

118TH CONGRESS  
1ST SESSION

# S. 2002

To establish the Interagency Group on Large-Scale Carbon Management in the National Science and Technology Council and a Federal Carbon Removal Initiative, and for other purposes.

---

## IN THE SENATE OF THE UNITED STATES

JUNE 14, 2023

Ms. SINEMA (for herself, Ms. MURKOWSKI, Mr. WHITEHOUSE, and Mrs. CAPITO) introduced the following bill; which was read twice and referred to the Committee on Commerce, Science, and Transportation

---

## A BILL

To establish the Interagency Group on Large-Scale Carbon Management in the National Science and Technology Council and a Federal Carbon Removal Initiative, 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 Removal, Effi-  
5       cient Agencies, Technology Expertise Act of 2023” or the  
6       “CREATE Act of 2023”.

1 **SEC. 2. INTERAGENCY GROUP ON LARGE-SCALE CARBON**  
2 **MANAGEMENT AND FEDERAL CARBON RE-**  
3 **MOVAL INITIATIVE.**

4 (a) DEFINITION OF CARBON DIOXIDE REMOVAL.—  
5 In this section, the term “carbon dioxide removal” means  
6 the intentional capture of carbon dioxide directly from the  
7 ambient air or upper hydrosphere, combined with the stor-  
8 age of such carbon dioxide, that results in a net removal  
9 of carbon dioxide from the atmosphere, as measured on  
10 a lifecycle basis, including through—

- 11 (1) direct air capture and storage;
- 12 (2) enhanced carbon mineralization;
- 13 (3) biomass-based carbon dioxide removal;
- 14 (4) forest restoration;
- 15 (5) soil carbon management;
- 16 (6) ocean-based carbon dioxide removal; and
- 17 (7) any other approaches or methods identified  
18 by the Interagency Group.

19 (b) INTERAGENCY GROUP ON LARGE-SCALE CARBON  
20 MANAGEMENT.—

21 (1) ESTABLISHMENT.—

22 (A) IN GENERAL.—There is established in  
23 the National Science and Technology Council  
24 an interagency group on matters relating to  
25 large-scale management of carbon.

1 (B) DESIGNATION.—The interagency  
2 group established by subparagraph (A) shall be  
3 known as the “Interagency Group on Large-  
4 Scale Carbon Management” (in this section the  
5 “Interagency Group”).

6 (C) MEMBERSHIP.—

7 (i) COMPOSITION.—The Interagency  
8 Group shall be composed of the members  
9 of the executive committee established  
10 under subsection (c)(1) and such other  
11 members as the executive committee con-  
12 siders appropriate.

13 (ii) COCHAIRPERSONS.—The members  
14 of the executive committee established by  
15 subsection (c)(1) shall be cochairpersons of  
16 the Interagency Group.

17 (iii) EVALUATION AND MODIFICA-  
18 TION.—Not less frequently than once every  
19 3 years, the National Science and Tech-  
20 nology Council shall—

21 (I) evaluate the composition, ex-  
22 ecutive committee, and cochairpersons  
23 of the Interagency Group; and

24 (II) implement such changes re-  
25 garding such composition, executive

1 committee, and cochairpersons as the  
2 Council determines appropriate pursu-  
3 ant to an evaluation under subclause  
4 (I).

5 (2) DUTIES OF THE INTERAGENCY GROUP.—

6 The duties of the Interagency Group shall be as fol-  
7 lows:

8 (A) Developing a strategic plan for Federal  
9 research, development, and demonstration of  
10 technological carbon dioxide removal (CDR)  
11 and storage.

12 (B) Overseeing working groups established  
13 under subsection (d).

14 (C) Coordinating research, project, and  
15 budget planning for matters relating to re-  
16 search, development, and demonstration de-  
17 scribed in subparagraph (A).

18 (D) Identifying cost-effective carbon diox-  
19 ide removal technologies that are suitable for  
20 large-scale demonstration.

21 (E) Identifying accurate monitoring, car-  
22 bon dioxide data collection, and long-term stor-  
23 age protocols for carbon dioxide removal tech-  
24 nologies, and assessing environmental and so-  
25 cial impacts as well as co-benefits.

1 (F) Engaging an independent entity to  
2 perform periodic evaluations of the working  
3 groups established under subsection (d).

4 (c) EXECUTIVE COMMITTEE.—

5 (1) ESTABLISHMENT.—There is established in  
6 the Interagency Group an executive committee.

7 (2) MEMBERSHIP.—The executive committee  
8 established by paragraph (1) shall be composed of  
9 the following:

10 (A) A senior official of the White House  
11 Office of Science and Technology Policy se-  
12 lected by the Director of the Office of Science  
13 and Technology Policy.

14 (B) One senior official of the Department  
15 of Energy selected by the Secretary of Energy.

16 (C) One senior official of the Department  
17 of Agriculture selected by the Secretary of Agri-  
18 culture.

19 (D) One senior official of the Department  
20 of Defense selected by the Secretary of Defense.

21 (E) One senior official of the National  
22 Oceanic and Atmospheric Administration se-  
23 lected by the Administrator of the National  
24 Oceanic and Atmospheric Administration.

1 (F) One senior official of the Environ-  
2 mental Protection Agency selected by the Ad-  
3 ministrator of the Environmental Protection  
4 Agency.

5 (d) WORKING GROUPS AND CARBON REMOVAL INI-  
6 TIATIVE.—

7 (1) ESTABLISHMENT.—

8 (A) IN GENERAL.—The Interagency Group  
9 shall establish working groups in accordance  
10 with paragraph (2) which shall carry out an ini-  
11 tiative on technological and detailed research,  
12 development, and demonstration of carbon diox-  
13 ide removal technology.

14 (B) DESIGNATION OF INITIATIVE.—The  
15 initiative carried out under subparagraph (A)  
16 shall be known as the “Carbon Removal Initia-  
17 tive”.

18 (2) WORKING GROUP FOCI.—The working  
19 groups established under paragraph (1) are as fol-  
20 lows:

21 (A) OCEANS.—

22 (i) IN GENERAL.—One working group  
23 to focus on matters relating to carbon di-  
24 oxide removal from the oceans and coastal  
25 regions.

1 (ii) MEMBERSHIP.—The working  
2 group described in clause (i) shall be com-  
3 posed of 7 members as follows:

4 (I) One individual selected by the  
5 Administrator of the National Oceanic  
6 and Atmospheric Administration from  
7 among employees of the National Ocea-  
8 nic and Atmospheric Administration.

9 (II) One individual selected by  
10 the Administrator of the National  
11 Aeronautics and Space Administration  
12 from among employees of the Na-  
13 tional Aeronautics and Space Admin-  
14 istration.

15 (III) One individual selected by  
16 the Secretary of Defense from among  
17 employees of the Department of De-  
18 fense.

19 (IV) One individual selected by  
20 the Director of the National Science  
21 Foundation from among employees of  
22 the National Science Foundation.

23 (V) Two individuals selected by  
24 the Secretary of the Interior from

1 among employees of the Department  
2 of the Interior.

3 (VI) One individual selected by  
4 the Administrator of the Environ-  
5 mental Protection Agency from among  
6 employees of the Environmental Pro-  
7 tection Agency.

8 (iii) COCHAIRPERSONS.—The individ-  
9 uals selected under subclauses (I) and (IV)  
10 of clause (ii) shall serve as cochairpersons  
11 of the working group established under  
12 clause (i).

13 (B) TERRESTRIAL.—

14 (i) IN GENERAL.—One working group  
15 to focus on terrestrial and biological mat-  
16 ters relating to carbon dioxide removal.

17 (ii) MEMBERSHIP.—The working  
18 group described in clause (i) shall be com-  
19 posed of 6 members as follows:

20 (I) Two individuals, one of whom  
21 shall be selected by the Secretary of  
22 Agriculture from among employees of  
23 the Department of Agriculture and  
24 one of whom shall be selected by the  
25 Chief of the Forest Service from



1 among employees of the Forest Serv-  
2 ice.

3 (II) One individual selected by  
4 the Secretary of Energy from among  
5 employees of the Department of En-  
6 ergy.

7 (III) One individual selected by  
8 the Secretary of the Interior from  
9 among employees of the Department  
10 of the Interior.

11 (IV) One individual selected by  
12 the Director of the National Science  
13 Foundation from among employees of  
14 the National Science Foundation.

15 (V) One individual selected by  
16 the Administrator of the Environ-  
17 mental Protection Agency from among  
18 employees of the Environmental Pro-  
19 tection Agency.

20 (iii) COCHAIRPERSONS.—The individ-  
21 uals selected under subclauses (I) and (II)  
22 of clause (ii) shall serve as cochairpersons  
23 of the working group established under  
24 clause (i).

25 (C) GEOLOGICAL.—

1 (i) IN GENERAL.—One working group  
2 to focus on geological matters relating to  
3 carbon dioxide removal and storage.

4 (ii) MEMBERSHIP.—The working  
5 group described in clause (i) shall be com-  
6 posed of 4 members as follows:

7 (I) One individual selected by the  
8 Secretary of Energy from among em-  
9 ployees of the Department of Energy.

10 (II) One individual selected by  
11 the Secretary of the Interior from  
12 among employees of the United States  
13 Geological Survey.

14 (III) One individual selected by  
15 the Director of the National Science  
16 Foundation from among employees of  
17 the National Science Foundation.

18 (IV) One individual selected by  
19 the Administrator of the Environ-  
20 mental Protection Agency from among  
21 employees of the Environmental Pro-  
22 tection Agency.

23 (iii) COCHAIRPERSONS.—The individ-  
24 uals selected under subclauses (I) and (II)  
25 of clause (ii) shall serve as cochairpersons

1 of the working group established under  
2 clause (i).

3 (D) TECHNOLOGICAL.—

4 (i) IN GENERAL.—One working group  
5 to focus on technological matters relating  
6 to carbon dioxide removal.

7 (ii) MEMBERSHIP.—The working  
8 group described in clause (i) shall be com-  
9 posed of 7 members as follows:

10 (I) One individual selected by the  
11 Secretary of Energy from among em-  
12 ployees of the Department of Energy.

13 (II) One individual selected by  
14 the Secretary of Defense from among  
15 employees of the Department of De-  
16 fense.

17 (III) One individual selected by  
18 the Administrator of the National  
19 Aeronautics and Space Administration  
20 from among employees of the Na-  
21 tional Aeronautics and Space Admin-  
22 istration.

23 (IV) One individual selected by  
24 the Director of the National Science

1 Foundation from among employees of  
2 the National Science Foundation.

3 (V) One individual selected by  
4 the Secretary of Commerce from  
5 among employees of the National In-  
6 stitute of Standards and Technology.

7 (VI) One individual selected by  
8 the Administrator of the Environ-  
9 mental Protection Agency from among  
10 employees of the Environmental Pro-  
11 tection Agency.

12 (VII) One individual selected by  
13 the Secretary of Transportation from  
14 among employees of the Department  
15 of Transportation.

16 (iii) COCHAIRPERSONS.—The individ-  
17 uals selected under subclauses (I) and (III)  
18 of clause (ii) shall serve as cochairpersons  
19 of the working group established under  
20 clause (i).

21 (3) EVALUATION AND MODIFICATION.—Not less  
22 frequently than once every 3 years, the National  
23 Science and Technology Council shall—

24 (A) evaluate the working groups estab-  
25 lished pursuant to paragraph (1); and

1 (B) implement such changes regarding the  
2 working groups as the Council determines ap-  
3 propriate pursuant to an evaluation under sub-  
4 paragraph (A).

5 (e) ANNUAL BUDGET CROSSCUT REVIEW.—

6 (1) IN GENERAL.—Not less frequently than  
7 once each year, the Director of the Office of Man-  
8 agement and Budget shall assist in the coordination  
9 of the initiative carried out under subsection  
10 (d)(1)(A) by conducting a budget crosscut review—

11 (A) to ensure that budget proposals from  
12 members of the working groups established  
13 under such subsection are integrated with the  
14 overall budget for each Federal department and  
15 agency participating in such working groups;  
16 and

17 (B) to ensure that the various staff of the  
18 Office of Management and Budget review and  
19 act on Federal department and agency budget  
20 proposals for research, development, and dem-  
21 onstration of carbon dioxide removal technology  
22 in a holistic fashion.

23 (2) SUBMITTAL TO CONGRESS.—Along with  
24 each submission of the President pursuant to section  
25 1105 of title 31, United States Code, the Director

1 shall submit to Congress a report on the findings of  
2 the Director with respect to the most recently com-  
3 pleted budget crosscut review under paragraph (1).

○