

Cap-and-Invest: Carbon Management

Carbon capture, removal, utilization, and storage

Public Meeting: May 21, 2026

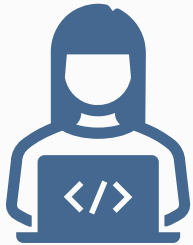
Meeting purpose

This meeting kicks off our public engagement process related to engineered carbon management in the Cap-and-Invest Program.

Today's goals are to:

- Discuss existing pathways for engineered carbon management in the Cap-and-Invest program
- Seek public input related to carbon management in the program and in Washington

Where are we in the process?



Exploration process: Carbon management within Cap-and-Invest Program and Washington



Public input: Help inform priorities and direction



Next meeting May 28: Permanent sequestration exemption pathway



Next steps: Planning, coordination, and continued engagement

Agenda

- 1 Climate Commitment Act overview
- 2 What is carbon management?
- 3 Carbon management in the Cap-and-Invest Program
- 4 Interactive discussion and Q&A
- 5 Next steps

Climate Commitment Act



Cap-and-Invest Program

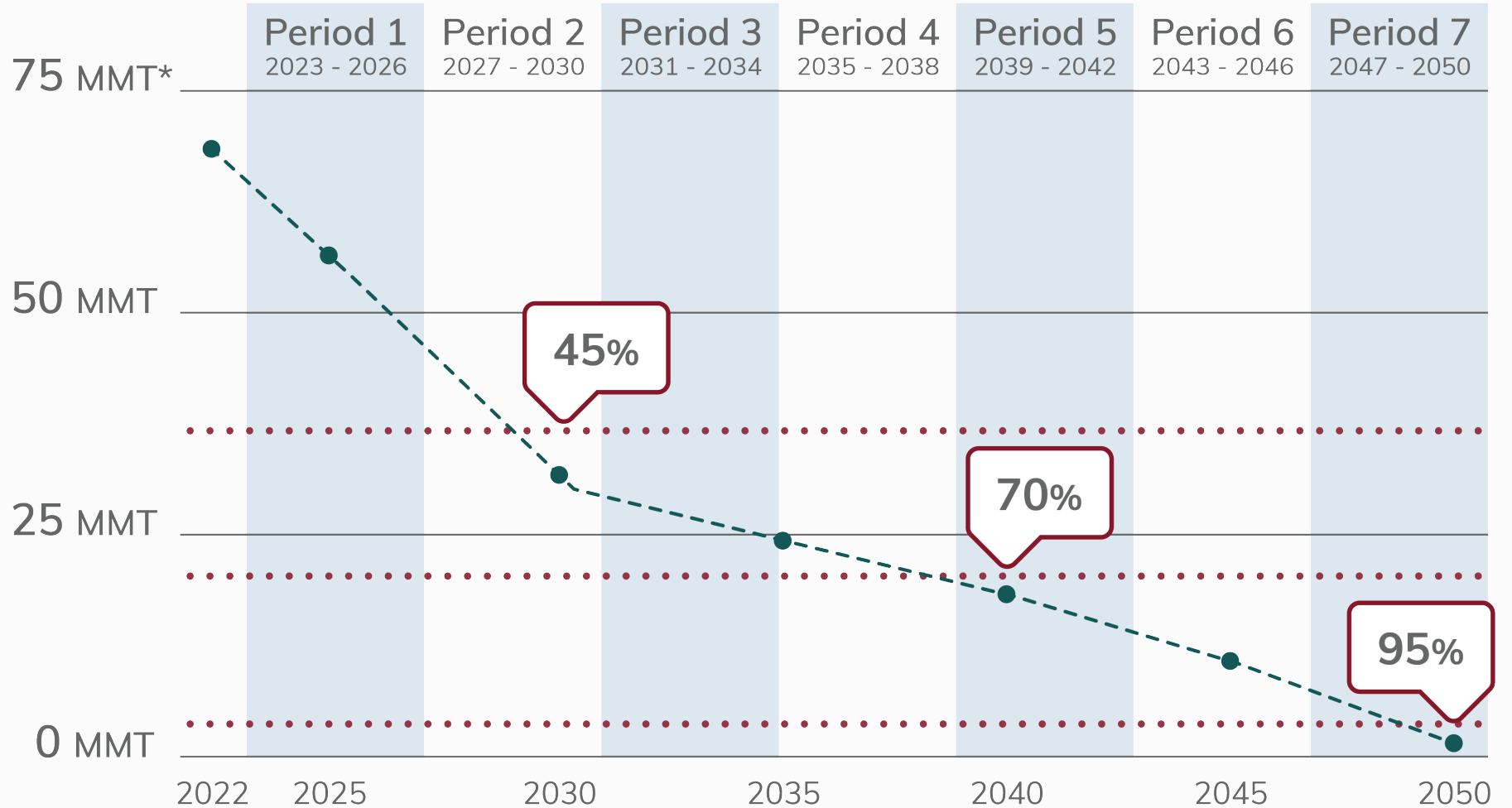


Initiative to improve air quality

Cap-and-Invest Program

Projected allowance budgets over time

*MMT = million metric tons of carbon dioxide equivalent
 Reductions based on 1990 emission levels



Does not reflect changes under consideration in Cap-and-Invest Program Updates and Linkage rulemaking

Ways to comply



Reduce greenhouse
gas emissions



Emissions
allowances



Offset
credits
(limits apply)

Allowance or offset credit = 1 metric ton of carbon dioxide equivalent



Introduction to carbon management

Carbon management

Suite of technologies and practices used to:

- Reduce current carbon dioxide emissions
- Remove historical carbon dioxide emissions

Includes carbon capture, removal, utilization, transport, and storage



Role of carbon management

Not a replacement for other emissions reduction measures

Can help Washington meet our climate goals by

- Addressing certain sources of emissions from hard-to-decarbonize sectors
- Removing historical emissions to help the state work toward its net-zero emissions limit



Important terminology



Point source carbon capture

- Capturing carbon dioxide from stationary sources, such as industrial facilities or power plants, before it is released into the atmosphere



Point source carbon capture and storage

- Permanently storing or containing carbon dioxide that has been captured from a point source(s), such as through geologic sequestration or carbon mineralization

Carbon sequestration in Washington



www.dnr.wa.gov/geologic-carbon-sequestration

Potential storage options

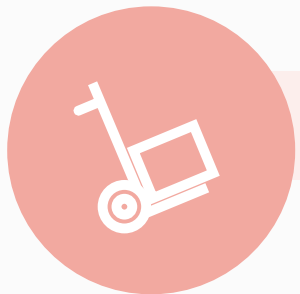
- Basalt formations
 - Eastern Washington
 - Columbia River Basalt Group
- Sandstone reservoirs
 - Western Washington
 - Eocene sandstones

Important terminology



Carbon utilization

- Using captured carbon dioxide in materials, energy sources, other value-added applications.
- Can be used as a substitute for fossil-based carbon in products.
- Some products may be able to durably store carbon dioxide.



Carbon transport

- Transporting carbon dioxide from where it is captured to where it can be permanently stored or put to beneficial use.

Important terminology



Carbon dioxide removal (CDR)

- Deliberate human activities that remove carbon dioxide from the atmosphere and durably store it in geological, terrestrial, or ocean reservoirs, or in products.
- Two common classifications:



Technology-based CDR

- Uses engineered techniques to capture and store carbon dioxide, such as direct air capture.



Nature-based CDR

- Uses natural ecosystems to capture and store carbon dioxide, such as forest-based CDR.

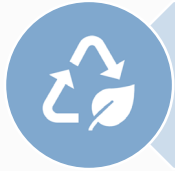
**Out-of-scope of this
engagement
process**



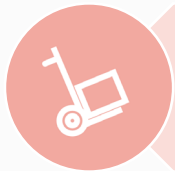
Engineered carbon management



Point source carbon capture and storage



Carbon utilization



Carbon transport



Technology-based carbon dioxide removal

Want feedback on engineered carbon management in:

- The Cap-and-Invest Program
- Washington State

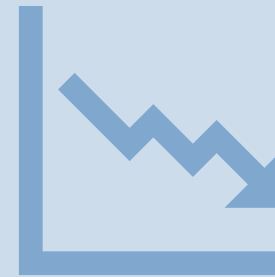
Seeking to better understand broad interest, relevance, and needs

Focus areas for today's conversation

Washington



Cap-and-Invest
Program





Engineered carbon management in Washington

Engineered carbon management in Washington

One of many strategies to reduce and remove emissions

Washington-specific considerations discussed in state reports:

- [Washington State Comprehensive Climate Action Plan](#)
- [Washington 2021 State Energy Strategy](#)
- [Carbon Dioxide Removal Evaluation Study](#)



Engineered carbon management in Washington

Multiple agencies play a role in engineered carbon management across Washington

Ecology

DNR

Commerce

UTC

U.S. EPA

Collectively these agencies address important considerations related to:

- Siting and permitting
- Safety
- Subsurface characterization
- Environmental and human impacts
- Technology and innovation
- Integration into climate policies

Ecology

- Power plant greenhouse gas emissions standards
- **Cap-and-Invest Program**
- Permitting and clean energy coordination





Discussion 1

Engineered carbon management in Washington

Mural board activity #1

Carbon management in Washington

1. What are barriers to implementing engineered carbon management in Washington?
2. What are potential actions Washington can take to address the barriers?
3. What potential impacts or harms could engineered carbon management have on communities and Tribes in Washington? How can Washington proactively mitigate these?
4. Share other thoughts on carbon management in Washington.



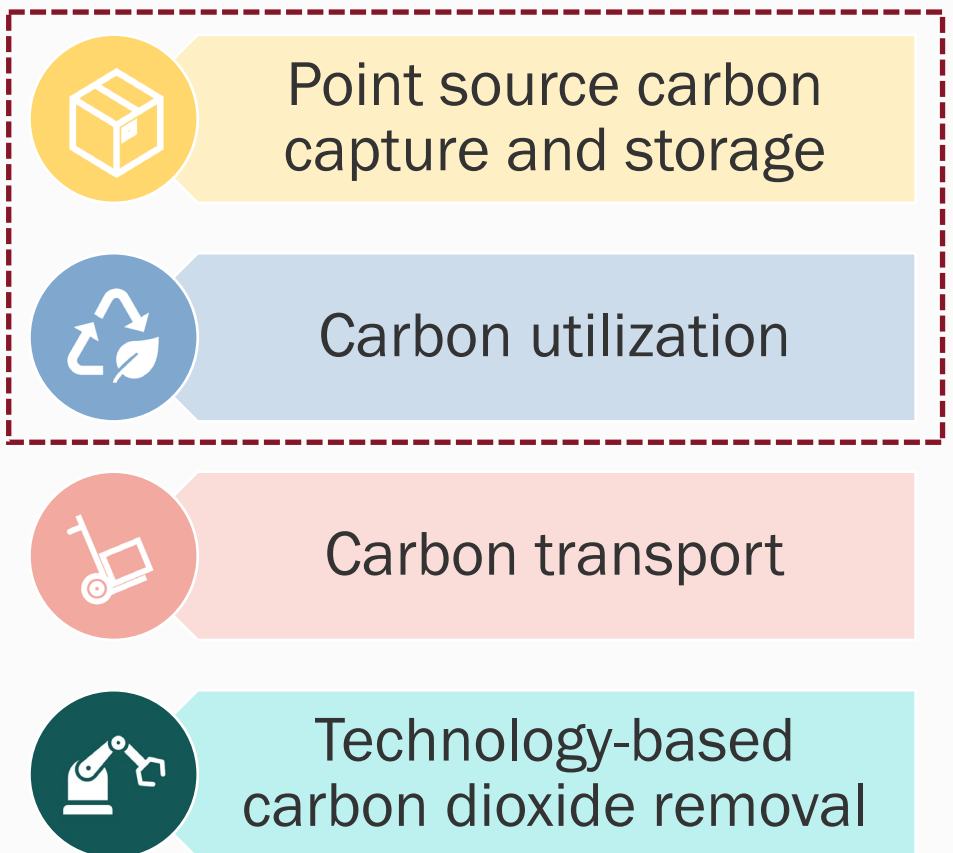
Engineered carbon management in Cap-and-Invest Program

Carbon management pathway #1

Emissions exemption pathway for sequestered carbon dioxide

- Covered entities do not have a compliance obligation for certain categories of emissions
- Includes sequestered emissions
- If they are:
 - Permanently sequestered for at least 1,000-years
 - Geologic sequestered or mineralized

Engineered Carbon Management



Carbon management pathway #2

Offsets

- Emitters can cover a small percentage of their emissions by purchasing offset credits
- The CCA allows for the development of offset protocols for carbon dioxide removal projects
 - May include carbon mineralization, direct air capture and storage, others...
- Must occur in addition to otherwise required greenhouse gas emissions reductions

Engineered Carbon Management



Point source carbon capture and storage



Carbon utilization



Carbon transport



Technology-based carbon dioxide removal

Carbon management in Cap-and-Invest

Exempt emissions
(WAC 173-446-040)

Offsets
(RCW 70A.65.170)



Must occur in addition to otherwise required greenhouse gas emissions reductions

1,000-year sequestration rule

Both pathways may involve geologic sequestration or mineralization



Discussion 2

Engineered carbon management in Cap-and-Invest

Mural board activity #2

Carbon management in Cap-and-Invest

1. What additional clarity is required for effective deployment of engineered carbon management for Cap-and-Invest Program compliance?
2. Any specific questions regarding the treatment of different carbon management pathways under the Cap-and-Invest Program?
3. Other thoughts on carbon management in Cap-and-Invest Program?

Be involved



Attend May 28 virtual meeting

- Permanent sequestration exemption pathway
- For an audience familiar with carbon management policies or technologies
- [Registration information](#)



Submit comments until June 26

- Submit comments: <https://ecology.commentinput.com/?id=ehB9kFjVx2>
- Schedule a meeting: CCA_carboncapture@ecy.wa.gov



Sign up for email updates

https://public.govdelivery.com/accounts/WAECY/s/subscriber/new?topic_id=WAECY_15

Next steps



Emissions exemption pathway meeting, May 28

Public comment period, May 21 to June 26

Ecology synthesis of feedback, Summer/Fall 2026

Ecology planning/coordination, Summer/Fall 2026

Continued engagement, as soon as late 2026



Thank you!

Please reach out if you have questions or would like to meet with Ecology to talk more about carbon management.

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