

119TH CONGRESS  
2D SESSION

**S.** \_\_\_\_\_

To require the Secretary of Energy to remove carbon dioxide directly from ambient air or seawater, and for other purposes.

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IN THE SENATE OF THE UNITED STATES

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Mr. COONS (for himself and Mr. WHITEHOUSE) introduced the following bill;  
which was read twice and referred to the Committee on

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## A BILL

To require the Secretary of Energy to remove carbon dioxide directly from ambient air or seawater, and for other purposes.

1 *Be it enacted by the Senate and House of Representa-*  
2 *tives of the United States of America in Congress assembled,*

3 **SECTION 1. SHORT TITLE.**

4 This Act may be cited as the “Carbon Dioxide Re-  
5 moval Leadership Act of 2026”.

6 **SEC. 2. FEDERAL REQUIREMENT TO REMOVE CARBON DI-**  
7 **OXIDE.**

8 (a) DEFINITIONS.—In this section:

9 (1) ELIGIBLE TECHNOLOGY.—

1 (A) IN GENERAL.—The term “eligible  
2 technology” means any equipment, technique,  
3 or technology, as determined by the Secretary,  
4 that—

5 (i) was placed into service after Janu-  
6 ary 1, 2022; and

7 (ii) removes carbon dioxide directly  
8 from ambient air or seawater.

9 (B) EXCLUSION.—The term “eligible tech-  
10 nology” does not include any equipment, tech-  
11 nique, or technology that—

12 (i) removes carbon dioxide that is de-  
13 liberately released from naturally occurring  
14 subsurface springs;

15 (ii) removes carbon dioxide using nat-  
16 ural photosynthesis, except as provided in  
17 subparagraph (C); or

18 (iii) uses captured carbon dioxide in  
19 enhanced oil recovery.

20 (C) EXPANSION OF ELIGIBLE TECH-  
21 NOLOGY.—Notwithstanding subparagraph  
22 (B)(ii), any equipment, technique, or technology  
23 that removes carbon dioxide using gasification,  
24 pyrolysis, or sequestration of solid, nonhaz-  
25 ardous, and cellulosic waste materials may be

1 included in the term “eligible technology” if the  
2 Secretary, by rule—

3 (i) determines that an entity that car-  
4 ries out a removal project under this sec-  
5 tion is able—

6 (I) to adequately measure, mon-  
7 itor, report, and verify the quantity of  
8 greenhouse gas emissions (including  
9 direct emissions and significant indi-  
10 rect emissions), removed using that  
11 equipment, technique, or technology;  
12 and

13 (II) to adequately mitigate the  
14 environmental impacts (including im-  
15 pacts on biodiversity, land use, and  
16 air and water quality) associated with  
17 that equipment, technique, or tech-  
18 nology; and

19 (ii) requires that entity to carry out  
20 the activities described in clause (i).

21 (2) LIFECYCLE BASIS.—The term “lifecycle  
22 basis” means the net sum of all greenhouse gas  
23 emissions (using mass values for all greenhouse  
24 gases that are adjusted to account for their relative  
25 global warming potential, as determined by the Sec-

1       retary in consultation with the Administrator of the  
2       Environmental Protection Agency) associated with  
3       carbon dioxide removal activity from cradle to grave,  
4       including any emissions associated with—

5               (A) energy and feedstock inputs in the car-  
6       bon dioxide removal activity, including inputs in  
7       the distribution and transportation of carbon  
8       dioxide;

9               (B) indirect effects, such as land-use  
10      change, as scientifically justified;

11              (C) the carbon dioxide removal process;

12              (D) carbon dioxide transport and storage,  
13      including any leakage, use, and disposal of any  
14      materials or products associated with that  
15      transport and storage; and

16              (E) embodied emissions of the equipment  
17      used in the carbon dioxide removal activity.

18              (3) REMOVE.—The term “remove”, with re-  
19      spect to carbon dioxide, means to extract carbon di-  
20      oxide from the atmosphere by—

21              (A) capturing carbon dioxide using eligible  
22      technology; and

23              (B) durably storing, on a timescale equiva-  
24      lent to geologic storage, that captured carbon  
25      dioxide—

1 (i) pursuant to a permit issued under  
2 part C of the Safe Drinking Water Act (42  
3 U.S.C. 300h et seq.) for a Class V or Class  
4 VI injection well (as described in section  
5 144.6 of title 40, Code of Federal Regula-  
6 tions (or successor regulations));

7 (ii) in building materials and mineral-  
8 ized carbon materials; or

9 (iii) using other durable storage meth-  
10 ods, as determined by the Secretary.

11 (4) SECRETARY.—The term “Secretary” means  
12 the Secretary of Energy.

13 (5) SMALL REMOVAL PROJECT.—The term  
14 “small removal project” means a project for the re-  
15 moval of carbon dioxide that removes not more than  
16 5 percent of the net metric tons of carbon dioxide  
17 required to be removed under subsection (b) for the  
18 applicable fiscal year.

19 (b) REQUIRED QUANTITIES.—The Secretary shall, to  
20 the extent economically feasible as determined under sub-  
21 section (c), remove—

22 (1) 50,000 net metric tons of carbon dioxide,  
23 calculated on a lifecycle basis, for each of fiscal  
24 years 2026 and 2027;

1           (2) 500,000 net metric tons of carbon dioxide,  
2           calculated on a lifecycle basis, for each of fiscal  
3           years 2028 through 2030;

4           (3) 5,000,000 net metric tons of carbon dioxide,  
5           calculated on a lifecycle basis, for each of fiscal  
6           years 2031 through 2035; and

7           (4) 10,000,000 net metric tons of carbon diox-  
8           ide, calculated on a lifecycle basis, for fiscal year  
9           2036 and each fiscal year thereafter.

10       (c) ECONOMIC FEASIBILITY.—

11           (1) IN GENERAL.—The removal of carbon diox-  
12           ide under subsection (b) shall be considered eco-  
13           nomically feasible if that removal can be accom-  
14           plished or, in the case of a contract under subsection  
15           (i), purchased—

16                   (A) for each of fiscal years 2026 and 2027,  
17                   at a price per metric ton of carbon dioxide of  
18                   not more than \$750 (which the Secretary may  
19                   adjust for inflation);

20                   (B) for each of fiscal years 2028 through  
21                   2030, at a price per metric ton of carbon diox-  
22                   ide of not more than \$500 (which the Secretary  
23                   may adjust for inflation);

24                   (C) for each of fiscal years 2031 through  
25                   2033, at a price per metric ton of carbon diox-

1           ide of not more than \$300 (which the Secretary  
2           may adjust for inflation);

3           (D) for each of fiscal years 2034 through  
4           2036, at a price per metric ton of carbon diox-  
5           ide of not more than \$200 (which the Secretary  
6           may adjust for inflation); and

7           (E) for fiscal year 2037 and each fiscal  
8           year thereafter, at a price per metric ton of car-  
9           bon dioxide of not more than \$150 (which the  
10          Secretary may adjust for inflation).

11          (2) INCLUSION OF MEASUREMENT, MONI-  
12          TORING, REPORTING, AND VERIFICATION COSTS.—In  
13          determining whether the removal of carbon dioxide  
14          is considered economically feasible under paragraph  
15          (1), the price for such removal shall include costs  
16          paid to an independent third party for the measure-  
17          ment, monitoring, reporting, and verification re-  
18          quired under subsection (g)(1).

19          (3) MULTIYEAR CONTRACTS.—The removal of  
20          carbon dioxide carried out pursuant to a contract  
21          entered into under subsection (i) that is a multiyear  
22          contract shall be considered economically feasible if  
23          such removal can be accomplished at the applicable  
24          dollar amount for the first fiscal year of the con-

1       tract, as provided in paragraph (1), through the en-  
2       tire length of the contract.

3       (d) TIMING.—For each fiscal year, the Secretary  
4       shall remove the quantity of carbon dioxide required under  
5       subsection (b) for that fiscal year not later than 3 years  
6       after the beginning of that fiscal year.

7       (e) SMALL REMOVAL PROJECT SET-ASIDE.—To the  
8       extent practicable, at least 20 percent of the net metric  
9       tons of carbon dioxide required to be removed under sub-  
10      section (b) for each of fiscal years 2026 through 2035  
11      shall be removed through small removal projects.

12      (f) FEDERAL ASSISTANCE.—Funds received pursu-  
13      ant to a contract entered into under subsection (i) shall  
14      not be considered Federal assistance or otherwise affect  
15      eligibility for any Federal assistance, including a tax in-  
16      centive.

17      (g) MEASUREMENT, MONITORING, REPORTING, AND  
18      VERIFICATION.—

19           (1) IN GENERAL.—The Secretary, or an entity  
20      with which the Secretary enters into a contract  
21      under subsection (i), shall enter into a contract with  
22      an independent third party to measure, monitor, re-  
23      port, and verify the net metric tons of carbon diox-  
24      ide that the Secretary or the entity, as applicable,  
25      removes for purposes of this section.

1 (2) STANDARDS.—

2 (A) IN GENERAL.—Not later than 1 year  
3 after the date of enactment of this Act, the Sec-  
4 retary, in consultation with the Administrator  
5 of the National Oceanic and Atmospheric Ad-  
6 ministration, the Administrator of the Environ-  
7 mental Protection Agency, the Secretary of Ag-  
8 riculture, the Director of the National Institute  
9 of Standards and Technology, and other rel-  
10 evant Federal agencies, as determined by the  
11 Secretary, shall establish standards for methods  
12 of measuring, monitoring, reporting, and  
13 verifying the net metric tons of carbon dioxide  
14 removed pursuant to this section.

15 (B) CONTENTS.—The standards estab-  
16 lished under subparagraph (A) shall—

17 (i) require the use of best available  
18 practices used by similar carbon dioxide re-  
19 moval projects;

20 (ii) ensure safe, effective, and efficient  
21 removal of carbon dioxide;

22 (iii) ensure additionality, durability,  
23 and net-negativity of carbon dioxide re-  
24 moval;

1 (iv) include criteria to determine  
2 whether the storage of captured carbon di-  
3 oxide is durable;

4 (v) ensure scientifically rigorous and  
5 transparent methods for measurement,  
6 monitoring, reporting, and verifying under  
7 paragraph (1); and

8 (vi) be regularly reviewed and, as nec-  
9 essary, updated to account for scientific  
10 and technological advancements.

11 (3) INDEPENDENT THIRD PARTIES.—An inde-  
12 pendent third party entering into a contract under  
13 paragraph (1) shall be—

14 (A) in compliance with the standards es-  
15 tablished under paragraph (2); and

16 (B) subject to oversight by the Secretary.

17 (4) PROHIBITION ON DOUBLE COUNTING.—Car-  
18 bon dioxide that is removed for the purpose of com-  
19 plying with any other greenhouse gas emissions  
20 management program, including any foreign, Fed-  
21 eral, State, local, or private greenhouse gas emis-  
22 sions management program, as determined by the  
23 Secretary, may not be considered removed under  
24 subsection (b) for purposes of meeting the require-  
25 ments of that subsection.

1 (h) PRIORITIES.—In carrying out removal projects  
2 pursuant to subsection (b), the Secretary shall give pri-  
3 ority to projects based on the degree to which the  
4 project—

5 (1) minimizes the quantity of greenhouse gas  
6 emissions released by carrying out the project;

7 (2) supports the commercialization of innovative  
8 removal technologies that demonstrate—

9 (A) near-term and long-term cost competi-  
10 tiveness relative to similar technologies; and

11 (B) a potential to achieve the economic  
12 feasibility requirements established under sub-  
13 section (c);

14 (3) increases the diversity of commercially  
15 available eligible technologies;

16 (4) provides for domestic job creation, with a  
17 further preference for establishing partnerships with  
18 labor organizations, small businesses, minority-  
19 owned businesses, and women-owned businesses  
20 across value chains;

21 (5) sources supply chain materials domestically;

22 (6) results in economic development or eco-  
23 nomic diversification in regions or localities that  
24 have historically generated significant economic ac-  
25 tivity from the production, processing, transpor-

1       tation, or combustion of fossil fuels, including  
2       through the use of coal mines, fossil fuel-fired elec-  
3       tricity generating units, and petroleum refining fa-  
4       cilities;

5           (7) quantifies and mitigates risks from carbon  
6       dioxide removal activities on, and provides measur-  
7       able co-benefits to, nearby communities and resi-  
8       dents, the environment, agriculture, and public  
9       health, including by—

10           (A) improving local air quality, water qual-  
11       ity, and soil quality;

12           (B) minimizing land, water, and energy  
13       footprints; and

14           (C) using zero-emission energy, to the  
15       maximum extent practicable; and

16       (8) includes robust public engagement and com-  
17       munity benefits, including the use of enforceable  
18       community benefits agreements.

19       (i) CONTRACTS.—

20           (1) IN GENERAL.—The Secretary may, using a  
21       transparent and competitive process, enter into 1 or  
22       more contracts to meet the requirements of sub-  
23       section (b).

1           (2) DURATION.—The duration of a contract en-  
2           tered into under paragraph (1) shall not exceed 15  
3           years.

4           (3) LIMITATION.—To the extent that there is a  
5           sufficient number of entities capable of removing  
6           carbon dioxide in accordance with this section under  
7           a contract entered into paragraph (1), the Secretary  
8           shall ensure that no singular entity is responsible for  
9           removing more than 25 percent of the net metric  
10          tons of carbon dioxide required to be removed under  
11          subsection (b) in any fiscal year.

12          (j) REPORT.—Not later than January 1, 2029, and  
13          every 2 years thereafter, the Secretary shall submit to  
14          Congress, and make publicly available, a report that de-  
15          scribes the progress made in carrying out the require-  
16          ments of this section, including, with respect to the period  
17          covered by the report—

18               (1) the quantities of removed carbon dioxide  
19               verified under subsection (g)(1) and the name of  
20               each independent third party that provided that  
21               verified quantity;

22               (2) the total price, and price per metric ton, of  
23               removing carbon dioxide for each applicable fiscal  
24               year as required under subsection (b);

1           (3) each technology category, the amount of en-  
2           ergy, and each storage mechanism used to remove  
3           carbon dioxide for the applicable fiscal year as re-  
4           quired under subsection (b);

5           (4) each location where carbon dioxide was re-  
6           moved for the applicable fiscal year as required  
7           under subsection (b);

8           (5) the standards established under subsection  
9           (g)(2);

10          (6) an assessment of how the quantities of car-  
11          bon dioxide removed under this section have affected  
12          nearby communities and residents, the environment,  
13          agriculture, and public health;

14          (7) information on any potential labor impacts  
15          and job creation resulting from carrying out the re-  
16          quirements of subsection (b); and

17          (8) an explanation of how the Secretary  
18          prioritized projects under subsection (h).

19          (k) AUTHORIZATION OF APPROPRIATIONS.—There  
20          are authorized to be appropriated such sums as are nec-  
21          essary to carry out this section.

22          **SEC. 3. STUDY ON THE LONG-TERM FUTURE OF FEDERAL**  
23          **CARBON DIOXIDE REMOVAL MANAGEMENT.**

24          (a) IN GENERAL.—Not later than 1 year after the  
25          date of enactment of this Act, the Secretary of Energy,

1 in consultation with the Administrator of the National  
2 Oceanic and Atmospheric Administration, the Adminis-  
3 trator of the Environmental Protection Agency, the Sec-  
4 retary of Agriculture, and other relevant Federal agencies,  
5 as determined by the Secretary of Energy, shall submit  
6 to the Committee on Energy and Natural Resources of  
7 the Senate and the Committee on Energy and Commerce  
8 of the House of Representatives a report that evaluates  
9 and makes recommendations for potential program design  
10 elements and financing options for a Federal carbon diox-  
11 ide removal offtake program that can be scaled to achieve  
12 carbon dioxide removal from the atmosphere and the  
13 oceans at a gigaton scale annually by 2050.

14 (b) CONTENTS.—The report under subsection (a)  
15 shall include consideration of potential management and  
16 organizational structures for the program described in  
17 that subsection, including—

- 18 (1) a government-sponsored enterprise;
- 19 (2) a government corporation;
- 20 (3) a program office within the Department of  
21 Energy or another Federal agency; and
- 22 (4) a contracted service provider.