

117TH CONGRESS
1ST SESSION

S. 843

To establish the Committee 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

MARCH 18, 2021

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 Committee 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 2021” or the
6 “CREATE Act of 2021”.

1 **SEC. 2. COMMITTEE ON LARGE-SCALE CARBON MANAGE-**
 2 **MENT AND FEDERAL CARBON REMOVAL INI-**
 3 **TIATIVE.**

4 (a) DEFINITION OF CARBON DIOXIDE REMOVAL.—

5 In this section, the term “carbon dioxide removal” means
 6 the capture of carbon dioxide directly from ambient air
 7 or, in dissolved form, from seawater, combined with the
 8 sequestration of such carbon dioxide, including through—

- 9 (1) direct air capture and sequestration;
- 10 (2) enhanced carbon mineralization;
- 11 (3) bioenergy with carbon capture and seques-
- 12 tration;
- 13 (4) forest restoration;
- 14 (5) soil carbon management; and
- 15 (6) direct ocean capture.

16 (b) COMMITTEE ON LARGE-SCALE CARBON MANAGE-
 17 MENT.—

18 (1) ESTABLISHMENT.—

19 (A) IN GENERAL.—There is established in
 20 the National Science and Technology Council a
 21 committee on matters relating to large-scale
 22 management of carbon.

23 (B) DESIGNATION.—The committee estab-
 24 lished by subparagraph (A) shall be known as
 25 the “Committee on Large-Scale Carbon Man-
 26 agement” (in this section the “Committee”).

1 (C) MEMBERSHIP.—

2 (i) COMPOSITION.—The Committee
3 shall be composed of the members of the
4 executive committee established under sub-
5 section (c)(1) and such other members as
6 the executive committee considers appro-
7 priate.

8 (ii) COCHAIRPERSONS.—The members
9 of the executive committee established by
10 subsection (c)(1) shall be cochairpersons of
11 the Committee.

12 (2) DUTIES OF THE COMMITTEE.—The duties
13 of the Committee shall be as follows:

14 (A) Developing a strategic plan for Federal
15 research, development, and demonstration of
16 technological carbon dioxide removal (CDR)
17 and storage.

18 (B) Overseeing working groups established
19 under subsection (d).

20 (C) Coordinating budget planning with the
21 Federal agencies and budget review with the
22 Office of Management and Budget for matters
23 relating to research, development, and dem-
24 onstration described in subparagraph (A).

1 (D) Identifying cost-effective carbon diox-
2 ide removal technologies that are suitable for
3 large-scale demonstration.

4 (E) Identifying accurate monitoring, car-
5 bon dioxide data collection, and long-term stor-
6 age protocols for carbon dioxide removal tech-
7 nologies.

8 (F) Overseeing independent evaluations of
9 performance of the working groups established
10 under subsection (d).

11 (c) EXECUTIVE COMMITTEE.—

12 (1) ESTABLISHMENT.—There is established in
13 the Committee an executive committee.

14 (2) MEMBERSHIP.—The executive committee
15 shall be composed of the following:

16 (A) The Associate Director for Science of
17 the Office of Science and Technology Policy.

18 (B) One senior official of the Department
19 of Energy selected by the Secretary of Energy.

20 (C) One senior official of the Department
21 of Agriculture selected by the Secretary of Agri-
22 culture.

23 (D) One senior official of the Department
24 of Defense selected by the Secretary of Defense.

1 (E) One senior official of the National
 2 Oceanic and Atmospheric Administration se-
 3 lected by the Administrator of the National
 4 Oceanic and Atmospheric Administration.

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

7 (1) ESTABLISHMENT.—

8 (A) IN GENERAL.—The Committee shall
 9 establish working groups which shall carry out
 10 an initiative on technological and detailed re-
 11 search, development, and demonstration of car-
 12 bon dioxide removal technology.

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

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

20 (A) OCEANS.—

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

1 (ii) MEMBERSHIP.—The working
2 group described in clause (i) shall be com-
3 posed of 8 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 Oce-
8 anic 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

among employees of the Forest Service.

(II) One individual selected by the Secretary of Energy from among employees of the Department of Energy.

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

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

(V) One individual selected by the Administrator of the Environmental Protection Agency from among employees of the Environmental Protection Agency.

(iii) COCHAIRPERSONS.—The individuals selected under subclauses (I) and (II) of clause (ii) shall serve as cochairpersons of the working group established under clause (i).

(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 (e) ANNUAL BUDGET CROSSCUT REVIEW.—

22 (1) IN GENERAL.—Not less frequently than
23 once each year, the Director of the Office of Man-
24 agement and Budget shall assist in the coordination

1 of the initiative carried out under subsection
2 (d)(1)(A) by conducting a budget crosscut review—

3 (A) to ensure that budget proposals from
4 members of the working groups established
5 under such subsection are integrated with the
6 overall budget for each Federal department and
7 agency participating in such working groups;
8 and

9 (B) to ensure that the various staff of the
10 Office of Management and Budget review and
11 act on Federal department and agency budget
12 proposals for research, development, and dem-
13 onstration of carbon dioxide removal technology
14 in a holistic fashion.

15 (2) SUBMITTAL TO CONGRESS.—Along with
16 each submission of the President pursuant to section
17 1105 of title 31, United States Code, the Director
18 shall submit to Congress a report on the findings of
19 the Director with respect to the most recently com-
20 pleted budget crosscut review under paragraph (1).

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