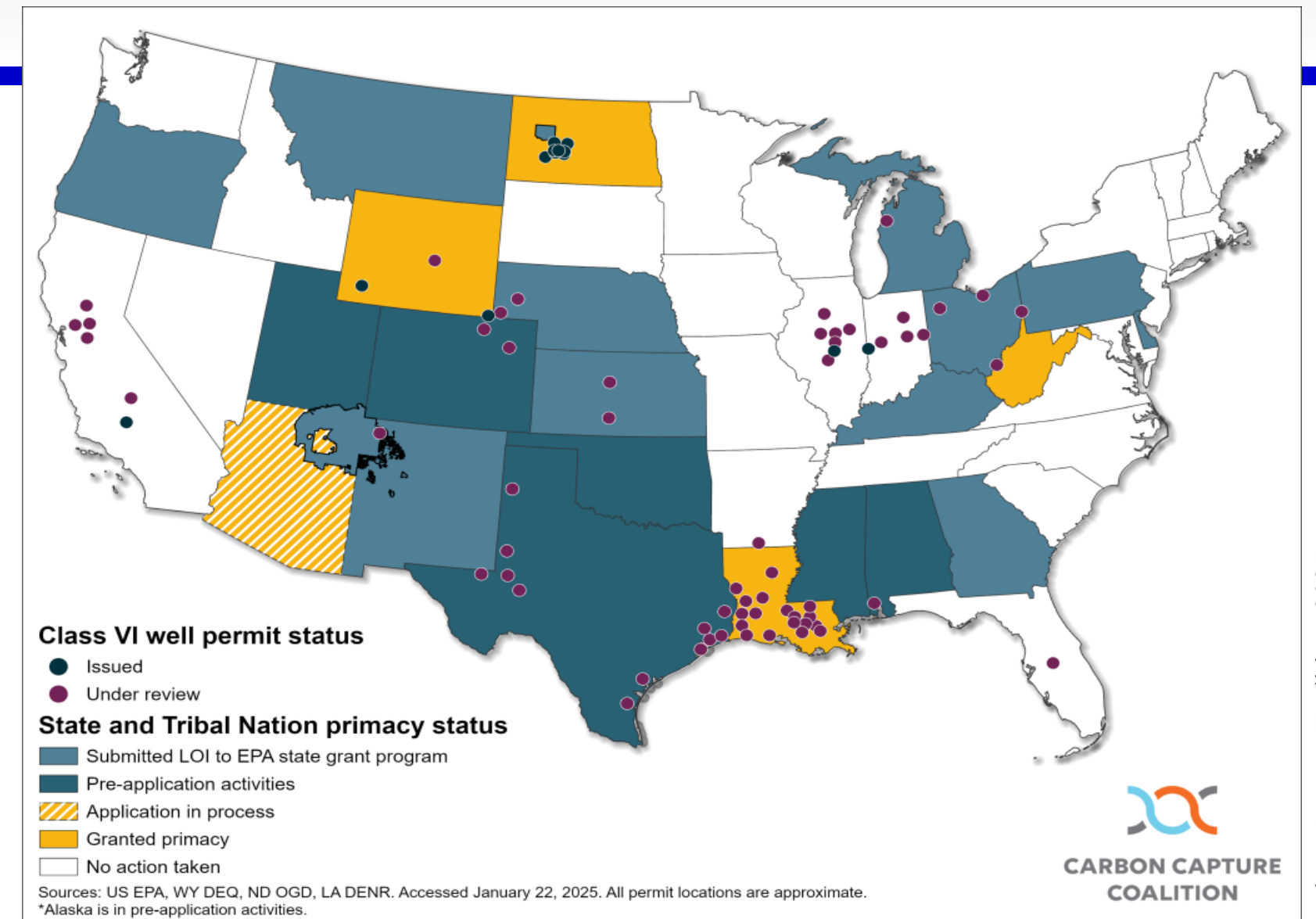
# Wyoming's Geologic Sequestration History

- 2007 – Carbon Sequestration Working Group
- 2008 – 2023 Statutes and regulations in place for
  - Permitting
  - Unitization
  - Pore space
  - Title of CO<sub>2</sub>
  - Long-term stewardship
  - Transfer of liability
- The Federal UIC program does not speak to unitization, pore space, the title of CO<sub>2</sub>, long-term stewardship, and liability.



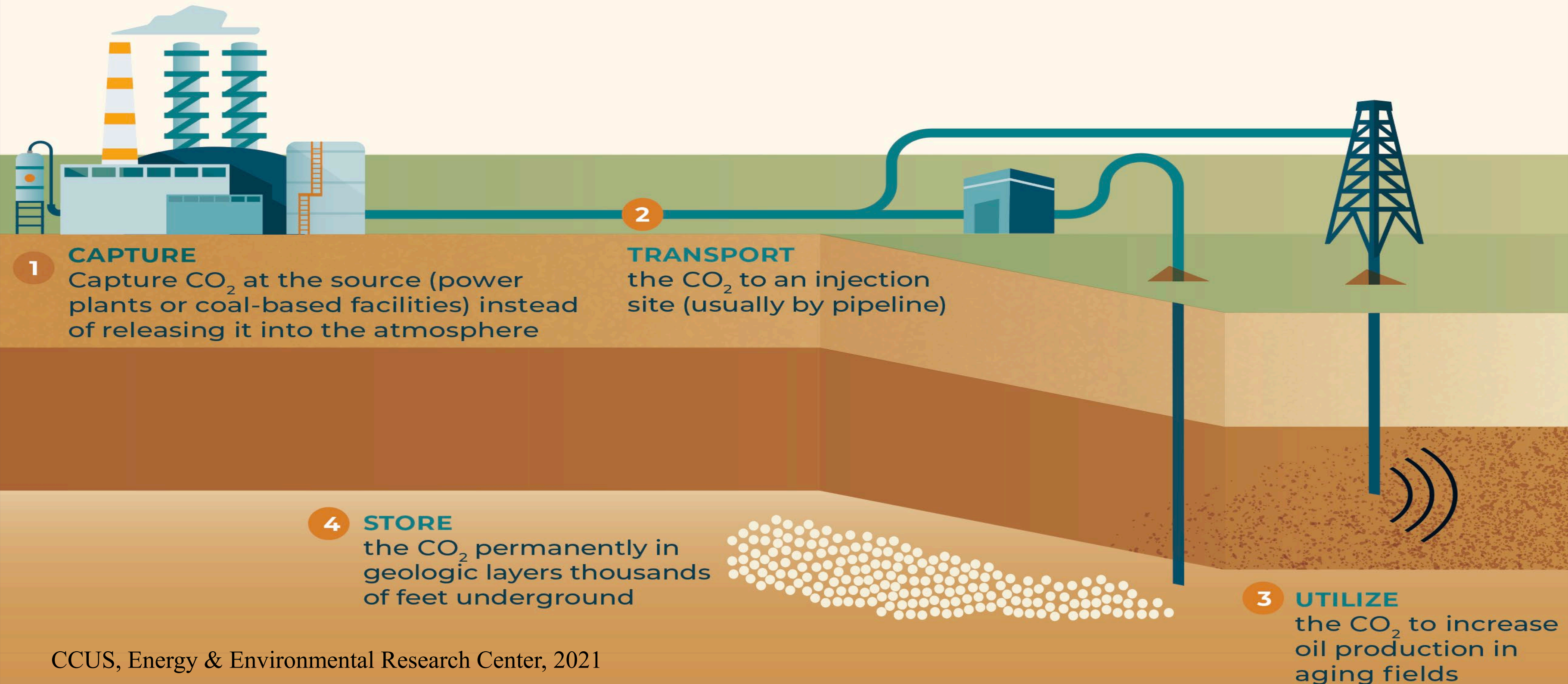
# EPA UIC Program and State Primacy

- Section 1421 of the Safe Drinking Water Act (SDWA) directs US EPA to develop UIC program requirements that protect underground sources of drinking water.
- Primacy, refers to a state, territory, or tribal responsibility associated with implementing US EPA-approved UIC programs.
- Currently 34 states have primacy over certain classes of wells of the UIC program.
- Wyoming received primacy of UIC Class I through V wells in 1983.
- Primacy of UIC Class VI wells was issued in September 2020.
- Second state to receive primacy of Class VI wells.





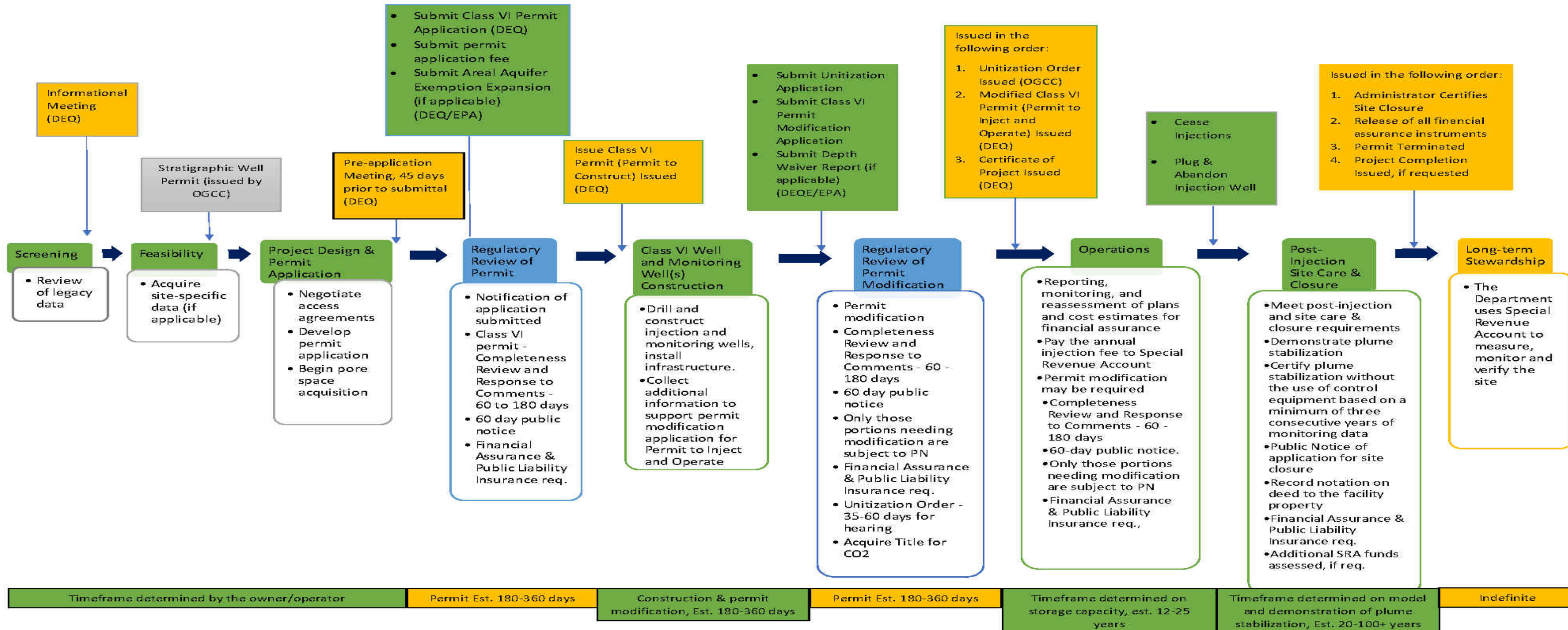
# Carbon Capture, Utilization, and Storage





# Wyoming Carbon Sequestration Permitting Process

## UIC Class VI Permitting Process



Note: Other items are required for permit and site closure per Wyo. Stat. § 35-11-313 and Water Quality Rules Chapter 24.



# Wyoming's UIC Class VI Permitting Process

- Informational Meeting
  - Pre-application Meeting
  - Application (Operator Public Notice)
  - Completeness/Technical Adequacy Review
  - Public Notice Draft Permit
  - **Permit to Construct**
- 
- Authorization to Inject Request or Permit Modification Application (Major Modifications)
  - Completeness/Technical Adequacy Review
  - Public Notice Draft Permit (if applicable)
  - **Unitization Order** (if applicable)
  - **Permit - Authorization to Inject**
- 
- ◆ Well Construction and Pre-injection Testing

# Application Forms

## Project (Facility Wide) Forms:

- Form A: Project Information
  - Form A-1: Project Site Characterization
  - Form A-2: Project AoR
  - Form A-3: Project Emergency and Remedial Response Plan
  - Form A-4: Project Financial Assurance Demonstration Plan
  - Form A-5: Project Testing & Monitoring Plan
  - Form A-6: Project Post Injection Site Care and Site Closure Plan
  - Form A-7: Project Formation Fluid Testing Program
  - Form A-8: Project USDW Analysis Plan
  - Form A-9: Project Quality Assurance and Surveillance Plan
  - Form A-10: Project Stimulation Program
  - Form A-11: Signatory Authorities



WATER QUALITY DIVISION

## GEOLOGIC SEQUESTRATION

### CLASS VI PERMIT APPLICATION - PROJECT INFORMATION

#### FORM A

#### Water Quality Rules, Chapter 24 Section 10

The geologic sequestration permit application consists of several parts: (1) Project Information, (2) Permit to Construct – Per Injection Well, and (3) Authorization to Inject – Per Injection Well. In order to receive the permit to construct, all items required under “Project Information” and “Permit to Construct” are required to be completed. During the construction of the Class VI well, information collected may warrant a permit modification in order to receive the “Authorization to Inject.” Only sections pertaining to the modification are required to be completed and public notice requirements will only pertain to those sections being modified.

**A pre-application meeting is required prior to the geologic sequestration permit application being submitted.**

A. The following forms are required to be completed and submitted as part of the Project Information:

1. Site Characterization
2. Area of Review (AoR)
3. Proposed Emergency and Remedial Response Plan (ERRP)
4. Proposed Financial Assurance Demonstration Plan
5. Proposed Testing and Monitoring Plan
6. Proposed Post-injection Site and Facility Closure Plan (PISC)
7. Proposed Formation Fluid Testing Program
8. Proposed Underground Source of Drinking Water (USDW) Analysis Plan
9. Proposed Quality Assurance and Surveillance Plan (QASP)
10. Proposed Stimulation Program
11. Signatory Authority

B. The following forms will need to be completed and submitted as part of the Permit to Construct:

1. Permit to Construct Application (Class VI well-specific information for the Project Information forms may be required in the Permit to Construct Application). The Permit to Construct includes:
  - a. Proposed Well Casing and Cementing Program
  - b. Proposed Plugging and Abandonment Plan
2. Proposed Injection Well Operations



# Application Forms (cont.)

## Well Specific Forms:

- Form B: Permit to Construct Application
  - Form B-1: Proposed Injection Well Operations
  - Form Bs can reference Form As if no changes are required. If changes are required per well, that information must be updated on Form Bs

## Authorization to Inject Forms:

- Form C: Authorization to Inject Application
  - Form C-1: Unitization Order
  - Form C-2: CO<sub>2</sub> Title

## Other Forms (Project Dependent):

- Form D: Areal Expansion to Class II Aquifer Exemption
- Form E: Depth Waiver Report

be directly accessed from a public road. A map of the access route(s) to the facility shall accompany the application.

*I, \_\_\_\_\_, certify under penalty of perjury that the applicant has secured and shall maintain permission for WDEQ personnel and their invitees to access the permitted facility, including (i) permission to access the land where the facility is located, (ii) permission to collect resource data as defined by Wyoming Statute § 6-3-414, and (iii) permission to enter and cross all properties necessary to access the facility if the facility cannot be directly accessed from a public road.*

### **2.0 Class VI Well**

Include a short narrative of the location of the Class VI well and the following figure(s):

- Geologic Sequestration Storage (Specific Class VI Well) Map: *Include: Injection well location, monitoring well(s) location(s), stabilized plume boundary, storage facility area, and property boundaries.*

### **3.0 Site Characterization Information**

This information is specific to the well. If only one well or information is the same as what has been provided in the Project Site Characterization Section, the information does not need to be repeated. However, a cross-section map and cross-sections specific to the well is needed here. Other sections can reference back to the Project Site Characterization Section. **Only complete sections that are different than what has been presented in the Project Site Characterization Section.**

Include any figures/maps that will be specific to the Class VI well.

- Cross-Section Map
- Cross Sections: *Include local cross sections shall include all major and minor aquifers from the surface to Precambrian basement, the proposed injection well, stratigraphic units, confining units, faults, and injection zone(s). Cross-sections shall be to scale and constructed with well logs.*

**Is storage reservoir information different than what is provided in the Project Site Characterization Section?**

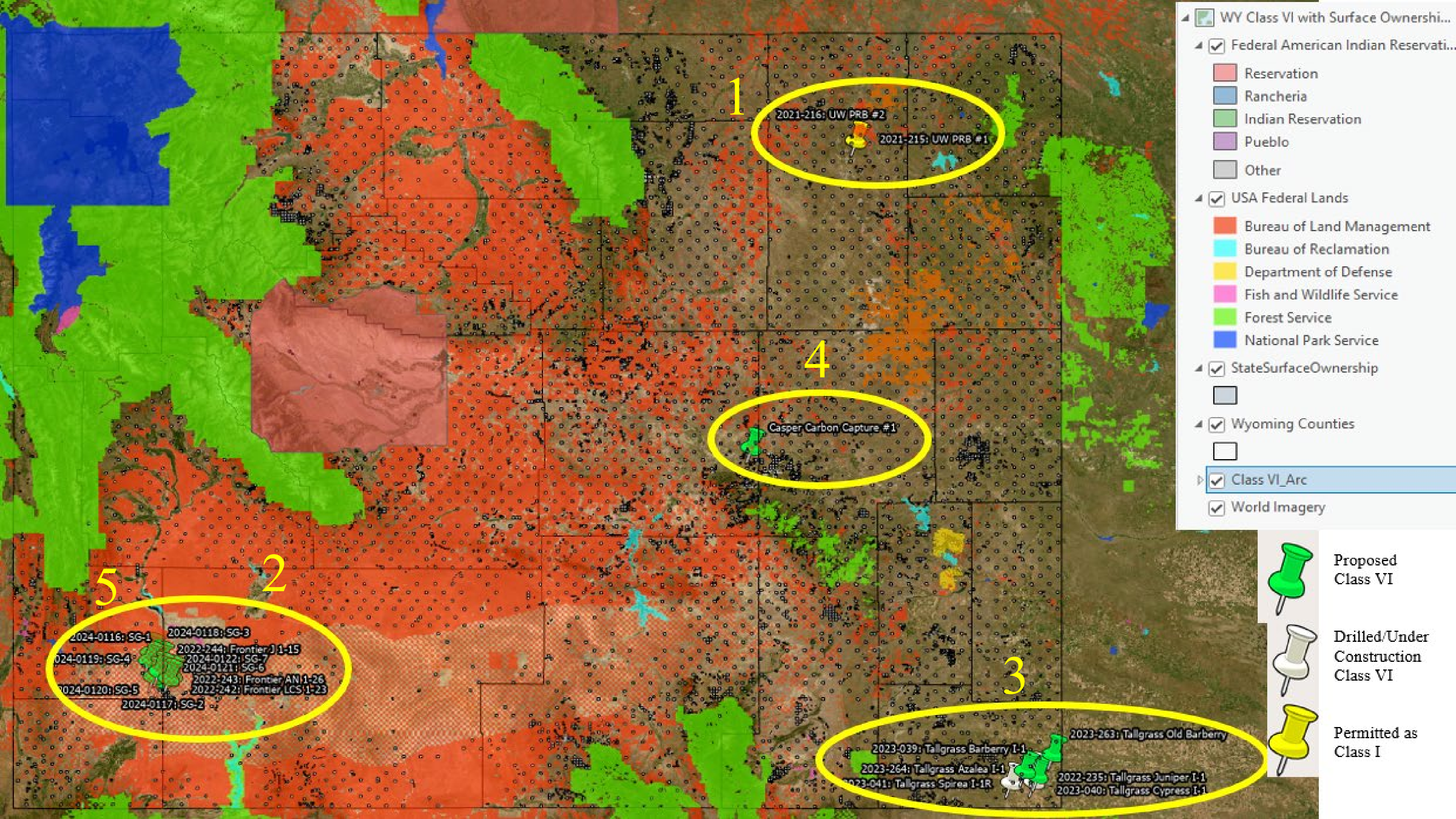
☐ Yes (complete only the applicable sections)    ☐ No (go to next Section 4.0)

### **Storage Reservoir (Injection Zone)**

Characterization of the injection zone and aquifers above and below the injection zone which may be affected including applicable pressure and fluid chemistry data to describe the projected effects of the injection activities and background water quality data that will facilitate the classification of any groundwaters which may be affected by the proposed discharge.

- Provide the geologic name of the aquifer or receiver and include a lithologic description.
- Provide the lateral and vertical limits of an aquifer or receiver.
- Structure of the injection and confining zone - Provide information on the geologic structure of the injection zone(s) to demonstrate that local and regional geologic structures are conducive to GS and form an adequate confining system.





- WY Class VI with Surface Ownershi...
- ☒ Federal American Indian Reservati...
- Reservation
- Rancheria
- Indian Reservation
- Pueblo
- Other
- ☒ USA Federal Lands
- Bureau of Land Management
- Bureau of Reclamation
- Department of Defense
- Fish and Wildlife Service
- Forest Service
- National Park Service
- ☒ StateSurfaceOwnership
- ☐
- ☒ Wyoming Counties
- ☐
- ☒ Class VI\_Arc
- ☒ World Imagery



Proposed  
Class VI



Drilled/Under  
Construction  
Class VI



Permitted as  
Class I



# Active/Under Review Class VI Projects:

Map Location	Project	Proposed Storage Volume (est.)	Application Received	Permit to Construct Issued	Authorization to Inject Request/ Permit Modification
1	CarbonSAFE: Dry Forks Station <ul style="list-style-type: none"> <li>- 8 additional wells proposed.</li> <li>- Conversion of 2 Class I wells to Class VI.</li> </ul>	50 MMT; 30 years	4/27/2021	11/5/2021 (2 wells under Class I)	--
NA	Painter Reservoir CCS	3.75 MMT; 15 years	12/1/2021	11/30/2023 (Permit Denied)	
2	Frontier Carbon Solutions, LLC Sweetwater Carbon Storage Hub <ul style="list-style-type: none"> <li>- 1 well drilled summer 2025.</li> <li>- Remaining 2 planned in 2026.</li> </ul>	25.485 MMT; 20 years	9/15/2022	12/14/2023 (3 wells)	Major Permit Modification Application expected in 2026.

# Active/Under Review Class VI Projects:

Map Location	Project	Proposed Storage Volume (est.)	Application Received	Permit to Construct Issued	Authorization to Inject Request/ Permit Modification
3	Tallgrass High Plains Carbon Storage, LLC Eastern Wyoming Sequestration Hub	132 MMT; 30 years	3/29/2023 (1 well) 12/2023 (5 wells)	9/11/2024 (1 well) 10/31/2024 (5 wells)	6/27/2025 (1 well) 10/31/2025 (1 well) 2 wells ATI request under review. 1 well ATI request expected late 2025
4	Casper Carbon Capture, LLC Casper Carbon Storage Hub	6 MMT; 15 years	7/1/2024 (1 well)	Under Review	--
5	Frontier Carbon Solutions, LLC Project Speed Goat - Proposed Stacked Storage	69 MMT; 40 years	2/10/2025 (7 wells)	Under Review	--



# Permitting Lessons Learned

- ◆ Streamlined and standardized application forms.
- ◆ Early and often communication with applicant/operator is key.
- ◆ Early informational meetings well before application submittal helps with planning and staffing.
- ◆ Non-technical items (Financial Assurance/Insurance) may require assistance to review.
- ◆ Single review of site-wide information can reduce review times (Form A).



Tallgrass High Plains Carbon Storage, LLC Juniper I-1 well during initial commissioning injection test, 6/28/2025, photo by TH



# Permitting Lessons Learned

- ◆ Organization, especially for multiple wells at a single facility, is key.
- ◆ Changes to plans (T&MP, ERRP, etc.) will increase review time from PTC to ATI.
- ◆ Ensure consistency across multiple submittals for a single well.
- ◆ Operators have much larger staffing resources than regulators, plan accordingly.
- ◆ Poor planning on the applicant's part does not constitute panic on the regulator's part.
- ◆ Expect the unexpected.



Tallgrass High Plains Carbon Storage, LLC Juniper I-1 wellhead and flowline/metering building prior to initial commissioning injection test, 6/28/2025, photos by TH



# Thank you!

Call: 1-307-777-7937 Open Hours: Mon - Fri 8:00 am - 5:00 pm Wyo.Gov Citizen Business Government Vacancies Complaints

DEQ WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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## Class VI

Home > Water Quality > Groundwater > Underground Injection Control > Class VI

Contact Electronic Documents Submittal Forms and Guidance

GEM Database Rules and Regulations

Abandoned Mine Land Administration Air Quality Industrial Siting Land Quality

Class VI Carbon Capture, Utilization & Storage (CCUS) refers to the process in which carbon is captured from industrial processes and either utilized by turning the carbon into a new product or stored by injecting the carbon into a storage site, usually underground in a geologic formation.

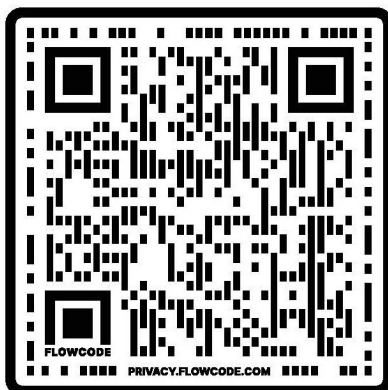
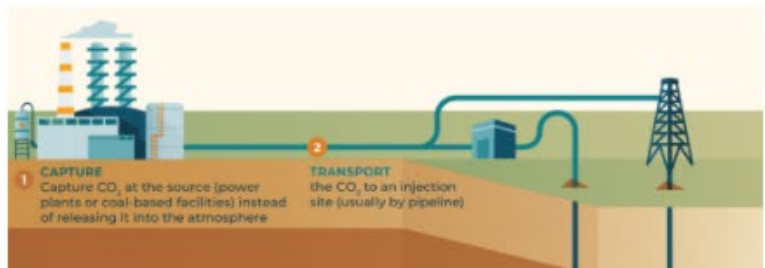
Click here to Sign up for the Class VI listserv

**Related Programs**

- Underground Injection Control
- Class I
- Class V
- Class VI**
- Public Notices

**1 CAPTURE** Capture CO<sub>2</sub> at the source (power plants or coal-based facilities) instead of releasing it into the atmosphere

**2 TRANSPORT** the CO<sub>2</sub> to an injection site (usually by pipeline)



- ◆ Lily Barkau, P.G.  
Groundwater Section Manager  
(307) 777-7072  
[Lily.Barkau@wyo.gov](mailto:Lily.Barkau@wyo.gov)
- ◆ Tyler Harris, P.G.  
Geology Supervisor – UIC Class VI Program  
(307) 777-8275  
[Tyler.Harris@wyo.gov](mailto:Tyler.Harris@wyo.gov)

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# DATA CENTER GROWTH OUTLOOK IN THE WAKE OF THE ARTIFICIAL INTELLIGENCE BOOM

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**Dan Thompson**

Associate Director – Datacenter Services  
and Infrastructure  
S&P Global Commodities Insight



# Data Center Growth Outlook in the Wake of the AI Boom



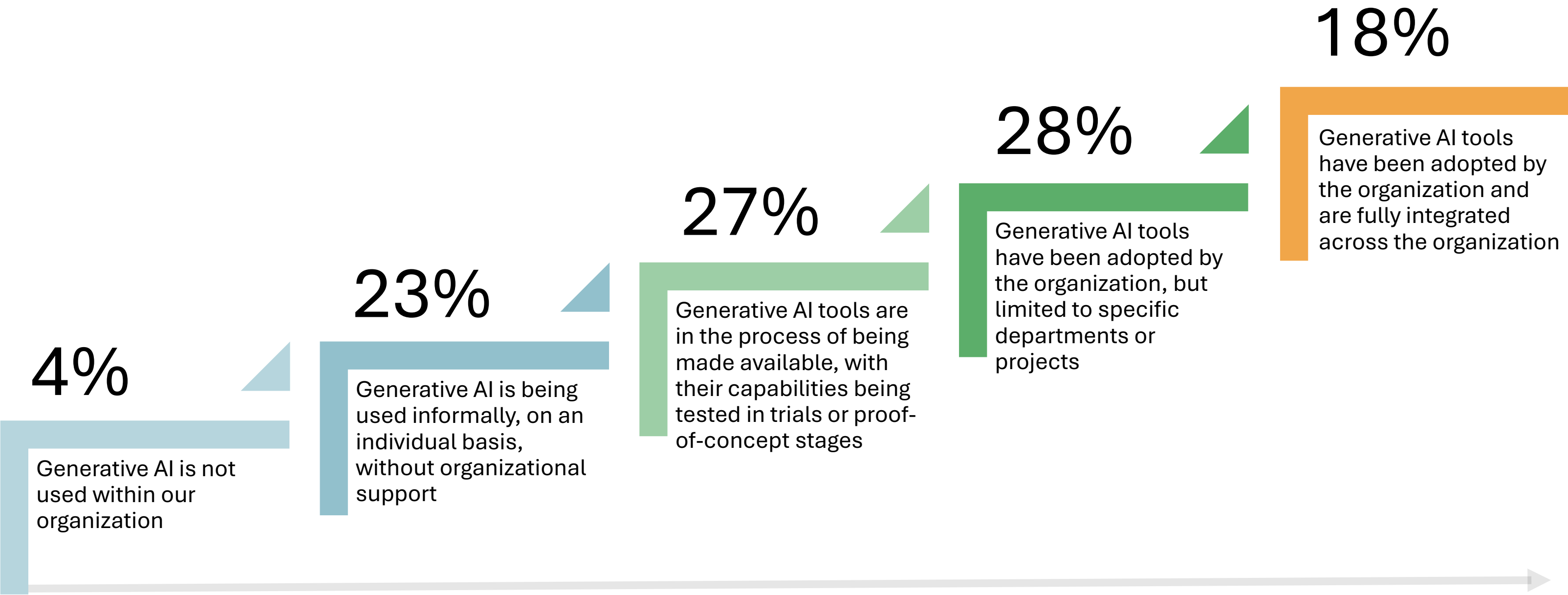
# Agenda

The state of AI

Growth in Datacenters associated with AI

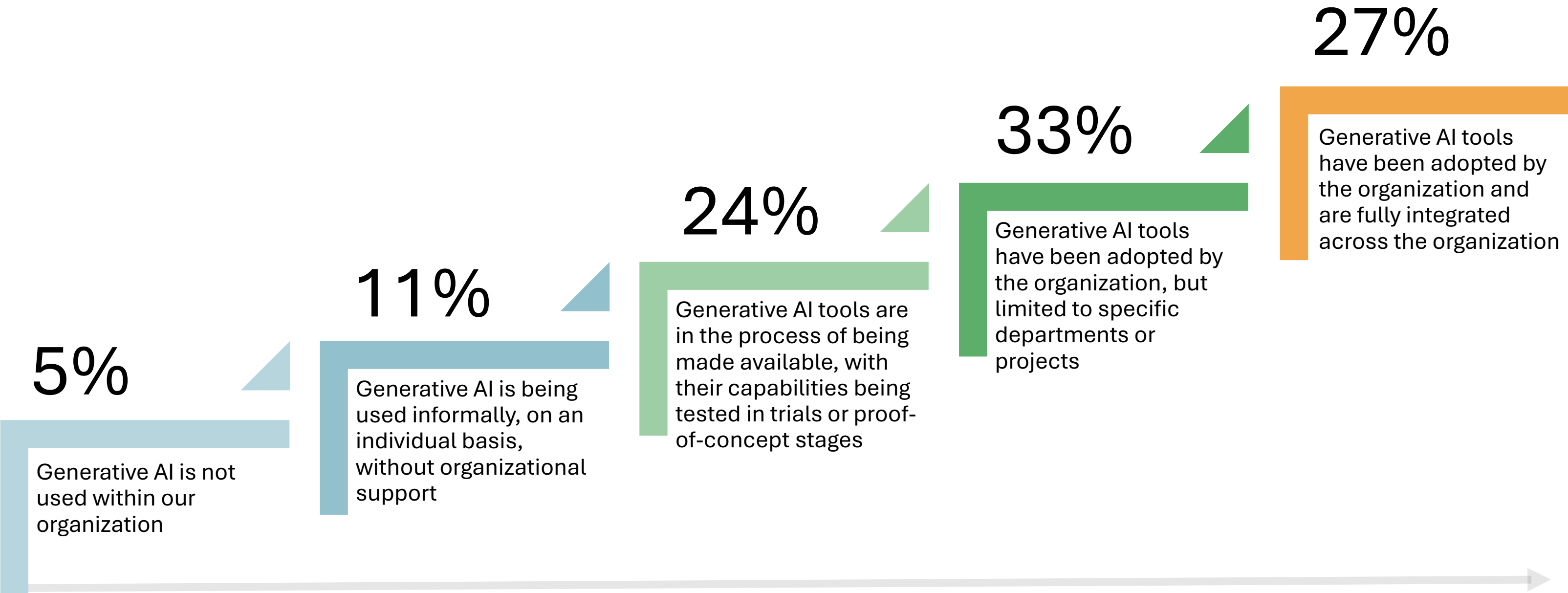


# Organizations are aggressively integrating generative AI



Q. Which of these statements most accurately reflects the use of generative AI at your organization?  
Base: All respondents (n=712).  
Source: 451 Research's Voice of the Enterprise: AI & Machine Learning, Infrastructure 2024.

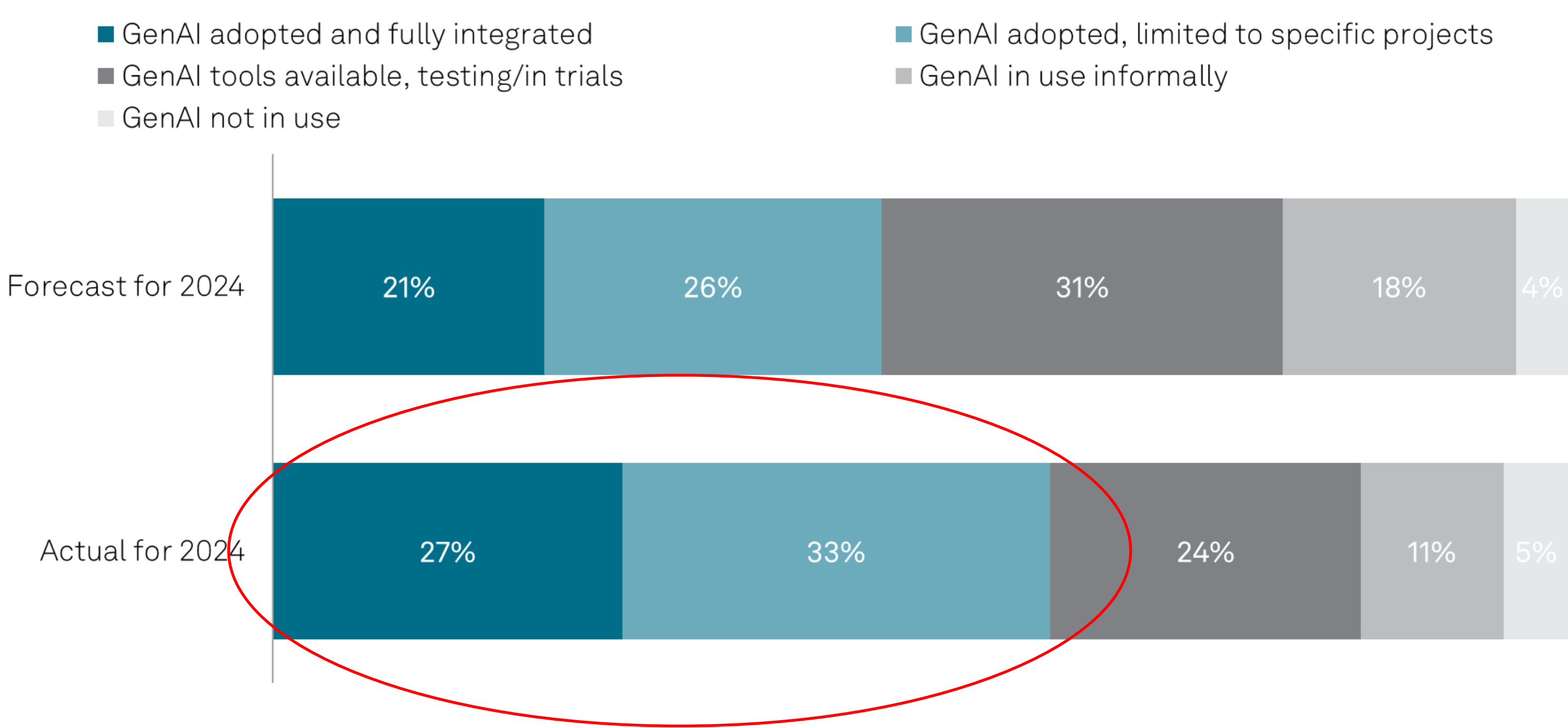
# Organizations are aggressively integrating generative AI



Q. Which of these statements most accurately reflects the use of generative AI at your organization?  
Base: All respondents (n=1,006).  
Source: 451 Research's Voice of the Enterprise: AI & Machine Learning, Use Cases 2025.



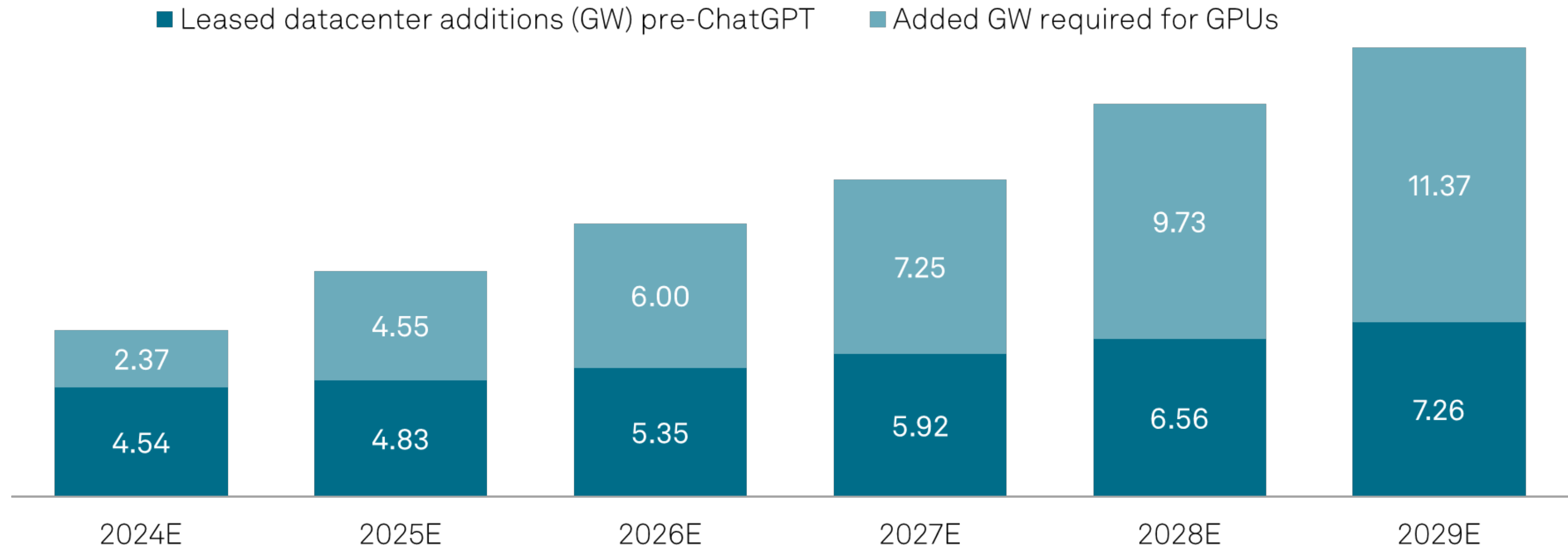
# Generative AI uptake in 2024 outstripped forecasts



Q. Please select the appropriate level of usage for each AI type. Base: All respondents (n=1,006) Source: 451 Research's Voice of the Enterprise: AI & Machine Learning, Use Cases 2025.  
Q. Which of these statements most accurately reflect where you predict the use of generative AI will be within your organization in the next 12 months? Base: All respondents (n=1,001). Source: 451 Research's Voice of the Enterprise: AI & Machine Learning, Use Cases 2024.

# GenAI adding 10 GW+ per year of global demand not expected in late 2022

## Net new AI capacity (GW) vs. planned supply pre-ChatGPT



Source: 451 Research’s Datacenter KnowledgeBase Q3 2022 and GPU Impact on Datacenters – Market Monitor, June 2024.



# Demand for Nvidia GPUs = upward revenue revisions (infrastructure perspective)

## Revisions summary

		CY-2019	CY-2020	CY-2021	CY-2022	CY-2023	CY-2024	CY-2025	CY-2026	Sum CY24-26
NVDA	Change from 1/1/24					1,714	34,853	88,675	111,240	234,768
	Change from 1/1/23					29,785	91,528	158,834	193,162	443,523
	Dec 31, 2024	2,983	6,696	10,613	15,005	47,525	113,619	183,820	223,384	520,823
	Jan 2, 2024	2,983	6,696	10,613	15,005	45,811	78,766	95,145	112,143	286,055
	Jan 1, 2023	2,983	6,696	10,613	15,279	22,091	22,091	24,986	30,222	77,300

Data compiled: Feb 2025.  
Sources: Visible Alpha, December 31, 2024.  
© 2025 S&P Global.

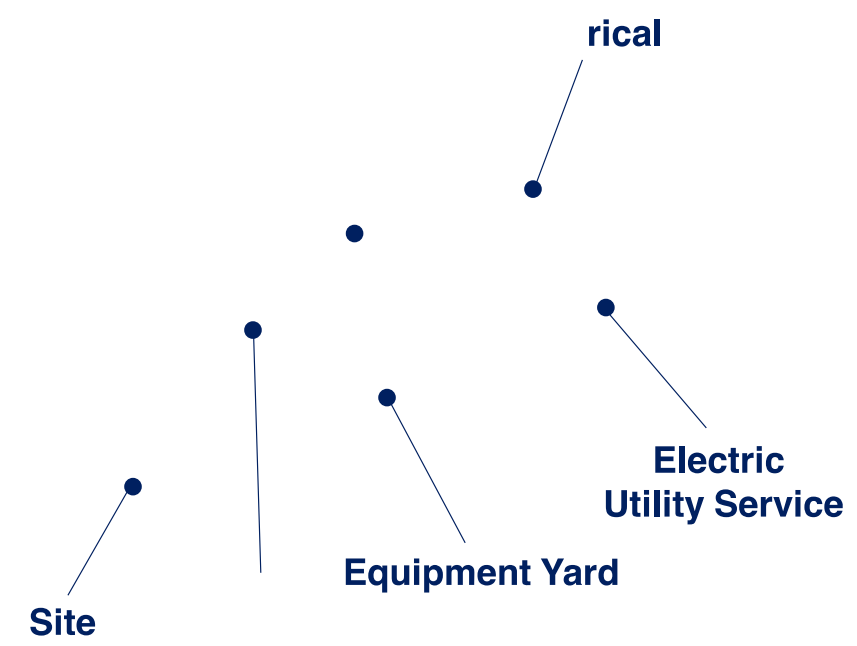
# Agenda

The state of AI

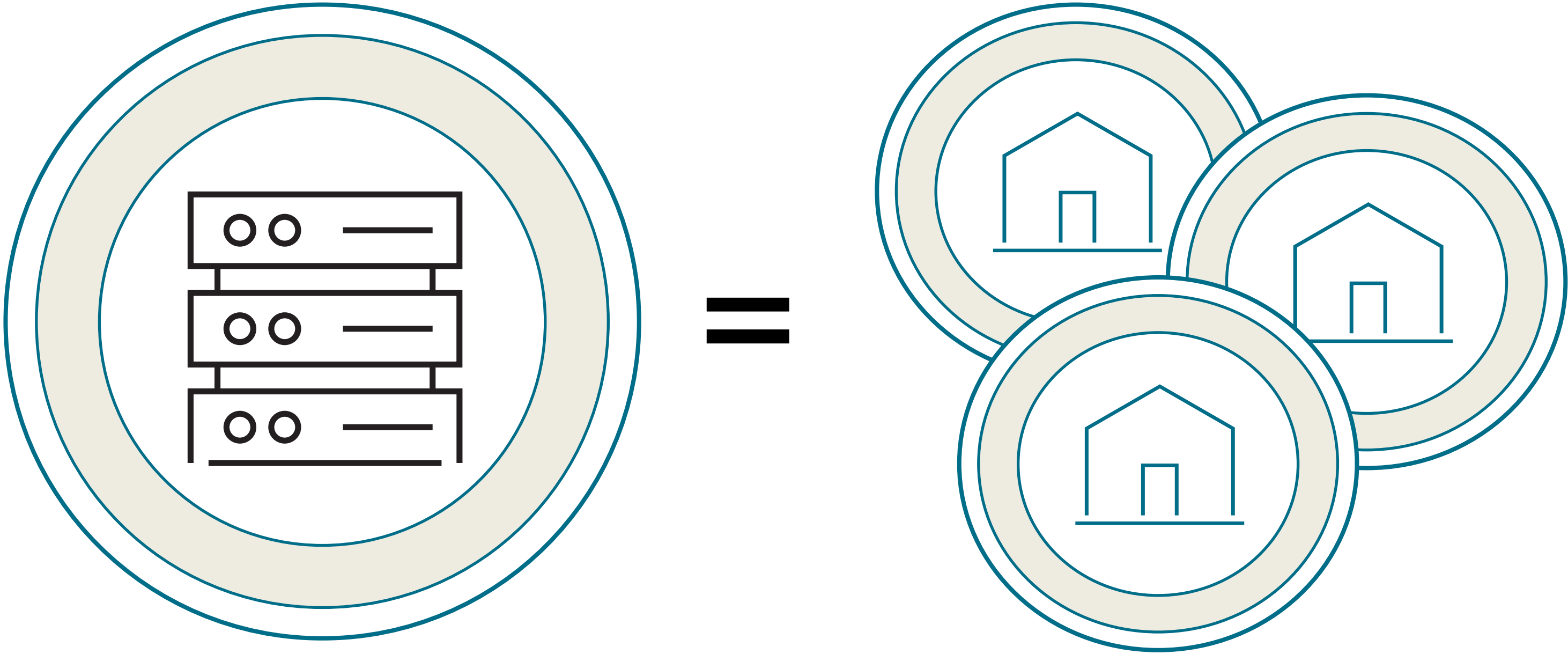
Growth in Datacenters associated with AI



# What is a datacenter? A building housing IT equipment

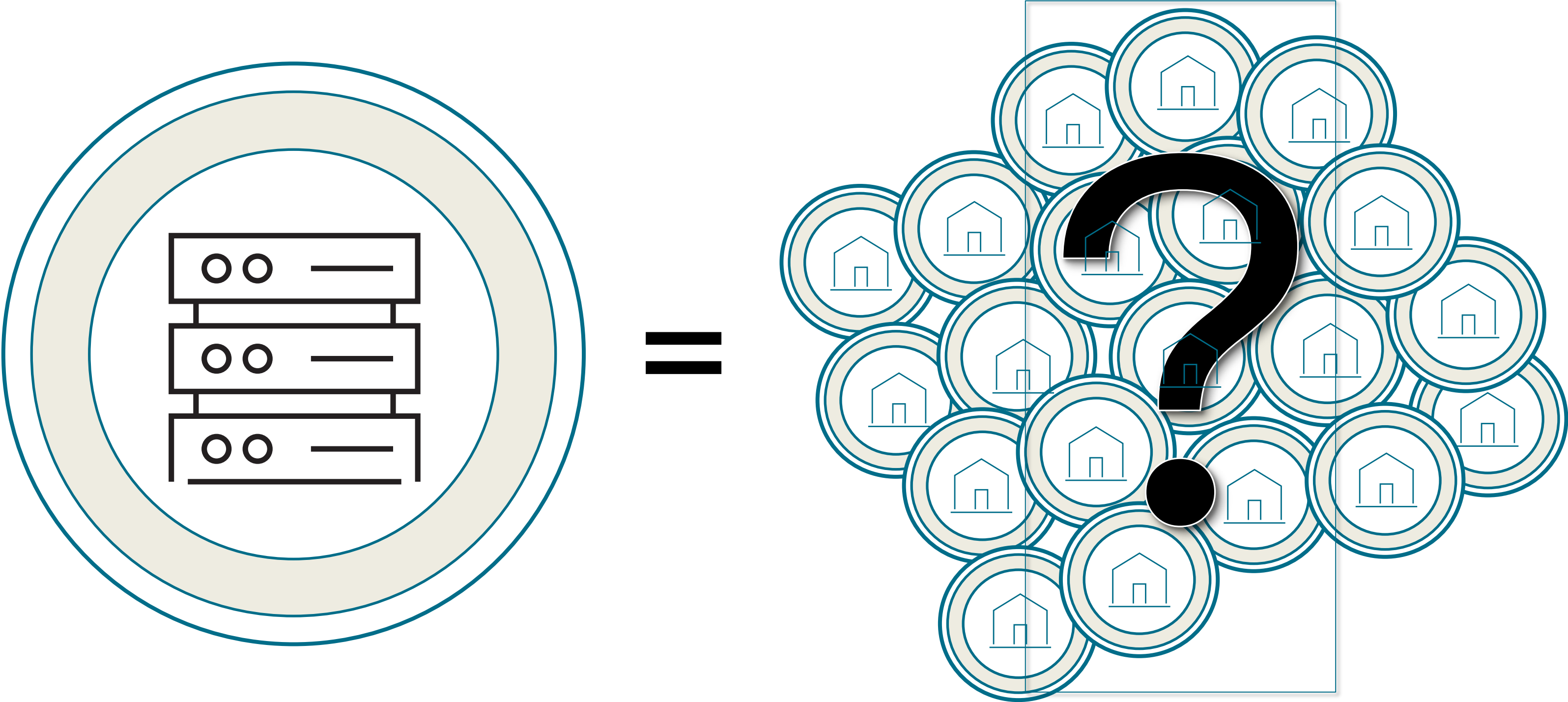


Traditional rack = 3 homes

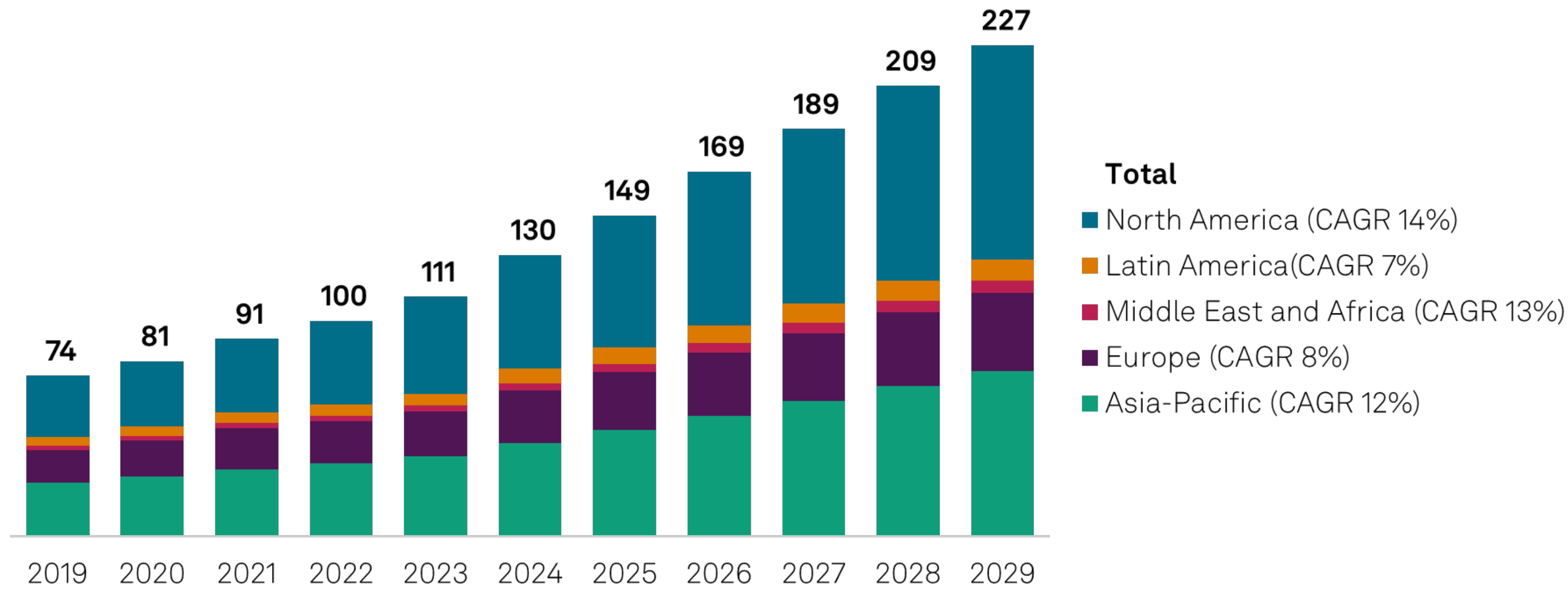




High-density rack = 80-100 homes



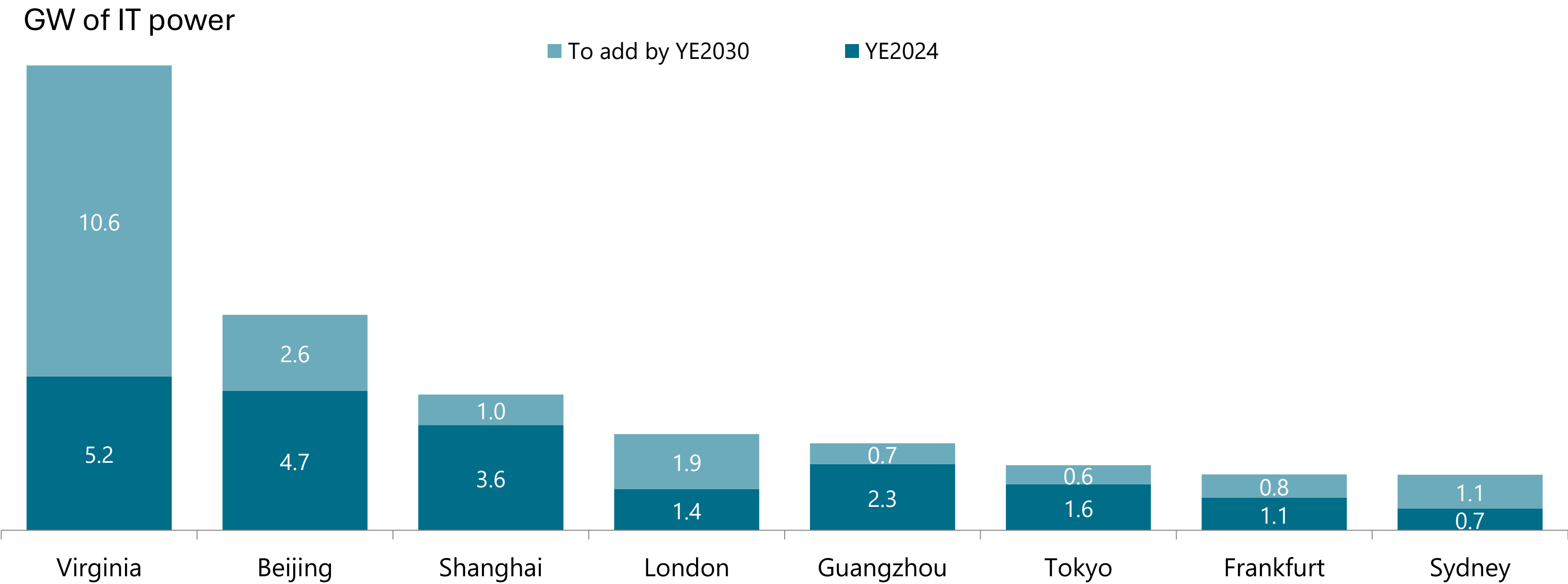
# Most new demand is expected in the US (to start)



Source: 451 Research’s Datacenter Services & Infrastructure Market Monitor & Forecast, March 2025.



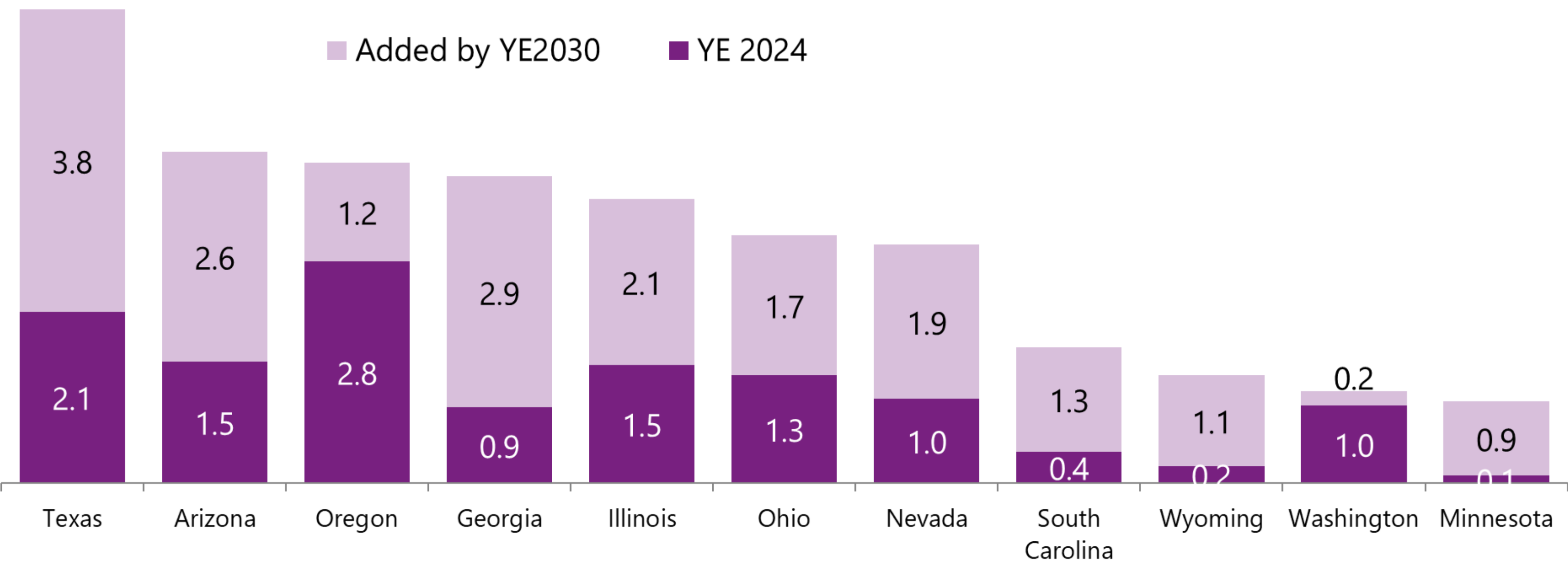
# Northern Virginia: The largest global market, due to almost triple by 2030



Source: 451 Research Datacenter KnowledgeBase, June 2025.

# Texas also giant, but growth is everywhere

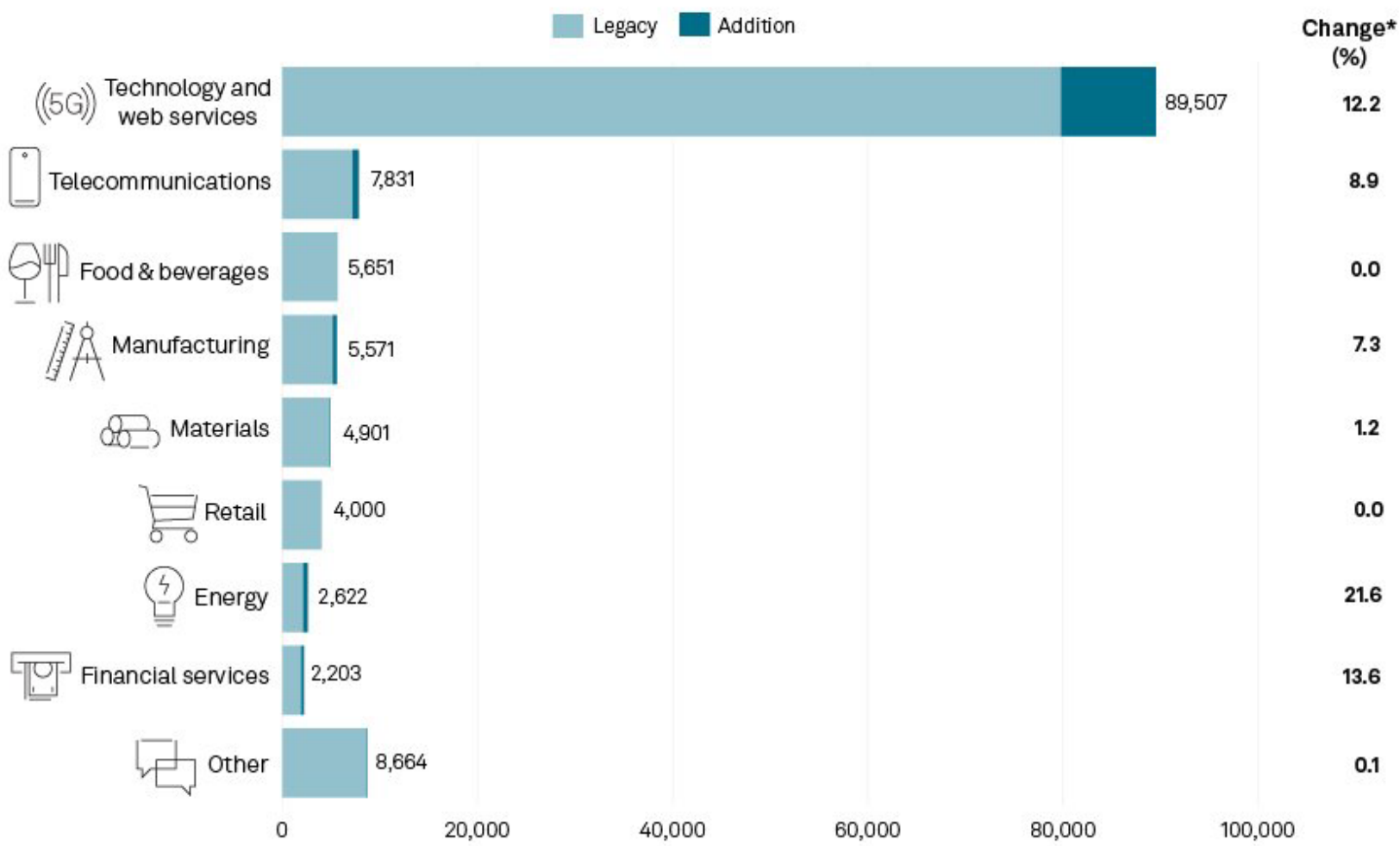
GW of IT power



Source: 451 Research Datacenter KnowledgeBase, June 2025.

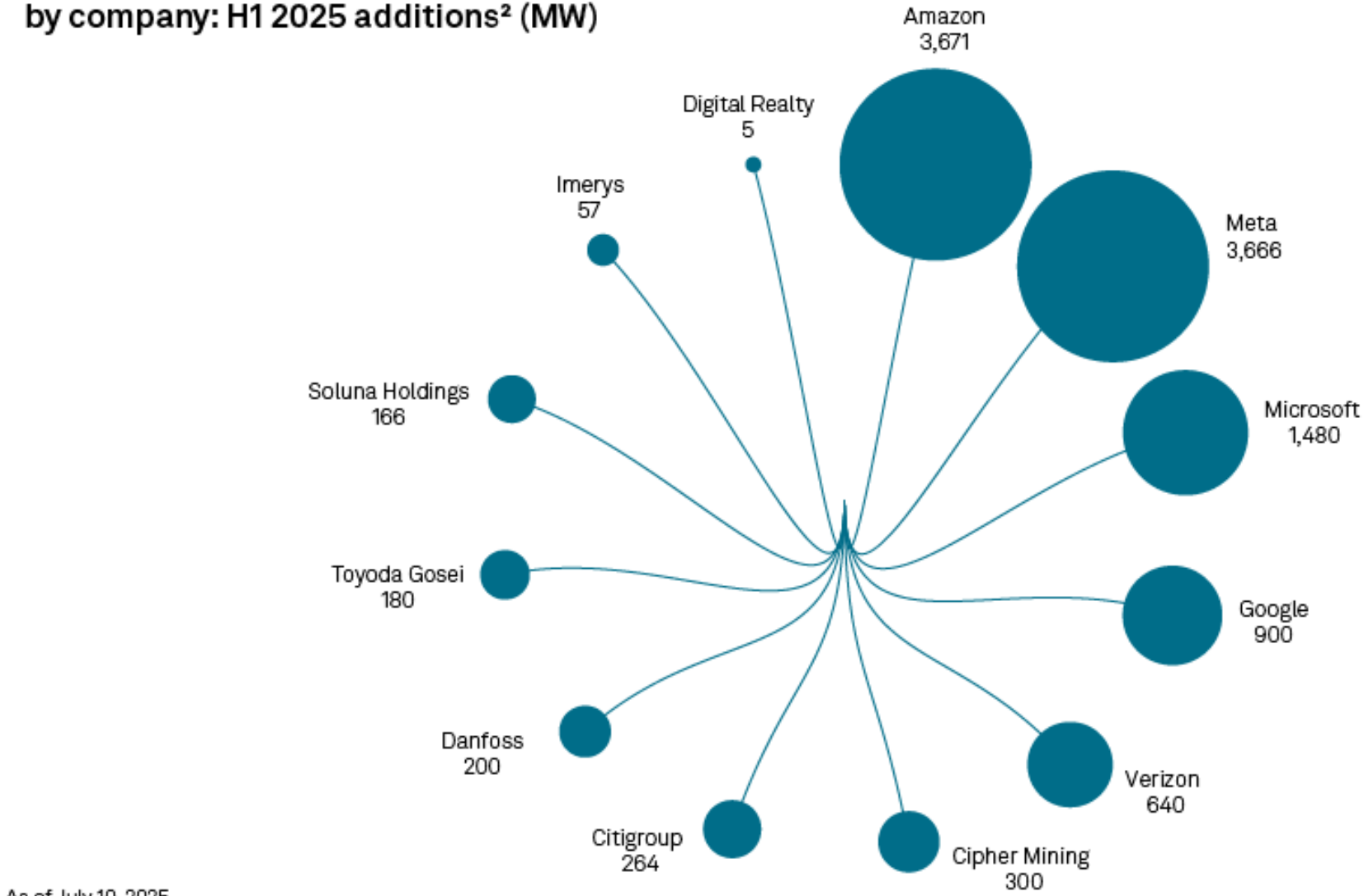


Contracted US carbon-free energy capacity by sector (MW)



As of July 10, 2025.  
\* From February 2025 to July 2025.  
Tracked carbon-free energy capacity contracted with US projects only. Includes totality of Microsoft-Brookfield deal pending further visibility into US and Europe breakout for contracted capacity.  
Cumulative capacity. All tracked deals.  
Analysis does not include most on-site corporate renewable capacity, such as rooftop solar systems.  
Legacy database adjusted based on availability of new information.  
Sources: S&P Global Market Intelligence; public reports.  
© 2025 S&P Global.

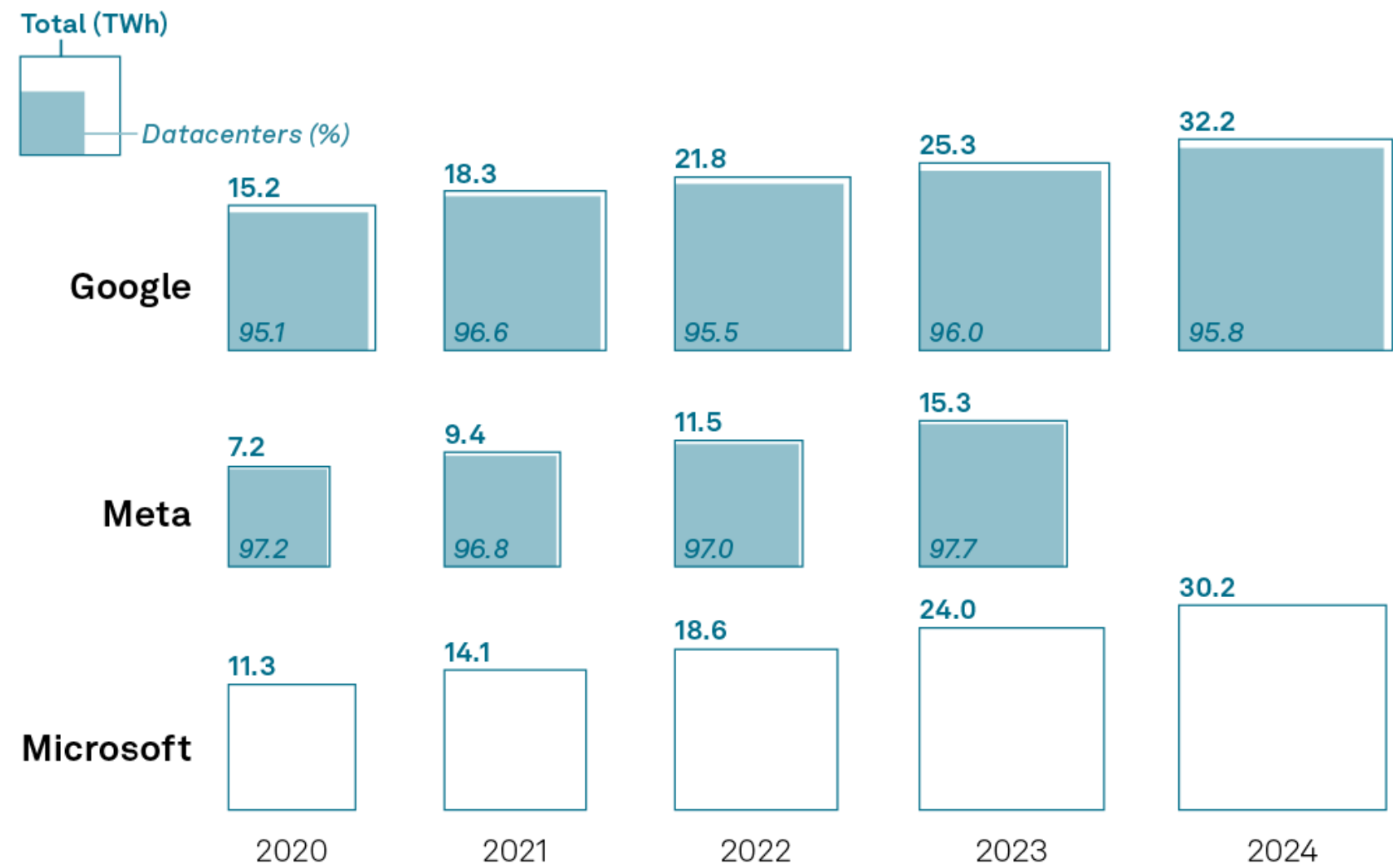
Tracked US carbon-free energy capacity<sup>1</sup> by company: H1 2025 additions<sup>2</sup> (MW)



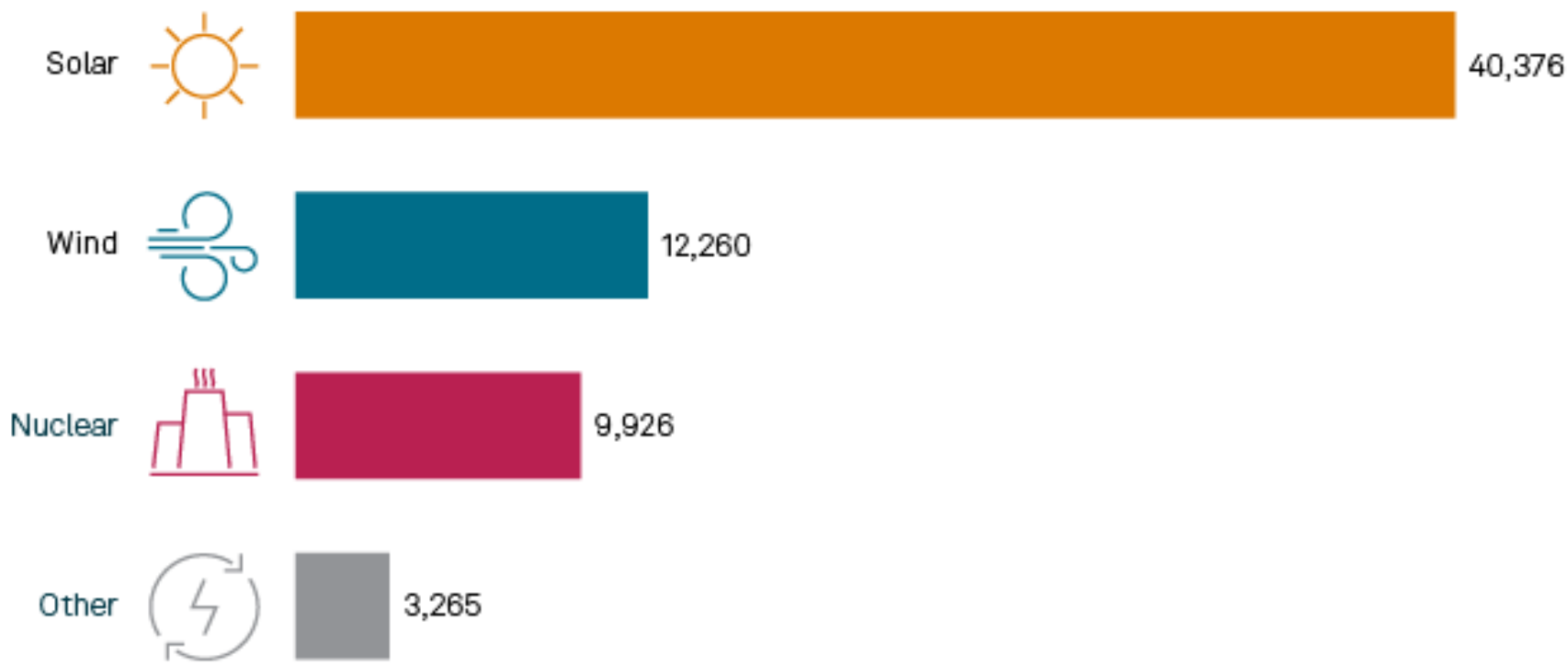
As of July 10, 2025.  
<sup>1</sup> Reported and estimated capacity.  
<sup>2</sup> From February 2025 to July 2025 update.  
Tracked carbon-free energy capacity contracted with US projects only.  
Analysis does not include most on-site corporate renewable capacity, such as rooftop solar systems.  
Sources: S&P Global Market Intelligence; public reports.  
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# Technology breakout among corporate buyers

- Solar extends lead over wind in corporate clean energy capacity in US.
- Hyperscalers increasingly exploring firm, zero-carbon options including nuclear and hydro.



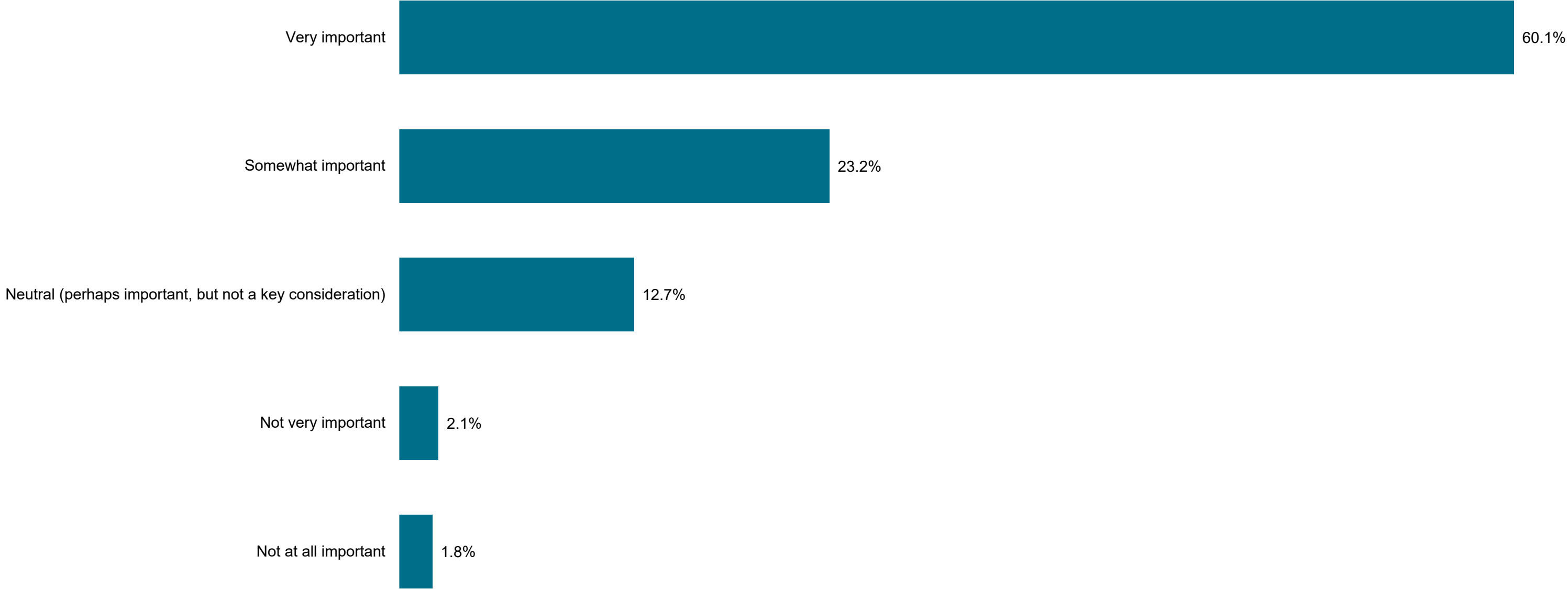
Carbon-free US energy capacity contracted by top 4 US hyperscalers, by type (MW)



As of June 30, 2025.  
US hyperscalers included: Amazon, Google, Meta and Microsoft.  
Other includes geothermal and hydroelectric deals.  
Includes reported and estimated cumulative contracted capacity. Only includes deals with sufficient details available.  
Analysis does not include most on-site corporate renewable capacity, such as rooftop solar systems.  
Sources: S&P Global Market Intelligence; public reports.  
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# Overall, how important to your organization is the efficiency and sustainability of its datacenters, whether owned or leased?



Q. Overall, how important to your organization is the efficiency and sustainability of its datacenters, whether owned or leased?  
Base: Respondents whose organizations currently own and/or operate datacenter facilities, server rooms, or use colocation and/or cloud (n=607)  
Source: 451 Research's Voice of the Enterprise: Datacenters, Sustainability 2025



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# AI DATA CENTERS

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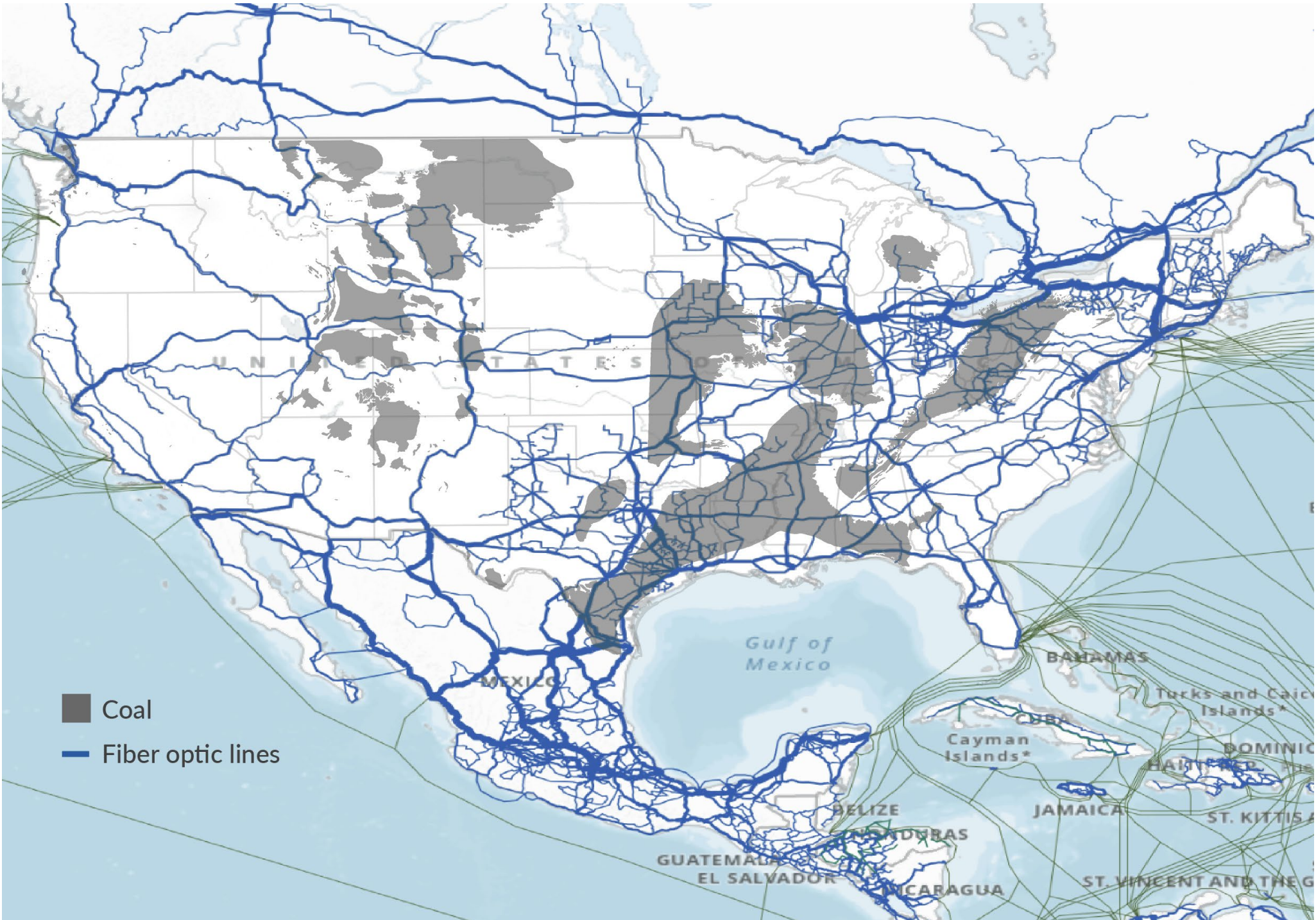


**John Pope**

CEO  
Carbon Geocapture



MAP PROVIDED BY CARBON GEOCAPTURE



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# CLOSING REMARKS

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# NETWORKING RECEPTION

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