

117TH CONGRESS  
1ST SESSION

# H. R. 2639

To establish forest conservation practices through management, reforestation, and utilization which lead to the sequestration of greenhouse gases, and for other purposes.

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## IN THE HOUSE OF REPRESENTATIVES

APRIL 19, 2021

Mr. WESTERMAN (for himself, Mr. MCCARTHY, Mr. SCHRADER, Mr. AMODEI, Mr. ARMSTRONG, Mr. BACON, Mr. BAIRD, Mr. BARR, Mr. BENTZ, Mr. BISHOP of Georgia, Mr. BURCHETT, Mr. CALVERT, Mr. CARL, Mr. CARTER of Georgia, Ms. CHENEY, Mr. COLE, Mr. CRAWFORD, Mr. CRENSHAW, Mr. CUELLAR, Mr. CURTIS, Mr. RODNEY DAVIS of Illinois, Mrs. FISCHBACH, Mr. FORTENBERRY, Ms. FOXX, Mr. FULCHER, Mr. GONZALEZ of Ohio, Miss GONZÁLEZ-COLÓN, Mr. GOSAR, Ms. GRANGER, Mr. GRAVES of Louisiana, Ms. HERRELL, Mr. HIGGINS of Louisiana, Mr. HILL, Mr. JOHNSON of South Dakota, Mr. JOYCE of Ohio, Mr. KELLY of Mississippi, Mrs. KIM of California, Mr. LAMBORN, Mr. LATTA, Mrs. LESKO, Mr. LUCAS, Ms. MACE, Ms. MALLIOTAKIS, Mr. MANN, Mr. MCCAUL, Mrs. RODGERS of Washington, Mr. MELJER, Mr. MEUSER, Mrs. MILLER-MEEKS, Mr. MOORE of Utah, Mr. NEWHOUSE, Mr. NUNES, Mr. OBERNOLTE, Mr. OWENS, Mrs. RADEWAGEN, Mr. ROGERS of Alabama, Mr. ROUZER, Mr. AUSTIN SCOTT of Georgia, Mr. SIMPSON, Mr. STAUBER, Ms. STEFANIK, Mr. STEWART, Mr. STIVERS, Mr. THOMPSON of Pennsylvania, Mr. TIFFANY, Mr. VALADAO, Mr. WEBER of Texas, Mr. WEBSTER of Florida, Mr. WILSON of South Carolina, Mr. WITTMAN, Mr. WOMACK, Mr. YOUNG, and Mr. RESCHENTHALER) introduced the following bill; which was referred to the Committee on Agriculture, and in addition to the Committees on Foreign Affairs, Natural Resources, Ways and Means, Science, Space, and Technology, and Education and Labor, for a period to be subsequently determined by the Speaker, in each case for consideration of such provisions as fall within the jurisdiction of the committee concerned

# A BILL

To establish forest conservation practices through management, reforestation, and utilization which lead to the sequestration of greenhouse gases, 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; TABLE OF CONTENTS.**

4 (a) SHORT TITLE.—This Act may be cited as the  
 5 “Trillion Trees Act”.

6 (b) TABLE OF CONTENTS.—The table of contents for  
 7 this Act are as follows:

Sec. 1. Short title; table of contents.

Sec. 2. Definitions.

TITLE I—CARBON SEQUESTRATION THROUGH REFORESTATION  
 ACTIVITIES

Subtitle A—Reforestation Goals

Sec. 101. National forest carbon stock targets.

Sec. 102. Trillion Trees Task Force.

Sec. 103. Philanthropic Reforestation Advisory Council.

Sec. 104. Trillion Trees Challenge Fund.

Sec. 105. Renewable resource assessment update and lifecycle analysis.

Sec. 106. Forest inventory and analysis.

Sec. 107. National Forest Foundation activities.

Subtitle B—Regeneration

Sec. 111. Reforestation programs.

Sec. 112. Reforestation trust fund.

Sec. 113. Solving shortages for seedlings.

Sec. 114. Healthy forest reserve program.

Sec. 115. Forestry education and workforce development grant program.

Sec. 116. Civilian Conservation Centers reforestation activities.

Sec. 117. Forest technology enhancements for conservation and habitat improvement.

Subtitle C—Urban Forests

Sec. 121. Urban and community forestry assistance.

Sec. 122. Civilian Conservation Center urban forestry demonstration program.

Sec. 123. Memorandum of understanding to coordinate urban forestry programs.

Subtitle D—International Forests

Sec. 131. Sense of Congress.  
 Sec. 132. International Forest Foundation.  
 Sec. 133. International engagement.  
 Sec. 134. Global climate change program.  
 Sec. 135. International forestry cooperation.  
 Sec. 136. Modifications to authorities relating to tropical forests.

TITLE II—CARBON SEQUESTRATION THROUGH IMPROVED  
 FOREST MANAGEMENT ACTIVITIES

Sec. 201. Land use planning; supplements to programmatic environmental impact statements.  
 Sec. 202. Forest carbon stock on State and private forests.  
 Sec. 203. Good neighbor authority.  
 Sec. 204. Research and development programs.

TITLE III—MARKET INCENTIVES FOR CARBON SEQUESTRATION

Sec. 301. Biochar demonstration project and grant program.  
 Sec. 302. Sustainable building and residence credit.  
 Sec. 303. Clarification of research and development program for cellulosic biochemical and bioplastics.  
 Sec. 304. Tribal and Alaska Native biomass demonstration project extension.

1 **SEC. 2. DEFINITIONS.**

2 In this Act:

3 (1) **AFFORESTATION.**—The term  
 4 “afforestation” means a project or activity to estab-  
 5 lish a forest or stand of native trees in an ecosystem  
 6 where there is not a forest or tree cover, consistent  
 7 with the best available science.

8 (2) **FOREST CARBON FLUX.**—The term “forest  
 9 carbon flux” means the net annual change in carbon  
 10 residing within forest carbon pools and in forest car-  
 11 bon stock.

12 (3) **FOREST CARBON POOLS.**—The term “forest  
 13 carbon pools” means the individual, nonoverlapping

1 categories where forest carbon resides and in-  
2 cludes—

3 (A) aboveground biomass, belowground  
4 biomass, dead wood, litter, and mineral and or-  
5 ganic soils in forest ecosystems, woodlands, and  
6 trees outside forests including urban trees; and

7 (B) harvested wood products (in use or in  
8 solid waste disposal sites).

9 (4) FOREST CARBON STOCK.—The term “forest  
10 carbon stock” means the absolute quantity of carbon  
11 stored within all forest carbon pools.

12 (5) FOREST PLAN.—The term “forest plan”  
13 means—

14 (A) a land use plan prepared by the Bu-  
15 reau of Land Management for public lands pur-  
16 suant to section 202 of the Federal Land Policy  
17 and Management Act of 1976 (43 U.S.C.  
18 1712); or

19 (B) a land and resource management plan  
20 prepared by the Forest Service for a unit of the  
21 National Forest System pursuant to section 6  
22 of the Forest and Rangeland Renewable Re-  
23 sources Planning Act of 1974 (16 U.S.C.  
24 1604).

1           (6) FOREST MANAGEMENT ACTIVITY.—The  
2 term “forest management activity” means a project  
3 or activity carried out by the Secretary concerned on  
4 National Forest System lands or public lands con-  
5 sistent with the forest plan covering the lands.

6           (7) NATIONAL FOREST SYSTEM.—The term  
7 “National Forest System” has the meaning given  
8 that term in section 11(a) of the Forest and Range-  
9 land Renewable Resources Planning Act of 1974 (16  
10 U.S.C. 1609(a)).

11           (8) PUBLIC LANDS.—The term “public lands”  
12 has the meaning given that term in section 103 of  
13 the Federal Land Policy and Management Act of  
14 1976 (43 U.S.C. 1702).

15           (9) REFORESTATION.—The term “reforest-  
16 ation” means the act of renewing tree cover by es-  
17 tablishing young trees through natural regeneration,  
18 natural regeneration with site preparation, or plant-  
19 ing.

20           (10) SECRETARY.—The term “Secretary”  
21 means the Secretary of Agriculture.

22           (11) SECRETARY CONCERNED.—The term  
23 “Secretary concerned” means—

24                   (A) the Secretary of Agriculture, with re-  
25 spect to National Forest System lands; and

1 (B) the Secretary of the Interior, with re-  
2 spect to public lands.

3 (12) SECRETARIES.—The term “Secretaries”  
4 means the Secretary of Agriculture and the Sec-  
5 retary of Interior.

6 **TITLE I—CARBON SEQUESTRA-**  
7 **TION THROUGH REFOREST-**  
8 **ATION ACTIVITIES**

9 **Subtitle A—Reforestation Goals**

10 **SEC. 101. NATIONAL FOREST CARBON STOCK TARGETS.**

11 (a) IN GENERAL.—Not later than 2 years after the  
12 date of the enactment of this Act, the Secretary shall set  
13 targets for increased forest carbon stock for the purposes  
14 of sequestering and storing carbon while meeting other re-  
15 source management objectives. Such targets shall—

16 (1) be based on the best available scientific in-  
17 formation;

18 (2) consider both natural and artificial regen-  
19 eration, with an emphasis on the regeneration of na-  
20 tive species;

21 (3) be established at levels, consistent with  
22 other statutory management purposes on Federal  
23 lands, which represent the optimal feasible and sus-  
24 tainable increase in the forest carbon stock private,  
25 State, Tribal, and Federal landowners can achieve

1 by January 1, 2030, and every 10 years thereafter  
2 through January 1, 2100;

3 (4) be informed by the report provided by the  
4 Trillion Trees Task Force established in section 102;

5 (5) incorporate data from the forest inventory  
6 and analysis program under section 3(e) of the For-  
7 est and Rangeland Renewable Resources Research  
8 Act of 1978 (16 U.S.C. 1642(e)) and other applica-  
9 ble Federal agency data;

10 (6) be consistent with multiple use and sus-  
11 tained yield requirements, policies, and objectives on  
12 National Forest, State, Tribal, and other public or  
13 private land;

14 (7) be consistent with other benefits related to  
15 forest function and health including soil health and  
16 productivity, wildlife habitat and biodiversity, im-  
17 proved air and water quality, job creation, outdoor  
18 recreation, and forest products and byproducts;

19 (8) be established at levels that account for—

20 (A) long-term and short-term carbon se-  
21 questration and storage;

22 (B) forest carbon flux; and

23 (C) assessments of existing forested acres,  
24 considering variations in landscape;

1           (9) incorporate input from State, Tribal, and  
2 local stakeholders and members of the public; and

3           (10) be published in the Federal Register, to-  
4 gether with a statement of the basis and justification  
5 for such targets.

6           (b) NATURAL REGENERATION.—In this subsection,  
7 the term “natural regeneration” means the establishment  
8 of a tree or tree age class from natural seedling, sprouting,  
9 or suckering, in accordance with the management objec-  
10 tives of an applicable forest plan.

11          (c) CLARIFICATION.—Nothing in this section shall be  
12 construed to establish any requirements with respect to  
13 private landowners.

14 **SEC. 102. TRILLION TREES TASK FORCE.**

15          (a) ESTABLISHMENT.—Not later than 6 months after  
16 the date of the enactment of this section, the Secretary  
17 shall establish the Trillion Trees Task Force (in this sec-  
18 tion referred to as the “task force”) to assist the Secretary  
19 with meeting the targets and purposes established under  
20 section 101(a).

21          (b) DUTIES OF THE TASK FORCE.—

22               (1) REPORT.—Not later than 1 year after the  
23 date the task force is established under subsection  
24 (a), the task force shall submit to the Secretary a  
25 report that includes—



1 (A) recommendations for the national for-  
2 est carbon stock targets established under sec-  
3 tion 101;

4 (B) plant growth targets, including long-  
5 term growth targets, required to achieve the na-  
6 tional forest carbon stock targets established  
7 under section 101, taking into account—

8 (i) forest carbon flux;

9 (ii) multiple use and sustained yield  
10 requirements, policies, and objectives;

11 (iii) natural regeneration;

12 (iv) adverse natural and anthropo-  
13 genic disturbances; and

14 (v) other factors impacting domestic  
15 forestlands; and

16 (C) program and policy recommendations  
17 designed to achieve the national forest carbon  
18 stock targets established under section 101,  
19 while—

20 (i) still maintaining sustainable levels  
21 of board feet harvested from public lands;

22 (ii) promoting forest products mar-  
23 kets, including for new and innovative for-  
24 est products and byproducts; and

1 (iii) improving the natural regenera-  
2 tion of public and private forests (with an  
3 emphasis on the regeneration of native spe-  
4 cies) through active forest management.

5 (2) OVERSIGHT.—Following the submission of  
6 the report described in paragraph (1), the task force  
7 shall provide continued oversight of the implementa-  
8 tion of the national forest carbon stock targets, and  
9 provide the Secretary with—

10 (A) yearly reports on the progress made  
11 towards achieving the national forest carbon  
12 stock targets established under section 101; and

13 (B) ongoing program and policy rec-  
14 ommendations designed to achieve the national  
15 forest carbon stock targets established under  
16 section 101.

17 (3) REPORTS TO CONGRESS.—The task force  
18 shall—

19 (A) submit to Congress a copy of the re-  
20 port under paragraph (1); and

21 (B) not later than 2 years after the report  
22 under paragraph (1) is submitted to the Sec-  
23 retary and Congress, and every 5 years there-  
24 after, submit a report to Congress on the imple-

1           mentation of, and progress towards meeting,  
2           the targets set under section 101.

3           (c) MEMBERSHIP.—

4           (1) APPOINTMENT.—The task force shall con-  
5           sist of 15 ex officio members and 15 discretionary  
6           members.

7           (A) EX OFFICIO MEMBERS.—The Presi-  
8           dent shall appoint 15 representatives from the  
9           executive branch.

10          (B) DISCRETIONARY MEMBERS.—The Sec-  
11          retary shall appoint 1 discretionary member  
12          from each of the following:

13                 (i) A State land management agency.

14                 (ii) A private forest landowner with  
15                 total land holdings of greater than  
16                 1,000,000 acres.

17                 (iii) A private forest landowner with  
18                 total land holdings of less than 1,000,000  
19                 acres.

20                 (iv) A family forest landowner.

21                 (v) A pulp or paper manufacturer  
22                 which receives wood fiber directly or indi-  
23                 rectly from Federal timber for a portion of  
24                 their fiber supply.

1 (vi) A sawmill or engineered wood  
2 producer which relies on the sale of Fed-  
3 eral timber for at least 25 percent of their  
4 fiber supply.

5 (vii) An energy company, cooperative,  
6 pellet fuel producer, or utility which pro-  
7 vides customers with energy at least par-  
8 tially derived from the combustion of wood  
9 biomass.

10 (viii) A land conservation nonprofit  
11 with previous experience in collaborative  
12 forestland restoration projects greater than  
13 100,000 acres.

14 (ix) A Tribal land management agen-  
15 cy or resource management organization  
16 with previous experience managing Tribal  
17 timberland.

18 (x) A wildlife conservation nonprofit  
19 with previous experience in collaborative  
20 forestland restoration projects greater than  
21 100,000 acres.

22 (xi) An entity with experience in wild-  
23 life habitat restoration projects less than  
24 100,000 acres.

1                   (xii) An urban or community resource  
2                   conservation organization, with previous  
3                   experience in urban and community refo-  
4                   restation projects.

5                   (xiii) An organization with previous  
6                   experience in projects of any size that in-  
7                   crease public access or outdoor recreation  
8                   opportunities on National Forest System  
9                   lands.

10                  (xiv) A company or organization with  
11                  experience in sustainable buildings or mass  
12                  timber construction.

13                  (xv) An academic or scientific institu-  
14                  tion with experience researching forest car-  
15                  bon stock in domestic forests.

16                  (2) DISCRETIONARY MEMBER TERMS.—

17                         (A) APPOINTMENT AND REMOVAL.—Each  
18                         discretionary member appointed to the task  
19                         force under paragraph (1)(B) may be appointed  
20                         and removed at the discretion of the Secretary.

21                         (B) VACANCY.—A discretionary member  
22                         that is removed under subparagraph (A) shall  
23                         be replaced not later than 6 months after such  
24                         removal.

25                  (3) QUORUM.—

1 (A) IN GENERAL.—A quorum shall consist  
2 of 10 ex officio members and 10 discretionary  
3 members of the task force.

4 (B) DECISIONS.—Decisions of the task  
5 force shall be made by majority vote, a quorum  
6 being present.

7 (4) PRESERVATION OF PUBLIC ADVISORY STA-  
8 TUS.—No individual may be appointed to the task  
9 force as a discretionary member under paragraph  
10 (1)(B) while serving as an officer or employee of the  
11 Federal Government.

12 (5) PAY AND EXPENSES.—

13 (A) COMPENSATION.—

14 (i) FEDERAL EMPLOYEE MEMBERS.—  
15 All members of the task force who are offi-  
16 cers or employees of the United States  
17 shall serve without compensation in addi-  
18 tion to that received for their services as  
19 officers or employees of the United States.

20 (ii) NON-FEDERAL EMPLOYEE MEM-  
21 BERS.—All members of the task force not  
22 described in clause (i) shall serve without  
23 compensation.

24 (B) REIMBURSEMENT.—A member of the  
25 task force may be reimbursed for travel and

1 lodging incurred while attending a meeting of  
2 the task force or any other meeting of members  
3 approved for reimbursement by the task force  
4 in the same amounts and under the same condi-  
5 tions as Federal employees under section 5703  
6 of title 5, United States Code.

7 (C) EXPENSES.—The expenses of the task  
8 force that the Secretary determines to be rea-  
9 sonable and appropriate shall be paid by the  
10 Secretary.

11 (6) ADMINISTRATIVE SUPPORT, TECHNICAL  
12 SERVICES, AND STAFF SUPPORT.—The Secretary  
13 shall make personnel of the Department of Agri-  
14 culture available to the task force for administrative  
15 support, technical services, and staff support that  
16 the Secretary determines necessary to carry out this  
17 section.

18 (d) FEDERAL ADVISORY COMMITTEE ACT.—The  
19 Federal Advisory Committee Act (5 U.S.C. App.) shall not  
20 apply to the task force.

21 **SEC. 103. PHILANTHROPIC REFORESTATION ADVISORY**  
22 **COUNCIL.**

23 (a) ESTABLISHMENT.—There is hereby established  
24 the Philanthropic Reforestation Advisory Council (in this

1 section referred to as the “Advisory Council”) to advise  
2 the Secretary on—

- 3 (1) increasing private charitable investment in  
4 reforestation and afforestation activities; and  
5 (2) tracking private charitable reforestation and  
6 afforestation pledges and metrics.

7 (b) DUTIES OF THE ADVISORY COUNCIL.—

8 (1) REPORT.—Not later than 1 year after the  
9 date of the enactment of this section, the Advisory  
10 Council shall submit to the Secretary a report that  
11 includes recommendations for—

12 (A) increasing and encouraging private  
13 charitable investments in reforestation and  
14 afforestation activities; and

15 (B) developing a platform to track private  
16 charitable tree planting pledges and metrics.

17 (2) CONSULTATION.—The Secretary shall con-  
18 sult with the Advisory Council when developing the  
19 list of projects to be funded from the Trillion Trees  
20 Challenge Fund established under section 104.

21 (3) REPORTS TO CONGRESS.—The Advisory  
22 Council shall annually submit to Congress—

23 (A) a copy of the report under paragraph  
24 (1); and



1 (B) a list of projects the Advisory Council  
2 recommended be funded under paragraph (2)  
3 and whether or not those projects were funded.

4 (c) MEMBERSHIP.—

5 (1) APPOINTMENT.—The Advisory Council shall  
6 consist of 2 ex officio members and 15 discretionary  
7 members.

8 (A) EX OFFICIO MEMBERS.—The ex officio  
9 members of the Advisory Council, or their des-  
10 ignees, are—

11 (i) the Secretary of Agriculture; and

12 (ii) the Secretary of the Interior.

13 (B) DISCRETIONARY MEMBERS.—The Sec-  
14 retary shall appoint discretionary members  
15 from each of the following:

16 (i) One from each of not more than 5  
17 companies or corporations that have made  
18 public charitable tree planting pledges.

19 (ii) One from each of not more than  
20 5 philanthropic organizations with experi-  
21 ence in financing reforestation and  
22 afforestation activities.

23 (iii) One from each of not more than  
24 5 non-profit organizations with experience  
25 in reforestation and afforestation activities.

1           (2) DISCRETIONARY MEMBER TERMS.—Each  
2 discretionary member appointed to the Advisory  
3 Council under paragraph (1)(B) may be appointed  
4 and removed at the discretion of the Secretary.

5           (3) QUORUM.—

6           (A) IN GENERAL.—A quorum shall consist  
7 of 12 members of the Advisory Council.

8           (B) DECISIONS.—Decisions of the Advi-  
9 sory Council shall be made by majority vote, a  
10 quorum being present.

11          (4) PRESERVATION OF PUBLIC ADVISORY STA-  
12 TUS.—No individual may be appointed to the Advi-  
13 sory Council as a discretionary member under para-  
14 graph (1)(B) while serving as an officer or employee  
15 of the Federal Government.

16          (5) PAY AND EXPENSES.—

17           (A) COMPENSATION.—

18           (i) FEDERAL EMPLOYEE MEMBERS.—

19           All members of the Advisory Council who  
20 are officers or employees of the United  
21 States shall serve without compensation in  
22 addition to that received for their services  
23 as officers or employees of the United  
24 States.

1                   (ii) NON-FEDERAL EMPLOYEE MEM-  
2                   BERS.—All members of the Advisory Coun-  
3                   cil not described in clause (i) shall serve  
4                   without compensation.

5                   (B) REIMBURSEMENT.—A member of the  
6                   Advisory Council may be reimbursed for travel  
7                   and lodging incurred while attending a meeting  
8                   of the Advisory Council or any other meeting of  
9                   members approved for reimbursement by the  
10                  Advisory Council in the same amounts and  
11                  under the same conditions as Federal employees  
12                  under section 5703 of title 5, United States  
13                  Code.

14                  (C) EXPENSES.—The expenses of the Ad-  
15                  visory Council that the Secretary determines to  
16                  be reasonable and appropriate shall be paid by  
17                  the Secretary.

18                  (6) ADMINISTRATIVE SUPPORT, TECHNICAL  
19                  SERVICES, AND STAFF SUPPORT.—The Secretary  
20                  shall make personnel of the Department of Agri-  
21                  culture available to the Advisory Council for admin-  
22                  istrative support, technical services, and staff sup-  
23                  port that the Secretary determines necessary to  
24                  carry out this section.

1           (7) FEDERAL ADVISORY COMMITTEE ACT.—The  
2       Federal Advisory Committee Act (5 U.S.C. App.)  
3       shall not apply to Advisory Council.

4 **SEC. 104. TRILLION TREES CHALLENGE FUND.**

5       (a) ESTABLISHMENT.—

6           (1) IN GENERAL.—There is established in the  
7       Treasury a fund to be known as the “Trillion Trees  
8       Challenge Fund”.

9           (2) DEPOSITS.—For each of fiscal years 2021  
10       through 2030, there is appropriated, out of any  
11       money in the Treasury not otherwise appropriated,  
12       \$10,000,000, which shall be deposited into the Tril-  
13       lion Trees Challenge Fund and remain available  
14       until expended.

15          (3) USE OF FUNDS.—Amounts deposited into  
16       the Trillion Trees Challenge Fund—

17           (A) shall be used by the Secretary to make  
18       grants, in consultation with the Philanthropic  
19       Reforestation Advisory Council, to eligible enti-  
20       ties to carry out eligible projects described in  
21       subsection (b)(1); and

22           (B) may only be used if matched by the el-  
23       igible entity carrying out the eligible project, on  
24       at least a 1-to-1 basis, by non-Federal funds.

25          (4) PUBLIC DONATIONS.—

1 (A) IN GENERAL.—For purposes of mak-  
2 ing grants under this section, the Secretary  
3 may accept cash or in-kind donations.

4 (B) CREDITS TO FUND.—Any cash dona-  
5 tion accepted pursuant to subparagraph (A)  
6 shall be credited to, and form a part of, the  
7 Fund.

8 (b) ELIGIBLE PROJECTS.—

9 (1) IN GENERAL.—An eligible project described  
10 in this paragraph is an activity carried out by an eli-  
11 gible entity related to reforestation or conserving,  
12 managing, maintaining, and monitoring trees on  
13 State, Tribal, municipal, or private lands for the  
14 purpose of increasing forest carbon stock.

15 (2) LIST.—The Secretary shall—

16 (A) annually develop a list of eligible  
17 projects to be funded from the Trillion Trees  
18 Challenge Fund, in consultation with the Phil-  
19 anthropic Reforestation Advisory Council; and

20 (B) submit the list developed pursuant to  
21 subparagraph (A) to—

22 (i) the Committees on Agriculture,  
23 Nutrition, and Forestry and Energy and  
24 Natural Resources of the Senate; and

1 (ii) the Committees on Agriculture  
2 and Natural Resources of the House of  
3 Representatives; and

4 (C) publish such list annually in the Fed-  
5 eral Register.

6 (3) UPDATES.—The Secretary may add an eli-  
7 gible project to the list described in subparagraph  
8 (A) of paragraph (2) and submit such addition in  
9 accordance with subparagraph (B) of such para-  
10 graph.

11 (4) PROPOSALS.—To be eligible to receive fund-  
12 ing under this section, an eligible entity shall submit  
13 to the Secretary a proposal at such time, in such  
14 manner, and containing such information as the Sec-  
15 retary may require.

16 (c) SUMMARY TO CONGRESS.—The Secretary shall  
17 include in the budget materials submitted to Congress in  
18 support of the President’s annual budget request (sub-  
19 mitted to Congress pursuant to section 1105 of title 31,  
20 United States Code) for each fiscal year a summary of  
21 the status and funding of eligible projects under this sec-  
22 tion.

23 (d) DEFINITIONS.—In this section—

24 (1) ELIGIBLE ENTITY.—The term “eligible enti-  
25 ty” means—

- 1 (A) a State, local, or Tribal government;
- 2 (B) a non-profit organization or edu-
- 3 cational institution;
- 4 (C) an individual; or
- 5 (D) other non-Federal entities, as deter-
- 6 mined by the Secretary.

7 (2) PHILANTHROPIC REFORESTATION ADVISORY

8 COUNCIL.—The term “Philanthropic Reforestation

9 Advisory Council” means to the Advisory Council es-

10 tablished under section 103 of the Trillion Trees

11 Act.

12 **SEC. 105. RENEWABLE RESOURCE ASSESSMENT UPDATE**

13 **AND LIFECYCLE ANALYSIS.**

14 (a) RENEWABLE RESOURCE ASSESSMENT.—Section

15 3 of the Forest and Rangeland Renewable Resources Plan-

16 ning Act of 1974 (16 U.S.C. 1601) is amended—

17 (1) in subsection (a)—

18 (A) in paragraph (5), by striking “and” at

19 the end;

20 (B) by striking paragraph (6) and insert-

21 ing the following:

22 “(6) an analysis of the rural and urban forestry

23 opportunities to mitigate the buildup of atmospheric

24 carbon, reduce the risk of global climate change,

25 capture and store atmospheric carbon, and optimize

1 forest carbon stock (as defined in section 2 of the  
2 Trillion Trees Act) in domestic forests; and”;

3 (C) by adding at the end the following:

4 “(7) an analysis of the forest carbon stock (as  
5 defined in section 2 of the Trillion Trees Act) poten-  
6 tial of domestic forests based upon the lifecycle anal-  
7 ysis established under section 105(c) of the Trillion  
8 Trees Act.”;

9 (2) in subsection (c)—

10 (A) in paragraph (2), by striking “and” at  
11 the end;

12 (B) in paragraph (3), by striking the pe-  
13 riod at the end and inserting “; and”;

14 (C) by adding at the end the following:

15 “(4) the potential to increase forest carbon  
16 stock (as defined in section 2 of the Trillion Trees  
17 Act) through the utilization of harvested wood prod-  
18 ucts, including recommendations to Congress for ac-  
19 tions which would lead to increased forest carbon  
20 stock through the utilization of such materials.”;  
21 and

22 (3) in the first subsection (d), by inserting “and  
23 other stakeholders” after “agencies”.



1 (b) RENEWABLE RESOURCE PROGRAM.—Section 4 of  
2 the Forest and Rangeland Renewable Resources Planning  
3 Act of 1974 (16 U.S.C. 1602) is amended—

4 (1) in the first sentence—

5 (A) by inserting “Nation’s forests, includ-  
6 ing the” before “National Forest System”;

7 (B) by inserting “and Congress” after  
8 “transmitted to the President”; and

9 (C) by inserting “and development pro-  
10 grams” after “for research”;

11 (2) by striking the “The Program shall include,  
12 but not be limited to” and inserting “The Program  
13 shall be prepared and transmitted to the President  
14 and Congress not later than 2 years after the date  
15 of the enactment of the Trillion Trees Act and every  
16 2 years thereafter, and shall include, but not be lim-  
17 ited to”;

18 (3) by amending paragraph (1) to read as fol-  
19 lows:

20 “(1) an inventory of specific investment needs  
21 and opportunities for both public and private pro-  
22 gram investments that—

23 “(A) differentiates between—

1 “(i) activities which are of a capital  
2 nature and those which are of an oper-  
3 ational nature; and

4 “(ii) investments required to support  
5 existing policies and programs and those  
6 required to create and implement new poli-  
7 cies and programs; and

8 “(B) identifies—

9 “(i) Federal and State policies that, if  
10 left unchanged in the succeeding 50 years,  
11 would create undesirable impacts on for-  
12 ests and communities; and

13 “(ii) alternatives to the policies de-  
14 scribed in clause (i) that if implemented in  
15 the 10 succeeding years would mitigate  
16 such undesirable impacts;”;

17 (4) in paragraph (2)—

18 (A) by inserting “and policy options” after  
19 “Program outputs”;

20 (B) by inserting “or State governments”  
21 after “Federal Government”;

22 (5) in paragraph (3), by inserting “and imple-  
23 mentation of identified policy options” after “Pro-  
24 gram opportunities”;

25 (6) in paragraph (5)—

1 (A) in the matter preceding subparagraph  
2 (A), by inserting “and policy options” before  
3 “which”;

4 (B) in subparagraph (B), by inserting  
5 “and services” after “products”;

6 (C) in subparagraph (D), by striking  
7 “state national goals” and inserting “State na-  
8 tional goals that the policy options are intended  
9 to achieve and”;

10 (D) in subparagraph (E), by striking  
11 “and” at the end;

12 (E) in subparagraph (F)—

13 (i) by inserting “the health and resil-  
14 iency of forests, forest carbon stock (as de-  
15 fined in section 2 of the Trillion Trees  
16 Act), and” before “forest and rangeland” ;  
17 and

18 (ii) by striking the period and insert-  
19 ing “; and”; and

20 (F) by adding at the end the following:

21 “(G) account for the effects of trees in  
22 urban and community areas in addition to for-  
23 ests in rural areas.”.

24 (c) LIFECYCLE ANALYSIS.—

1           (1) LIFECYCLE STORAGE MODEL.—As a part of  
2 the assessment established under section 3 of the  
3 Forest and Rangeland Renewable Planning Act of  
4 1974 (16 U.S.C. 1601) the Secretary shall develop  
5 interdisciplinary computational models using all  
6 available data to—

7           (A) evaluate the lifecycle forest carbon  
8 stock potential associated with domestic  
9 forestland; and

10           (B) provide projections, scenario planning,  
11 and policy options associated with such models.

12           (2) CONSIDERATIONS.—In developing the model  
13 under paragraph (1), the Secretary shall consider—

14           (A) the best available science;

15           (B) data collected through the forest in-  
16 ventory and analysis program under section  
17 3(e) of the Forest and Rangeland Renewable  
18 Resources Research Act of 1978 (16 U.S.C.  
19 1642(e));

20           (C) forest carbon stock and the rate of car-  
21 bon storage and sequestration in forest carbon  
22 pools;

23           (D) the net carbon storage and sequestra-  
24 tion of active forest management;

1 (E) the rate of carbon storage and seques-  
2 tration in varying forests based on the climate  
3 the forest is located in, the average age of  
4 stands, and rate of tree mortality;

5 (F) the net amount of carbon released  
6 through catastrophic wildfire, disease and insect  
7 infestations, and other disturbances that result  
8 in tree mortality;

9 (G) the net carbon stored and sequestered  
10 through the manufacture of harvested wood  
11 products;

12 (H) the net carbon stored and sequestered  
13 through a sustainable cycle of harvest and re-  
14 generation;

15 (I) forest carbon flux; and

16 (J) other factors as determined by the Sec-  
17 retary.

18 (3) VALIDATION PROGRAM.—

19 (A) IN GENERAL.—The Secretary shall  
20 carry out a program for validation and inde-  
21 pendent testing of the lifecycle models devel-  
22 oped under paragraph (1).

23 (B) REQUIREMENTS.—In carrying out the  
24 validation program under subparagraph (A),  
25 the Secretary shall—

1 (i) regularly perform retrospective as-  
2 sessments comparing model predictions to  
3 field data on the carbon stored in forests;  
4 and

5 (ii) require independent evaluation  
6 and comparison of lifecycle models devel-  
7 oped under paragraph (1) against existing  
8 models, and enable empirical testing of  
9 hypotheses regarding the net effects on  
10 land and atmospheric carbon stocks and  
11 other greenhouse gas impacts.

12 (4) REPORT.—Not later than 2 years after the  
13 date of enactment of this Act, and every 2 years  
14 thereafter, the Secretary shall submit to Congress a  
15 report that includes—

16 (A) the findings of the analysis conducted  
17 using the model developed under paragraph (1);

18 (B) recent trends and current forest car-  
19 bon stock, forest carbon pools, and forest car-  
20 bon flux as well as projections of forest carbon  
21 stock, forest carbon pools, and forest carbon  
22 flux for the succeeding 50 years; and

23 (C) scenario planning for Federal, State,  
24 Tribal, local, and private landowners that ana-

1           lyzes different policy options and their associ-  
2           ated effects on lifecycle forest carbon stock.

3 **SEC. 106. FOREST INVENTORY AND ANALYSIS.**

4           (a) 5-YEAR REPORTS.—Section 3(e)(3) of the Forest  
5 and Rangeland Renewable Resources Research Act of  
6 1978 (16 U.S.C. 1642(e)(3)) is amended—

7           (1) in subparagraph (B), by striking “and” at  
8           the end;

9           (2) in subparagraph (C), by inserting “, forest  
10          carbon,” after “forest health conditions and trends”;

11          (3) in subparagraph (C), by striking the period  
12          and inserting “paragraph; and”;

13          (4) by adding at the end the following:

14                 “(D) demonstrates the Agency’s efforts  
15          to—

16                         “(i) conduct a strategic national forest  
17                         inventory by measuring a statistically de-  
18                         signed consistent historical series of field  
19                         plots in combination with advanced tech-  
20                         nology to improve data, information, and  
21                         estimates of precision; and

22                         “(ii) use advanced geospatial tech-  
23                         nologies to improve such area and volume  
24                         estimates, especially for sub-State regions  
25                         and smaller areas.”.

1 (b) MEMORANDA OF UNDERSTANDING.—In pre-  
2 paring, publishing, and making available reports under  
3 section 3(e)(3) of the Forest and Rangeland Renewable  
4 Resources Research Act of 1978 (16 U.S.C. 1642(e)(3)),  
5 as amended by subsection (a), the Secretary may enter  
6 into memorandums of understanding with other Federal  
7 agencies or departments to improve the use and integra-  
8 tion of advanced remote sensing and geospatial tech-  
9 nologies in the forest inventory and analysis program  
10 under such section.

11 **SEC. 107. NATIONAL FOREST FOUNDATION ACTIVITIES.**

12 (a) ADDING FOREST CARBON STOCK TO THE PUR-  
13 POSES OF THE NATIONAL FOREST FOUNDATION.—The  
14 National Forest Foundation Act (16 U.S.C. 583j et seq.)  
15 is amended—

16 (1) in section 402(b)—

17 (A) in paragraph (2), by striking “and” at  
18 the end;

19 (B) in paragraph (3), by striking the pe-  
20 riod at the end and inserting a semicolon; and

21 (C) by adding at the end the following:

22 “(4) encourage, accept, and administer private  
23 gifts of money and of real and personal property for  
24 the benefit of, or in connection with, the targets for



1 optimizing forest carbon stock established under sec-  
2 tion 101 of the ‘Trillion Trees Act’; and

3 “(5) carry out the National Medal for Forest  
4 Restoration under section 410.”;

5 (2) in section 405—

6 (A) in subsection (a), by striking “410”  
7 and inserting “412”; and

8 (B) in subsection (b), by striking “410”  
9 and inserting “412”;

10 (3) by redesignating section 410 as section 412;

11 and

12 (4) by inserting after section 409 the following:

13 **“SEC. 410. NATIONAL MEDAL FOR FOREST RESTORATION.**

14 “(a) ESTABLISHMENT.—The Foundation shall, in  
15 consultation with the Secretary of Agriculture, establish  
16 an award to be known as the ‘National Medal for Forest  
17 Restoration’ to recognize outstanding contributions in do-  
18 mestic reforestation (as defined in section 2 of the Trillion  
19 Trees Act) activities carried out by individuals, commu-  
20 nities, nonprofit organizations, and corporations.

21 “(b) NUMBER OF AWARDS.—The Foundation shall  
22 award the National Medal for Forest Restoration at least  
23 once a year.

24 “(c) LEVELS OF AWARDS.—The Foundation shall, in  
25 consultation with Secretary of Agriculture, establish mul-

1 tiple levels of awards reflecting the considerations speci-  
2 fied in subsection (e).

3 “(d) ADMINISTRATION OF AWARD.—The Foundation  
4 shall administer the awards under this section, including  
5 by—

6 “(1) developing a website and media presence  
7 to highlight recipients of such awards; and

8 “(2) tracking the contribution of such recipients  
9 towards the targets for increased forest carbon stock  
10 established under section 101 of the Trillion Trees  
11 Act.

12 “(e) CONSIDERATIONS.—In awarding the National  
13 Medal for Forest Restoration under this section to an enti-  
14 ty described in subsection (a), the Foundation shall con-  
15 sider—

16 “(1) the number of acres planted or restored by  
17 such entity;

18 “(2) the total increase in forest carbon stock  
19 (as defined in section 2 of the Trillion Trees Act) re-  
20 sulting from reforestation (as defined in section 2 of  
21 the Trillion Trees Act) activities of such entity;

22 “(3) the educational impact of the reforestation  
23 (as defined in section 2 of the Trillion Trees Act)  
24 activities of such entity; and

1           “(4) the total value of any donations by such  
2           entity to the Foundation.”.

3           (b) **FIFTH GRADE FORESTRY CHALLENGE.**—The  
4           National Forest Foundation Act (16 U.S.C. 583j et seq.),  
5           as amended by subsection (a), is further amended by in-  
6           serting after section 410 the following:

7           **“SEC. 411. FIFTH GRADE FORESTRY CHALLENGE.**

8           “(a) **ESTABLISHMENT.**—The Foundation shall estab-  
9           lish an educational grant program, in consultation with  
10          the Secretary, to be known as the ‘5th Grade Forestry  
11          Challenge’ to make grants to eligible recipients to—

12           “(1) provide 5th grade students with a seedling  
13          to plant;

14           “(2) educate students about forestry, forest  
15          management, active stewardship, and carbon stor-  
16          age; and

17           “(3) encourage, accept, and administer private  
18          gifts of money, technical expertise, and of real and  
19          personal property for the benefit of this program.

20          “(b) **ELIGIBLE RECIPIENTS.**—The following entities  
21          are eligible to receive a grant under this section:

22           “(1) A local educational agency.

23           “(2) A nonprofit entity that the Secretary de-  
24          termines has a demonstrated history of community

1 engagement and education on natural resource  
2 issues.

3 “(3) Other recipients as the Secretary deter-  
4 mines to be appropriate.

5 “(c) COORDINATION.—In carrying out the program  
6 required by this section, the Foundation may coordinate  
7 on an ongoing basis with appropriate Federal, State, Trib-  
8 al, and local resource management departments, local edu-  
9 cational agencies, nonprofit organizations, private citizens,  
10 and corporations to—

11 “(1) identify lands suitable for reforestation (as  
12 defined in section 2 of the Trillion Trees Act);

13 “(2) encourage, accept, and administer private  
14 gifts of money, technical expertise, and of real and  
15 personal property for the benefit of such program;

16 “(3) manage and maintain reforested lands;  
17 and

18 “(4) further educate students and the public  
19 about forestry and forest carbon stock (as defined in  
20 section 2 of the Trillion Trees Act).

21 “(d) REPORT REQUIRED.—Not later than 2 years  
22 after the date on which the Foundation establishes the  
23 grant program under this section, the Secretary shall sub-  
24 mit to the relevant committees a report on the determina-  
25 tion of the Secretary as to whether the grant program is

1 a financially effective means to educate students in the  
2 fields described in subsection (a)(2).

3 “(e) DEFINITIONS.—In this subsection:

4 “(1) LOCAL EDUCATIONAL AGENCY.—The term  
5 ‘local educational agency’ has the meaning given  
6 that term in section 8101 of the Elementary and  
7 Secondary Education Act of 1965 (20 U.S.C. 7801).

8 “(2) RELEVANT COMMITTEES.—The term ‘rel-  
9 evant committees’ means—

10 “(A) the Committee on Natural Resources  
11 of the House of Representatives;

12 “(B) the Committee on Agriculture of the  
13 House of Representatives;

14 “(C) the Committee on Energy and Nat-  
15 ural Resources of the Senate; and

16 “(D) the Committee on Agriculture, Nutri-  
17 tion, and Forestry of the Senate.”.

## 18 **Subtitle B—Regeneration**

### 19 **SEC. 111. REFORESTATION PROGRAMS.**

20 (a) NATIONAL FOREST COVER POLICY.—

21 (1) IN GENERAL.—Section 3 of the Forest and  
22 Rangeland Renewable Resources Planning Act of  
23 1974 (16 U.S.C. 1601), as amended by section 105,  
24 is further amended—

1 (A) by redesignating subsection (e) as sub-  
2 section (f);

3 (B) by redesignating the second subsection  
4 (d) (relating to the policy of Congress regarding  
5 forested land in the National Forest System) as  
6 subsection (e); and

7 (C) in subsection (e), as so redesignated—  
8 (i) in paragraph (2)—

9 (I) in the first sentence—  
10 (aa) by striking “eight years  
11 following the enactment of this  
12 subsection” and inserting “10  
13 years following the date of enact-  
14 ment of the ‘Trillion Trees Act’ ”;  
15 and

16 (bb) by striking “eight-year  
17 period” and inserting “10-year  
18 period”;

19 (II) in the second sentence, by  
20 striking “such eight-year period” and  
21 inserting “the 10-year period”; and

22 (III) in the third sentence, by  
23 striking “1978” and inserting  
24 “2021”;

1 (ii) by redesignating paragraph (3) as  
2 paragraph (4);

3 (iii) in the first sentence of paragraph  
4 (4), as so redesignated, by striking “sub-  
5 section (d)” and inserting “subsection”;  
6 and

7 (iv) by inserting after paragraph (2)  
8 the following:

9 “(3) REFORESTATION PRIORITIZATION.—

10 “(A) REFORESTATION PRIORITY.—

11 “(i) IN GENERAL.—In carrying out  
12 this subsection, the Secretary shall give  
13 priority to projects on the priority list de-  
14 scribed in clause (ii).

15 “(ii) RANKED PRIORITY LIST.—The  
16 Chief of the Forest Service shall, based on  
17 recommendations from regional foresters,  
18 create a ranked priority list of projects  
19 that—

20 “(I) primarily take place on pri-  
21 ority land;

22 “(II) promote reforestation (as  
23 defined in section 2 of the Trillion  
24 Trees Act) on priority land;

1                   “(III)     deliver     measurable  
2                   progress and cost-effective results;

3                   “(IV)    increase   forest   carbon  
4                   stock (as defined in section 2 of the  
5                   Trillion Trees Act) in a sustainable  
6                   manner; and

7                   “(V)    provide additional benefits  
8                   relating to forest function and health,  
9                   soil health and productivity, wildlife  
10                  habitat and biodiversity, improved air  
11                  and water quality, job creation, en-  
12                  hanced outdoor recreation, and forest  
13                  products and byproducts.

14                  “(B) PRIORITY LAND DEFINED.—In this  
15                  paragraph, the term ‘priority land’ means Na-  
16                  tional Forest System land that, due to an un-  
17                  planned adverse disturbance (including a wild-  
18                  fire, ice storm, blowdown, flooding, insect infes-  
19                  tation, disease, volcanic activity, or seismic  
20                  event)—

21                  “(i) does not meet the conditions for  
22                  appropriate forest cover described in para-  
23                  graph (1);

24                  “(ii) requires reforestation (as defined  
25                  in section 2 of the Trillion Trees Act) to



1 meet the objectives of an applicable forest  
2 plan; and

3 “(iii) is unlikely to experience natural  
4 regeneration without assistance.”.

5 (2) CONFORMING AMENDMENTS.—

6 (A) COOPERATIVE FORESTRY ASSISTANCE  
7 ACT OF 1978.—Section 9 of the Cooperative  
8 Forestry Assistance Act of 1978 (16 U.S.C.  
9 2105) is amended in the matter following para-  
10 graph (5) of subsection (g)—

11 (i) by striking “section 3(d)” and in-  
12 serting “subsection (e) of section 3”; and

13 (ii) by striking “1601(d)” and insert-  
14 ing “1601”.

15 (B) REFORESTATION TRUST FUND.—Sec-  
16 tion 303 of the Act of October 14, 1980 (Public  
17 Law 96–451; 16 U.S.C. 1606a) is amended in  
18 subsection (d)(1)—

19 (i) by striking “section 3(d)” and in-  
20 serting “subsection (e) of section 3”; and

21 (ii) by striking “1601(d)” and insert-  
22 ing “1601”.

23 (C) STEWARDSHIP END RESULT CON-  
24 TRACTING PROJECTS.—Section 604(c) of the  
25 Healthy Forests Restoration Act of 2003 (16

1 U.S.C. 6591c(e)) is amended by adding at the  
2 end the following:

3 “(8) Reforestation (as defined in section 2 of  
4 the Trillion Trees Act), except the Chief shall give  
5 priority to reforestation projects in accordance with  
6 the priorities specified in subsection (e)(3)(A)(ii) of  
7 section 3 of the Forest and Rangeland Renewable  
8 Resources Planning Act of 1974 (16 U.S.C. 1601).”.

9 (b) TARGET YEAR FOR NATIONAL FOREST SYS-  
10 TEM.—Section 9 of the Forest and Rangeland Renewable  
11 Resources Planning Act of 1974 (16 U.S.C. 1607) is  
12 amended by striking “2000” and inserting “2031”.

13 **SEC. 112. REFORESTATION TRUST FUND.**

14 Section 303 of the Act of October 14, 1980 (Public  
15 Law 96–451; 16 U.S.C. 1606a) is amended in subsection  
16 (b)(2), by striking “\$30,000,000” and inserting  
17 “\$180,000,000”.

18 **SEC. 113. SOLVING SHORTAGES FOR SEEDLINGS.**

19 (a) IN GENERAL.—Not later than 1 year after the  
20 date of the enactment of this section, the Secretary, acting  
21 through the Chief of the Forest Service, shall develop and  
22 implement a national strategy to increase the capacity of  
23 Federal, State, Tribal, and private nurseries to address  
24 the nationwide shortage of tree seedlings.

1 (b) ELEMENTS.—The strategy required under sub-  
2 section (a) shall—

3 (1) be based on the best available science and  
4 data; and

5 (2) identify and address—

6 (A) regional seedling shortages of bareroot  
7 and container tree seedlings;

8 (B) regional reforestation opportunities  
9 and the seedling supply necessary to fulfill such  
10 opportunities;

11 (C) opportunities to enhance seedling di-  
12 versity and close gaps in seed inventories; and

13 (D) barriers to expanding, enhancing, or  
14 creating new infrastructure to increase nursery  
15 capacity.

16 (c) FEDERAL NURSERIES.—Section 2 of the Act of  
17 June 9, 1930 (16 U.S.C. 576a; commonly known as the  
18 “Knutson-Vandenberg Act”), is amended by striking  
19 “each fiscal year after year ending June 30, 1934, not  
20 to exceed \$400,000,” and inserting “each of fiscal years  
21 2021 through 2030, \$25,000,000.”

22 (d) LOAN PROGRAM FOR STATE, TRIBAL, AND PRI-  
23 VATE NURSERIES.—

24 (1) IN GENERAL.—The Secretary shall carry  
25 out a loan program to make or guarantee qualified

1 nursery loans to eligible entities under this sub-  
2 section.

3 (2) APPLICATION.—To be eligible to receive a  
4 qualified nursery loan or loan guarantee under this  
5 subsection, an eligible entity shall submit to the Sec-  
6 retary an application at such time, in such manner,  
7 and containing such information as the Secretary  
8 may require, including a plan to maintain the ge-  
9 netic and physical quality of seedlings of the eligible  
10 entity.

11 (3) PRIORITY.—In making qualified nursery  
12 loans or loan guarantees under this subsection, the  
13 Secretary shall give priority to eligible entities  
14 that—

15 (A) are small businesses, in particular  
16 small businesses located in rural areas;

17 (B) create or support jobs, particularly in  
18 rural areas; and

19 (C) serve regions with high demand for re-  
20 forestation.

21 (4) QUALIFIED NURSERY PROJECT.—A loan or  
22 loan guarantee under this subsection may only be  
23 used to carry out a qualified nursery project to—

24 (A) develop, expand, enhance, or improve  
25 nursery capacity or infrastructure;

1 (B) establish nurseries; or

2 (C) develop or implement quality control  
3 measures at nurseries.

4 (5) LOAN AND LOAN GUARANTEE TERMS.—

5 (A) AMOUNT GUARANTEED.—The portion  
6 of a loan that the Secretary may guarantee  
7 under this subsection may not be greater than  
8 80 percent of the principal amount of such  
9 loan.

10 (B) REPAYMENT.—The period of repay-  
11 ment for a loan made under this subsection  
12 shall not exceed 20 years.

13 (6) ADMINISTRATIVE PROVISIONS.—

14 (A) LIMITATION ON AUTHORITY.—The  
15 total amount of qualified nursery loans made or  
16 guaranteed under this subsection by the Sec-  
17 retary may not exceed \$1,000,000,000.

18 (B) DISTRIBUTION.—The Secretary shall  
19 ensure, to the maximum extent practicable, that  
20 loans made or guaranteed under this subsection  
21 are distributed across diverse geographic re-  
22 gions.

23 (7) DEFINITIONS.—In this subsection:

24 (A) ELIGIBLE ENTITY.—The term “eligible  
25 entity” means—

1 (i) a State, Tribal, or local govern-  
2 ment; or

3 (ii) a domestic private, non-profit, or  
4 cooperative organization.

5 (B) NURSERY.—The term “nursery”  
6 means a State, Tribal, or local government or  
7 privately-owned facility that grows, stores, ex-  
8 tracts, or monitors bareroot or container tree  
9 seedlings.

10 (C) QUALIFIED NURSERY LOAN.—The  
11 term “qualified nursery loan” means a low-in-  
12 terest loan, the proceeds of which are used to  
13 cover the costs to the borrower of carrying out  
14 a qualified nursery project described in para-  
15 graph (4).

16 **SEC. 114. HEALTHY FOREST RESERVE PROGRAM.**

17 (a) ESTABLISHMENT.—Section 501(a) of the Healthy  
18 Forests Restoration Act of 2003 (16 U.S.C. 6571(a)) is  
19 amended—

20 (1) in paragraph (3), by striking “and” at the  
21 end;

22 (2) in paragraph (4), by striking the period at  
23 the end and inserting “; and”; and

24 (3) by adding at the end the following:

1           “(5) to promote the management and conserva-  
2           tion of existing forests and regeneration of addi-  
3           tional trees in pursuit of the targets for increased  
4           forest carbon stock established under section 101 of  
5           the Trillion Trees Act.”.

6           (b) ENROLLMENT PRIORITY.—Section 502(f)(1) of  
7           the Healthy Forests Restoration Act of 2003 (16 U.S.C.  
8           6572) is amended to read as follows:

9           “(1) IN GENERAL.—The Secretary of Agri-  
10          culture shall give priority to the enrollment of land  
11          that—

12                 “(A) provides the greatest conservation  
13          benefit to—

14                         “(i) primarily, species listed as endan-  
15                         gered or threatened under section 4 of the  
16                         Endangered Species Act of 1973 (16  
17                         U.S.C. 1533); and

18                         “(ii) secondarily, species that—

19                                 “(I) are not listed as endangered  
20                                 or threatened under section 4 of the  
21                                 Endangered Species Act of 1973 (16  
22                                 U.S.C. 1533); but

23   “(II)(aa) are candidates for such  
24   listing, State-listed species, or special  
25   concern species; or

1                   “(bb) are deemed a species of  
2                   greatest conservation need under a  
3                   State wildlife action plan; or

4                   “(B) promotes the restoration of marginal  
5                   farmland or degraded forestland into healthy  
6                   forest ecosystems.”.

7           (c) RESTORATION PLANS.—Section 503(b)(4) of the  
8 Healthy Forests Restoration Act of 2003 (16 U.S.C.  
9 6573(b)) is amended to read as follows:

10           “(4) Practices to increase forest carbon stock  
11           (as defined in section 2 of the Trillion Trees Act)  
12           over a period of at least 20 years, including through  
13           reforestation of degraded forestland and  
14           afforestation (as such terms are defined in such sec-  
15           tion) of marginal farmland.”.

16           (d) COST SHARING.—Section 504 of the Healthy  
17 Forests Restoration Act of 2003 (16 U.S.C. 6574) is  
18 amended by adding at the end the following:

19           “(e) COST-SHARE PERMITTED.—In the case of land  
20 enrolled in the healthy forest reserve program for the pur-  
21 pose of promoting the restoration of marginal farmland  
22 or degraded forestland into healthy forest ecosystems, the  
23 Secretary of Agriculture may pay up to 75 percent for the  
24 cost of practices determined necessary for restoration or



1 afforestation (as defined in section 2 of the Trillion Trees  
2 Act) of such land.”.

3 **SEC. 115. FORESTRY EDUCATION AND WORKFORCE DEVEL-**  
4 **OPMENT GRANT PROGRAM.**

5 (a) IN GENERAL.—The Secretary shall establish a  
6 competitive grant program to make grants to eligible insti-  
7 tutions to carry out forestry education and workforce de-  
8 velopment programs to prepare students for careers in for-  
9 estry.

10 (b) PROPOSAL.—To be eligible to receive a grant  
11 under this section, an eligible institution shall submit to  
12 the Secretary a proposal at such time, in such manner,  
13 and containing such information as the Secretary may re-  
14 quire.

15 (c) EQUITABLE AWARDS.—For each fiscal year for  
16 which grants are awarded under this section, the amount  
17 of grant funds awarded to eligible institutions described  
18 in paragraph (1) of subsection (f) shall be equal to the  
19 amount of grant funds awarded to eligible institutions de-  
20 scribed in paragraphs (2) and (3) of such subsection.

21 (d) USE OF GRANT FUNDS.—

22 (1) IN GENERAL.—Grants made under this sec-  
23 tion shall be used to—

24 (A) award scholarships to students enrolled  
25 in the eligible institution and pursuing degrees

1 in forestry, including students historically  
2 underrepresented in the field of forestry;

3 (B) expand, enhance, or improve forestry  
4 educational capacities of the eligible institution,  
5 including libraries, curriculum, faculty, and sci-  
6 entific instrumentation;

7 (C) recruit and retain—

8 (i) secondary school or undergraduate  
9 students to pursue certifications in forestry  
10 or acquire training in technical forestry  
11 skills, including students historically  
12 underrepresented in the field of forestry; or

13 (ii) undergraduate and graduate stu-  
14 dents to pursue degrees in forestry, includ-  
15 ing students historically underrepresented  
16 in the field of forestry;

17 (D) design and develop resources or pro-  
18 grams that prepare students enrolled in the eli-  
19 gible institution for careers in forestry, includ-  
20 ing internship and apprenticeship programs;

21 (E) provide hands-on training and research  
22 opportunities for such students; or

23 (F) carry out any other activity the Sec-  
24 retary determines appropriate.

1           (2) CLARIFICATION OF FORESTRY EDU-  
2           CATION.—For purposes of paragraph (1), the terms  
3           “degrees in forestry”, “certifications in forestry”,  
4           and “training in technical forestry skills” include de-  
5           grees, certifications, and training in forestry, forest  
6           sciences, natural resources management, or other re-  
7           lated educational disciplines.

8           (e) PAYMENT OF NON-FEDERAL SHARE.—As a con-  
9           dition of receiving a grant under this section, the Sec-  
10          retary shall require the recipient of the grant to provide  
11          funds or in-kind support from non-Federal sources in an  
12          amount that is specified by the Secretary and based on  
13          assessed institutional needs.

14          (f) ELIGIBLE INSTITUTION DEFINED.—In this sec-  
15          tion, the term “eligible institution” means—

16               (1) a land grant college or university, including  
17               an institution eligible to receive funding under—

18                       (A) the Act of July 2, 1862;

19                       (B) the Act of August 30, 1890, including  
20                       Tuskegee University;

21                       (C) Public Law 87–788 (commonly known  
22                       as the “McIntire-Stennis Act of 1962”); or

23                       (D) the Equity in Educational Land-Grant  
24                       Status Act of 1994 (7 U.S.C. 301 note);

1 (2) a community college or area career and  
 2 technical education school (as defined in section 3 of  
 3 the Carl D. Perkins Career and Technical Education  
 4 Act of 2006 (20 U.S.C. 2302)); or

5 (3) an institution of higher education (as de-  
 6 fined in section 102 of the Higher Education Act of  
 7 1965 (20 U.S.C. 1002)).

8 (g) AUTHORIZATION OF APPROPRIATIONS.—There  
 9 are authorized to be appropriated to the Secretary  
 10 \$20,000,000 for each of fiscal years 2021 through 2030  
 11 to carry out this section.

12 **SEC. 116. CIVILIAN CONSERVATION CENTERS REFOREST-**  
 13 **ATION ACTIVITIES.**

14 Section 147(d) of the Workforce Innovation and Op-  
 15 portunity Act (29 U.S.C. 3197(d)) is amended by adding  
 16 at the end the following:

17 “(4) REFORESTATION ACTIVITIES.—Enrollees  
 18 in Civilian Conservation Centers may provide assist-  
 19 ance in carrying out priority reforestation (as de-  
 20 fined in section 2 of the Trillion Trees Act) projects  
 21 in accordance with subsection (e)(3)(A)(ii) of section  
 22 3 of the Forest and Rangeland Renewable Resources  
 23 Planning Act of 1974 (16 U.S.C. 1601).”.

1 **SEC. 117. FOREST TECHNOLOGY ENHANCEMENTS FOR CON-**  
2 **SERVATION AND HABITAT IMPROVEMENT.**

3 (a) ESTABLISHMENT OF PILOT PROGRAM.—Not  
4 later than 180 days after the date of the enactment of  
5 this section, the Secretary, in consultation with the Sec-  
6 retary of the Interior, shall either establish a research, de-  
7 velopment, and testing pilot program or expand an appli-  
8 cable existing program to—

9 (1) assess new technologies, including un-  
10 manned aircraft system, geospatial, or remote sens-  
11 ing technologies, across all reforestation activities;

12 (2) accelerate the deployment and integration of  
13 such technologies into the operations of the Secre-  
14 taries; and

15 (3) collaborate and cooperate with State, Trib-  
16 al, and private geospatial information system organi-  
17 zations with respect to such technologies.

18 (b) EXPANDING USE OF UNMANNED AIRCRAFT SYS-  
19 TEMS.—Not later than 1 year after the date of enactment  
20 of this section, the Secretaries shall enter into an agree-  
21 ment to develop consistent protocols and plans for the use  
22 of unmanned aircraft system technologies for reforestation  
23 activities.

24 (c) DOMESTIC MANUFACTURE REQUIREMENT.—Any  
25 unmanned aircraft system technology or component of un-

1 manned aircraft system technology used under this section  
2 shall be made and manufactured in the United States.

3 (d) RULE OF CONSTRUCTION.—Nothing in this sec-  
4 tion shall be construed as prohibiting the Secretary of Ag-  
5 riculture from using unmanned aircraft systems tech-  
6 nologies in effect on the date of the enactment of this sec-  
7 tion.

8 (e) UNMANNED AIRCRAFT SYSTEM DEFINED.—In  
9 this section, the term “unmanned aircraft system” has the  
10 meaning given the term in section 44801 of title 49,  
11 United States Code.

12 (f) SUNSET.—The authority to carry out this section  
13 shall terminate on the date that is 5 years after the date  
14 of the enactment of this section.

## 15 **Subtitle C—Urban Forests**

### 16 **SEC. 121. URBAN AND COMMUNITY FORESTRY ASSISTANCE.**

17 (a) TREE CITY USA GRANT PROGRAM.—Section 9  
18 of the Cooperative Forestry Assistance Act of 1978 (16  
19 U.S.C. 2105) is amended—

20 (1) by redesignating subsections (h) and (i) as  
21 subsections (j) and (k), respectively; and

22 (2) by inserting after subsection (g) the fol-  
23 lowing;

24 “(h) TREE CITY USA GRANT PROGRAM.—

1           “(1) IN GENERAL.—The Secretary shall estab-  
2           lish a grant program to be known as the ‘Tree City  
3           USA Grant Program’ to provide competitive grants  
4           to eligible entities to enhance and maintain urban  
5           forests.

6           “(2) APPLICATION.—

7                   “(A) IN GENERAL.—To be eligible to be  
8                   awarded a grant under paragraph (1), an eligi-  
9                   ble entity shall submit an application to the  
10                  Secretary at such time, in such manner, and  
11                  containing such information as the Secretary  
12                  may require, including a proposal to enhance  
13                  and maintain urban forests.

14                  “(B) APPLICATION ASSISTANCE.—A non-  
15                  profit organization that partners with an eligi-  
16                  ble entity may submit an application under sub-  
17                  paragraph (A) on behalf of such eligible entity.

18           “(3) PRIORITY.—In awarding grants under  
19           paragraph (1), the Secretary shall give priority to el-  
20           igible entities that submit proposals under para-  
21           graph (2)(A) that—

22                   “(A) enhance, maintain, or improve access  
23                   to urban forests in—

24                           “(i) typically underserved areas; or

1                   “(ii) areas with low tree or environ-  
2                   mental equity;

3                   “(B) further a statewide assessment or  
4                   local government initiative to enhance and  
5                   maintain urban forests;

6                   “(C) include a plan to mitigate risks from  
7                   insects, disease, and non-native invasive species;  
8                   and

9                   “(D) include a plan to monitor and main-  
10                  tain new and existing trees.

11                  “(4) TECHNICAL ASSISTANCE.—The Secretary  
12                  may provide technical assistance to local govern-  
13                  ments to assist such local governments with—

14                         “(A) becoming eligible entities; and

15                         “(B) proposals under paragraph (2)(A).

16                  “(5) MATCHING FUNDS.—An eligible entity  
17                  that receives a grant under this subsection shall con-  
18                  tribute an amount of non-Federal funds (in cash or  
19                  in kind) that is at least equal to the amount of the  
20                  Federal funds received.

21                  “(6) PREMIER TREE CITY.—Not later than 1  
22                  year after the date of the enactment of the Trillion  
23                  Trees Act, and annually through 2030 thereafter,  
24                  the Secretary shall designate as a ‘Premier Tree  
25                  City’ one eligible entity awarded a grant under this



1 subsection to recognize the superior efforts of such  
2 eligible entity in enhancing and maintaining urban  
3 forests.

4 “(7) AUTHORIZATION OF APPROPRIATIONS.—In  
5 addition to the amounts authorized under subsection  
6 (k), there are authorized to be appropriated  
7 \$1,000,000 for each of fiscal years 2021 through  
8 2030 to carry out this subsection.

9 “(8) ELIGIBLE ENTITY DEFINED.—In this sub-  
10 section, the term ‘eligible entity’ means a local gov-  
11 ernment that—

12 “(A) serves an urban and community area;  
13 and

14 “(B) a tree planting non-profit organiza-  
15 tion recognizes as having—

16 “(i) a tree board or department;

17 “(ii) a tree care ordinance;

18 “(iii) a community forestry program  
19 with an annual budget of at least \$2 per  
20 capita; and

21 “(iv) an Arbor Day observance and  
22 proclamation.”.

23 (b) COOPERATIVE AGREEMENTS FOR URBAN WOOD  
24 UTILIZATION.—Section 9 of the Cooperative Forestry As-  
25 sistance Act of 1978 (16 U.S.C. 2105), as amended by

1 subsection (a), is further amended by inserting after sub-  
2 section (h) the following:

3 “(i) PILOT PROJECT FOR COOPERATIVE AGREE-  
4 MENTS FOR URBAN WOOD UTILIZATION.—

5 “(1) COOPERATIVE AGREEMENTS.—The Sec-  
6 retary may enter into cooperative agreements with  
7 State and local governments, institutions of higher  
8 education, private or non-profit organizations, and  
9 other entities that support projects that create wood  
10 products from dead and fallen trees in urban and  
11 community areas.

12 “(2) PRIORITIZATION.—The Secretary shall  
13 prioritize entering into cooperative agreements  
14 that—

15 “(A) support local job creation;

16 “(B) are located in typically underserved  
17 areas or areas with low tree or environmental  
18 equity;

19 “(C) develop new uses for dead and fallen  
20 trees; and

21 “(D) improve urban forest health and re-  
22 siliency.

23 “(3) TECHNICAL AND FINANCIAL ASSIST-  
24 ANCE.—The Secretary may provide technical or fi-  
25 nancial assistance to entities that enter into a coop-

1       erative agreement under paragraph (1) to facili-  
2       tate—

3               “(A) research on new uses for dead and  
4               fallen trees in urban and community areas; and

5               “(B) market expansion opportunities for  
6               products made from dead and fallen trees in  
7               urban and community areas.

8               “(4) REPORT.—Not later than 1 year after the  
9               date of the enactment of the Trillion Trees Act, the  
10              Secretary shall provide a report to the relevant com-  
11              mittees on—

12              “(A) the implementation of this subsection;  
13              and

14              “(B) recommendations to encourage eco-  
15              nomic development and job creation by creating  
16              new markets for wood products made from  
17              urban timber sources.

18              “(5) DEFINITIONS.—In this subsection—

19              “(A) DEAD AND FALLEN TREES.—The  
20              term ‘dead and fallen trees’ means trees that—

21                      “(i) are dying or have died;

22                      “(ii) have partially or completely fall-  
23                      en over; or

1                   “(iii) have been negatively impacted  
2                   by insects, disease, or weather-related dis-  
3                   turbances.

4                   “(B) RELEVANT COMMITTEES.—The term  
5                   ‘relevant committees’ means—

6                   “(i) the Committees on Natural Re-  
7                   sources and Agriculture of the House of  
8                   Representatives; and

9                   “(ii) the Committees on Energy and  
10                  Natural Resources and Agriculture, Nutri-  
11                  tion, and Forestry of the Senate.”.

12                  (c) PROGRAM OF EDUCATION AND TECHNICAL AS-  
13                  SISTANCE CLARIFICATION FOR CARBON STORAGE.—Sec-  
14                  tion 9(d)(3) of the Cooperative Forestry Assistance Act  
15                  of 1978 (16 U.S.C. 2105(d)(3)) is amended—

16                  (1) in subparagraph (C), by striking “and”  
17                  after the semicolon;

18                  (2) in subparagraph (D), by inserting “and”  
19                  after the semicolon; and

20                  (3) by inserting at the end the following new  
21                  subparagraph:

22                  “(E) identifying opportunities to increase  
23                  carbon storage through afforestation (as de-  
24                  fined in section 2 of the Trillion Trees Act) and

1 scientific urban and community forestry man-  
2 agement;”.

3 (d) NATIONAL URBAN AND COMMUNITY FORESTRY  
4 ADVISORY COUNCIL.—Section 9(g) of the Cooperative  
5 Forestry Assistance Act of 1978 (16 U.S.C. 2105(g)) is  
6 amended—

7 (1) in paragraph (2), by adding at the end the  
8 following new subparagraph:

9 “(F) MEETINGS.—The Council established  
10 under this subsection shall meet not less than  
11 twice annually.”; and

12 (2) by adding at the end the following new  
13 paragraph:

14 “(7) RENEWAL OF COUNCIL.—

15 “(A) IN GENERAL.—Not later than 30  
16 days after the date of the enactment of the  
17 Trillion Trees Act, the Secretary shall renew  
18 the Council.

19 “(B) TERMINATION.—The Council shall  
20 not terminate except as provided by an Act of  
21 Congress.”.

22 (e) URBAN AND COMMUNITY FORESTRY ACTION  
23 PLAN CLARIFICATION FOR CARBON STORAGE.—Section  
24 9(g)(3) of the Cooperative Forestry Assistance Act of

1 1978 (16 U.S.C. 2105(g)(3)) is amended by adding at the  
2 end the following:

3           “(G) Recommendations for identifying op-  
4           portunities to increase carbon storage through  
5           afforestation (as defined in section 2 of the  
6           Trillion Trees Act) and scientific urban and  
7           community forestry management.”.

8           (f) AUTHORIZATION OF APPROPRIATIONS.—Sub-  
9           section (k) of section 9 of the Cooperative Forestry Assist-  
10          ance Act of 1978 (16 U.S.C. 2105), as redesignated by  
11          subsection (a), is amended—

12           (1) by striking “\$30,000,000” and inserting  
13           “\$50,000,000”; and

14           (2) by striking “fiscal years 1991 through  
15           1995” and inserting “fiscal years 2021 through  
16           2025”.

17 **SEC. 122. CIVILIAN CONSERVATION CENTER URBAN FOR-**  
18 **ESTRY DEMONSTRATION PROGRAM.**

19          Section 147(d) of the Workforce Innovation and Op-  
20          portunity Act (29 U.S.C. 3197(d)), as amended by section  
21          116, is further amended by adding at the end the fol-  
22          lowing:

23           “(5) URBAN FORESTRY.—

24           “(A) ESTABLISHMENT.—Not later than 1  
25           year after the date of the enactment of this

1 paragraph, the Secretary of Agriculture and the  
2 Secretary of Labor shall jointly establish Civil-  
3 ian Conservation Centers in urban and commu-  
4 nity areas (as defined in subsection (j) of sec-  
5 tion 9 of the Cooperative Forestry Assistance  
6 Act of 1978 (16 U.S.C. 2105)).

7 “(B) FOCUS.—In addition to the training  
8 and skills required under paragraph (1), the Ci-  
9 vilian Conservation Centers established pursu-  
10 ant to subparagraph (A) shall provide training  
11 on urban forestry issues, including urban forest  
12 conservation, management, maintenance, and  
13 monitoring.”.

14 **SEC. 123. MEMORANDUM OF UNDERSTANDING TO COORDI-**  
15 **NATE URBAN FORESTRY PROGRAMS.**

16 Not later than 120 days after the date of the enact-  
17 ment of this Act, the Secretary shall enter into a memo-  
18 randum of understanding with the Secretaries of Health  
19 and Human Services, Housing and Urban Development,  
20 Interior, Labor, and Transportation and the Adminis-  
21 trator of the Environmental Protection Agency to—

- 22 (1) identify strategies to increase equitable ac-  
23 cess to urban forests through existing programs and  
24 authorities;

1           (2) coordinate existing urban forestry pro-  
2 grams;

3           (3) conduct research on the benefits of urban  
4 forests for air quality, heat island mitigation, energy  
5 burden reduction, and enhanced shading for heat-re-  
6 silient housing and active transit; and

7           (4) conduct research on improving coordination  
8 between the agencies to address insects, disease, and  
9 non-native invasive species in urban and community  
10 areas.

## 11 **Subtitle D—International Forests**

### 12 **SEC. 131. SENSE OF CONGRESS.**

13 It is the sense of Congress that—

14           (1) the Trillion Trees Initiative established by  
15 the World Economic Forum should be supported;

16           (2) under such Trillion Trees Initiative, coun-  
17 tries, corporations, and individuals around the globe  
18 will contribute to conserving, restoring, and growing  
19 one trillion trees;

20           (3) one trillion new trees globally would seques-  
21 ter a significant amount of atmospheric carbon and  
22 constitute a pragmatic step towards addressing glob-  
23 al carbon emissions; and

24           (4) under this Act, the United States will—



1 (A) take a leadership role in conserving,  
2 restoring, and growing one trillion trees glob-  
3 ally;

4 (B) use the vast natural assets, robust for-  
5 est products market, and technical expertise of  
6 the United States, to conserve, regenerate,  
7 manage, and utilize domestic forestland; and

8 (C) incentivize the use of sustainable build-  
9 ing products to store carbon.

10 **SEC. 132. INTERNATIONAL FOREST FOUNDATION.**

11 (a) ESTABLISHMENT.—The Administrator of the  
12 United States Agency for International Development may  
13 enter into an agreement with a non-profit organization to  
14 establish an “International Forest Foundation” (in this  
15 section referred to as the “Foundation”), which shall not  
16 be an agency or instrumentality of the United States Gov-  
17 ernment.

18 (b) PURPOSES.—The purposes of the Foundation  
19 shall be—

20 (1) to encourage, accept, and administer private  
21 gifts of money and of real and personal property for  
22 the benefit of, or in connection with, the activities  
23 and services carried out by the United States Agen-  
24 cy for International Development to promote refor-

1       estation, afforestation, and the prevention of defor-  
2       estation around the world;

3               (2) to use private funds to support, undertake,  
4       and conduct activities that further the goals estab-  
5       lished under section 101; and

6               (3) to undertake, conduct, and encourage edu-  
7       cational, technical, and other assistance and other  
8       activities that support international goals to increase  
9       global carbon capture and storage through the pro-  
10      motion of healthy forests and responsible forest  
11      management.

12      (c) TRANSFER OF FUNDS; LIABILITY.—

13              (1) TRANSFER OF FUNDS.—The Administrator  
14      may authorize, pursuant to an agreement entered  
15      into in accordance with this section, the transfer of  
16      funds of the United States Agency for International  
17      Development to a nonprofit organization for the pur-  
18      pose of offsetting any administrative costs of the  
19      Foundation.

20              (2) LIABILITY.—The United States shall not be  
21      liable for any debts, defaults, acts, or omissions of  
22      the Foundation. The full faith and credit of the  
23      United States shall not extend to any obligations of  
24      the Foundation.

1 **SEC. 133. INTERNATIONAL ENGAGEMENT.**

2 (a) IN GENERAL.—To the maximum extent prac-  
3 ticable, the Administrator of the United States Agency for  
4 International Development shall prioritize programs to  
5 support reforestation and afforestation, and to prevent de-  
6 forestation, in developing countries and in regions that  
7 have experienced significant levels of deforestation or  
8 whose biodiversity, local economy, and stability would be  
9 significantly impacted by deforestation or loss of forest  
10 canopy cover around the world.

11 (b) COORDINATION.—In carrying out the programs  
12 prioritized in accordance with subsection (a), the Adminis-  
13 trator shall, to the maximum extent practicable, make use  
14 of public-private partnerships to facilitate engagement by  
15 nonprofit organizations and industry partners.

16 **SEC. 134. GLOBAL CLIMATE CHANGE PROGRAM.**

17 (a) FORESTRY INCLUDED.—Section 2402(c)(2) of  
18 the Global Climate Change Prevention Act of 1990 (7  
19 U.S.C. 6701(c)(2)) is amended by inserting “and for-  
20 estry” after “agriculture”.

21 (b) STUDY OF GLOBAL CLIMATE CHANGE, AGRI-  
22 CULTURE, AND FORESTRY.—Section 2403(b) of the Glob-  
23 al Climate Change Prevention Act of 1990 (7 U.S.C.  
24 6702(b)) is amended—

1           (1) in the first proviso, by striking “The Sec-  
2           retary shall conduct a study” and inserting the fol-  
3           lowing:

4           “‘The Secretary shall, not later than 2 years after the  
5           date of enactment of the Trillion Trees Act, conduct a  
6           study and submit a report to Congress”;

7           (2) in paragraph (2), by striking “and” at the  
8           end;

9           (3) in paragraph (3), by striking the period at  
10          the end and inserting “; and”; and

11          (4) by adding at the end the following:

12          “(5) identify and address programs which could  
13          lead to increased forest carbon stock (as defined in  
14          section 2 of the Trillion Trees Act) globally, healthy  
15          international forest ecosystems, and a globally sus-  
16          tainable forest products market.”.

17          (c) OFFICE OF INTERNATIONAL FORESTRY.—Section  
18          2405(c) of the Global Climate Change Prevention Act of  
19          1990 (7 U.S.C. 6704(c)) is amended—

20          (1) in paragraph (2), by striking the “and” at  
21          the end;

22          (2) in paragraph (3), by striking the period at  
23          the end and inserting “; and”; and

24          (3) by adding at the end the following:

1           “(4) identify and implement programs which  
2           lead to—

3                   “(A) increased forest carbon stock (as de-  
4                   fined in section 2 of the Trillion Trees Act)  
5                   globally;

6                   “(B) healthy international forest eco-  
7                   systems; and

8                   “(C) a globally sustainable forest products  
9                   market.”.

10          (d) **AUTHORIZATION OF APPROPRIATIONS.**—Section  
11 2412 of the Global Climate Change Prevention Act of  
12 1990 (7 U.S.C. 6710) is amended by striking “1991  
13 through 1997” and inserting “2021 through 2025”.

14 **SEC. 135. INTERNATIONAL FORESTRY COOPERATION.**

15          Section 602(b)(1) of the International Forestry Co-  
16 operation Act of 1990 (16 U.S.C. 4501(b)(1)) is amend-  
17 ed—

18                   (1) in subparagraph (G), by striking “and” at  
19                   the end;

20                   (2) in subparagraph (H), by inserting “and” at  
21                   the end; and

22                   (3) by adding at the end the following:

23                           “(I) activities that increase forest carbon  
24                           stock (as defined in section 2 of the Trillion  
25                           Trees Act), including reforestation and

1           afforestation (as such terms are defined in such  
2           section) programs.”.

3 **SEC. 136. MODIFICATIONS TO AUTHORITIES RELATING TO**  
4                                   **TROPICAL FORESTS.**

5           Section 118 of the Foreign Assistance Act of 1961  
6 (22 U.S.C. 2151p–1) is amended as follows:

7           (1) In subsection (a)(2), by inserting “, includ-  
8           ing by reducing global forest carbon stock (as de-  
9           fined in section 2 of the Trillion Trees Act)” before  
10          the period at the end.

11          (2) In subsection (c)(1), by inserting “, refor-  
12          estation (as defined in section 2 of the Trillion Trees  
13          Act),” after “conservation”.

14          (3) In subsection (c)(2)(A), by inserting “and  
15          impact on global carbon emissions” after “irrevers-  
16          ible losses”.

17          (4) In subsection (c)(6), by inserting “(includ-  
18          ing projects to increase forest carbon stock)” after  
19          “sustainable forestry projects and practices”.

20          (5) In subsection (c)(8), by inserting “increas-  
21          ing forest carbon stock (as defined in section 2 of  
22          the Trillion Trees Act),” after “soil conservation,”.

23          (6) In subsection (f), by inserting “and a study  
24          on the total carbon sequestered through increases in  
25          tropical forest carbon stock (as defined in section 2

1 of the Trillion Trees Act) globally as a result of pro-  
2 grams, projects, and activities carried out under this  
3 section” before the period at the end.

4 **TITLE II—CARBON SEQUESTRATION THROUGH IMPROVED**  
5 **FOREST MANAGEMENT ACTIVITIES**

8 **SEC. 201. LAND USE PLANNING; SUPPLEMENTS TO PRO-**  
9 **GRAMMATIC ENVIRONMENTAL IMPACT**  
10 **STATEMENTS.**

11 (a) PRIORITY AREAS.—

12 (1) AREAS IDENTIFIED.—The Secretary shall  
13 designate a landscape-level area on covered land as  
14 a priority area if—

15 (A) the Secretary has identified such area  
16 as having a high or very high risk of wildfire;

17 (B) the completion of covered projects in  
18 such area would reduce the risk of carbon emis-  
19 sions as a result of wildfire or tree mortality;  
20 and

21 (C) the area is covered by an existing pro-  
22 grammatic environmental impact statement ap-  
23 plicable to such covered projects.

24 (2) EFFECT OF IDENTIFICATION.—The Sec-  
25 retary shall prioritize review under section 102(2)(C)

1 of the National Environmental Policy Act of covered  
2 projects in a priority area over the completion of any  
3 other review under such section.

4 (3) DEADLINE FOR IDENTIFICATION.—The Sec-  
5 retary shall establish the priority areas required  
6 under paragraph (1)—

7 (A) in the case of priority areas for water-  
8 shed protection projects, critical infrastructure  
9 protection projects, or wildlife habitat restora-  
10 tion projects, not later than 60 days after the  
11 date of the enactment of this section; and

12 (B) in the case of priority areas for  
13 wildland-urban interface protection projects, not  
14 later than 60 days after the programmatic envi-  
15 ronmental impact statement required under  
16 subsection (b) is completed.

17 (4) REVIEW AND MODIFICATION.—

18 (A) IN GENERAL.—Except with respect to  
19 areas subject to review under subparagraph  
20 (B), not later than 5 years after the date of the  
21 enactment of this section and not less than once  
22 every 5 years thereafter, the Secretary shall re-  
23 view the priority areas established under para-  
24 graph (1) and modify, add, or remove such pri-  
25 ority areas.



1 (B) WILDLAND-URBAN INTERFACE PRO-  
2 TECTION PRIORITY AREAS.—Not later than 5  
3 years after the date on which the programmatic  
4 environmental impact statement required by  
5 subsection (b) is complete and not less than  
6 once every 5 years thereafter, the Secretary  
7 shall review the priority areas established under  
8 paragraph (1) and covered by such statement  
9 and modify, add, or remove such priority areas.

10 (b) PROGRAMMATIC ENVIRONMENTAL IMPACT  
11 STATEMENT FOR WILDLAND-URBAN INTERFACE PRO-  
12 TECTION PROJECTS.—Not later than 5 years after the  
13 date of the enactment of this section, the Secretary shall  
14 complete a programmatic environmental impact statement  
15 in accordance with section 102(2)(C) of the National En-  
16 vironmental Policy Act of 1969 (42 U.S.C. 4332(2)(C))  
17 for wildland-urban interface protection on public lands, in-  
18 cluding with respect to—

19 (1) lands classified as high or very high risk of  
20 wildfire; and

21 (2) areas with at-risk communities (as defined  
22 in section 101 of the Healthy Forest Restoration Act  
23 of 2003 (16 U.S.C. 6511)).

24 (c) COMPLIANCE WITH THE NATIONAL ENVIRON-  
25 MENTAL POLICY ACT.—

1           (1) IN GENERAL.—The requirements of section  
2           102(2)(C) of National Environmental Policy Act of  
3           1969 (42 U.S.C. 4332(2)(C) with respect to a major  
4           Federal action taken under this section shall be  
5           deemed to be met—

6                   (A) for wildland-urban interface protection  
7                   projects proposed after the date of completion  
8                   of the programmatic environmental impact  
9                   statement required by subsection (b), by  
10                  supplementing such programmatic environ-  
11                  mental impact statement and incorporating rel-  
12                  evant additional regional analyses that have  
13                  been completed by Federal agencies since such  
14                  statement was finalized;

15                  (B) for watershed protection projects, by  
16                  supplementing the programmatic environmental  
17                  impact statement entitled “National Forest  
18                  System Land Management Planning” published  
19                  in January 2012 and incorporating relevant ad-  
20                  ditional regional analyses that have been com-  
21                  pleted by Federal agencies since such statement  
22                  was finalized;

23                  (C) for critical infrastructure protection  
24                  projects, by supplementing the programmatic  
25                  environmental impact statement entitled “Des-

1           ignation of Energy Corridors on Federal Land  
2           in the 11 Western States (DOE/EIS–0386)”  
3           published on November 28, 2008 and incor-  
4           porating relevant additional regional analyses  
5           that have been completed by Federal agencies  
6           since such statement was finalized; and

7                   (D) for wildlife habitat restoration  
8           projects, by supplementing the programmatic  
9           environmental impact statement entitled “Na-  
10          tional Forest System Land Management Plan-  
11          ning” published in January 2012 and incor-  
12          porating relevant additional regional analyses  
13          that have been completed by Federal agencies  
14          since such statement was finalized.

15           (2) COORDINATION AND CONSULTATION.—In  
16          developing a supplement under subparagraphs (A)  
17          through (D) of paragraph (1), the Secretary shall  
18          consult and coordinate with—

19                   (A) appropriate State, Tribal, and local  
20          governments;

21                   (B) transmission infrastructure and water  
22          infrastructure owners, operators, and devel-  
23          opers; and

24                   (C) other appropriate entities.

1 (d) ENVIRONMENTAL REVIEW IN PRIORITY  
2 AREAS.—

3 (1) IN GENERAL.—If the Regional Forester de-  
4 termines that a proposed covered project has been  
5 sufficiently analyzed by a previously completed pro-  
6 grammatic environmental impact statement, such  
7 statement shall be deemed to fulfill the requirements  
8 of section 102(2)(C) of the National Environmental  
9 Policy Act of 1969 (42 U.S.C. 4332(2)(C)) with re-  
10 spect to such project. The applicable Regional For-  
11 ester shall publish any such determinations on a  
12 publicly available website.

13 (2) ADDITIONAL ENVIRONMENTAL REVIEW.—If  
14 the Regional Forester determines that a proposed  
15 covered project has not been sufficiently analyzed  
16 under paragraph (1) and additional environmental  
17 review under the National Environmental Policy Act  
18 of 1969 (42 U.S.C. 4321 et seq.) is necessary, the  
19 applicable Regional Forester shall rely on analysis in  
20 previously completed environmental reviews under  
21 such Act in analyzing the potential impacts of the  
22 proposed covered project.

23 (e) REPORTS TO CONGRESS.—Not later than Feb-  
24 ruary 1 of the first fiscal year beginning after the date  
25 of the enactment of this section, and each February 1

1 thereafter, the Secretary shall submit to the relevant com-  
2 mittees a report that includes—

3 (1) a description, with respect to the preceding  
4 year, of the progress of covered projects in priority  
5 areas established under this section; and

6 (2) projections for how such covered projects  
7 will reduce the risk and severity of carbon emissions  
8 from wildfires and tree mortality.

9 (f) DEFINITIONS.—In this section:

10 (1) COVERED LAND.—The term “covered land”  
11 means National Forest System lands that are not  
12 excluded from forest management activities as a re-  
13 sult of—

14 (A) an applicable forest plan;

15 (B) inclusion in the National Wilderness  
16 Preservation System;

17 (C) inclusion within a National or State-  
18 specific inventoried roadless area established by  
19 the Secretary, unless—

20 (i) the forest management activity to  
21 be carried out is consistent with the forest  
22 plan applicable to the area; and

23 (ii) the Secretary, or their designee,  
24 determines the forest management activity

1 is allowed under the roadless rule gov-  
2 erning such lands; or

3 (D) any other Federal law.

4 (2) COVERED PROJECTS.—The term “covered  
5 projects” means critical infrastructure protection  
6 projects, watershed protection projects, wildland-  
7 urban interface protection projects, and wildlife  
8 habitat restoration projects.

9 (3) CRITICAL INFRASTRUCTURE PROTECTION  
10 PROJECT.—The term “critical infrastructure protec-  
11 tion project” means a forest or rangeland manage-  
12 ment project with the primary objective of—

13 (A) reducing the risk of wildfire ignition  
14 within or adjacent to—

15 (i) a utility infrastructure right-of-  
16 way; or

17 (ii) public transportation infrastruc-  
18 ture;

19 (B) protecting public infrastructure from  
20 wildfire; or

21 (C) removing hazard trees and or other  
22 hazardous fuels from a utility infrastructure  
23 right-of-way.

24 (4) RELEVANT COMMITTEES.—The term “rel-  
25 evant committees” means—

1 (A) the Committee on Agriculture, Nutri-  
2 tion, and Forestry of the Senate;

3 (B) the Committee on Energy and Natural  
4 Resources of the Senate;

5 (C) the Committee on Agriculture of the  
6 House of Representatives; and

7 (D) the Committee on Natural Resources  
8 of the House of Representatives.

9 (5) WATERSHED PROTECTION PROJECT.—The  
10 term “watershed protection project” means a forest  
11 or rangeland management project with the objective  
12 of—

13 (A) protecting a municipal or Tribal water  
14 source from damage or destruction caused by  
15 wildfire;

16 (B) improving, maintaining, or restoring  
17 water quality or yield; or

18 (C) any combination of the purposes speci-  
19 fied in subparagraphs (A) through (B).

20 (6) WILDLAND-URBAN INTERFACE PROTECTION  
21 PROJECT.—The term “wildland-urban interface pro-  
22 tection project” means a forest or rangeland man-  
23 agement project which takes place within the bound-  
24 aries of, or adjacent to, an at-risk community (as

1 defined in section 101 of the Healthy Forests Res-  
 2 toration Act of 2003 (16 U.S.C. 6511)).

3 (7) WILDLIFE HABITAT RESTORATION  
 4 PROJECT.—The term “wildlife habitat restoration  
 5 project” means a forest or rangeland management  
 6 project with the primary objective of—

7 (A) protecting, improving, maintaining, or  
 8 restoring wildlife habitat; or

9 (B) protecting, improving, maintaining, re-  
 10 storing, or enhancing management with respect  
 11 to critical habitat (as defined in section 4 of the  
 12 Endangered Species Act of 1973 (16 U.S.C.  
 13 1532)).

14 **SEC. 202. FOREST CARBON STOCK ON STATE AND PRIVATE**  
 15 **FORESTS.**

16 (a) ADDING INCREASING FOREST CARBON STOCK AS  
 17 A PRIORITY.—Section 2(b) of the Cooperative Forestry  
 18 Assistance Act of 1978 (16 U.S.C. 2101) is amended—

19 (1) by redesignating subparagraphs (6) through  
 20 (10) as subparagraphs (7) through (11), respec-  
 21 tively; and

22 (2) by inserting after paragraph (5) the fol-  
 23 lowing:

24 “(6) the encouragement of afforestation (as de-  
 25 fined in section 2 of the Trillion Trees Act), refor-



1       estation, management, and related optimizations of  
2       forest carbon stock (as such terms are defined in  
3       such section) for climate and other ecological bene-  
4       fits;”.

5       (b) SUPPORT FOR STATE ASSESSMENTS AND STRAT-  
6       EGIES FOR FOREST RESOURCES WHEN CONSIDERING  
7       CARBON EMISSIONS.—Section 2A(a)(1) of the Coopera-  
8       tive Forestry Assistance Act of 1978 (16 U.S.C.  
9       2101a(a)(1)) is amended—

10           (1) by redesignating subparagraph (C) and (D)  
11           as subparagraphs (D) and (E), respectively; and

12           (2) by inserting after subparagraph (B) the fol-  
13           lowing:

14                   “(C) the current amount of forest carbon  
15                   stock (as defined in section 2 of the Trillion  
16                   Trees Act and incorporating data from the for-  
17                   est inventory and analysis program under sec-  
18                   tion 3(e)) on State lands and opportunities for  
19                   increased forest carbon stock;”.

20       (c) INCREASING FOREST CARBON STOCK THROUGH  
21       THE FOREST STEWARDSHIP PROGRAM.—Section 5(d)(1)  
22       of the Cooperative Forestry Assistance Act of 1978 (16  
23       U.S.C. 2103a(d)) is amended by inserting “carbon seques-  
24       tration and storage” before “and the aesthetic”.

1 (d) INCREASING FOREST CARBON STOCK THROUGH  
2 THE COMMUNITY FOREST AND OPEN SPACE CONSERVA-  
3 TION PROGRAM.—Section 7A(c)(1)(B)(ii) of the Coopera-  
4 tive Forestry Assistance Act of 1978 (16 U.S.C.  
5 2103d(c)(1)(B)(ii)) is amended by inserting “ increasing  
6 forest carbon stock (as defined in section 2 of the Trillion  
7 Trees Act) and promoting,” after “including”.

8 (e) INCREASING FOREST CARBON STOCK THROUGH  
9 THE PROMOTION OF FOREST HEALTH.—Section 8(a) of  
10 the Cooperative Forestry Assistance Act of 1978 (16  
11 U.S.C. 2104(a)) is amended—

12 (1) by redesignating paragraphs (4) through  
13 (6) as paragraphs (5) through (7); and

14 (2) by inserting after paragraph (3) the fol-  
15 lowing:

16 “(4) protect or enhance forest carbon stock (as  
17 defined in section 2 of the Trillion Trees Act) on  
18 healthy forestland;”.

19 (f) INCREASING FOREST CARBON STOCK THROUGH  
20 THE REDUCTION OF CATASTROPHIC WILDFIRE.—Section  
21 10A(b)(1) of the Cooperative Forestry Assistance Act of  
22 1978 (16 U.S.C. 2106c(b)(1)) is amended—

23 (1) in subparagraph (C), by striking “and” at  
24 the end;

1           (2) in subparagraph (D), by striking the period  
2           and inserting “and” at the end; and

3           (3) by inserting at the end the following:

4                   “(E) to educate the public about the car-  
5                   bon stored in healthy forests and carbon emit-  
6                   ted through wildfire and forest decline.”.

7           (g) INCREASING FOREST CARBON STOCK THROUGH  
8 THE STATE AND PRIVATE FOREST LANDSCAPE-SCALE  
9 RESTORATION.—Section 13A of the Cooperative Forestry  
10 Assistance Act of 1978 (16 U.S.C. 2109a) is amended—

11           (1) in subsection (e)—

12                   (A) in paragraph (6), by striking “and” at  
13                   the end;

14                   (B) by redesignating paragraph (7) as  
15                   paragraph (8); and

16                   (C) by inserting after paragraph (6) the  
17                   following:

18                   “(7) to improve the potential to increase forest  
19                   carbon stock (as defined in section 2 of the Trillion  
20                   Trees Act); and”;

21           (2) in subsection (1), by amending paragraph  
22           (3) to read as follows:

23                   “(3) AUTHORIZATION OF APPROPRIATIONS.—  
24                   There is authorized to be appropriated to the Fund  
25                   \$25,000,000 for each fiscal year beginning with the

1 first full fiscal year after the date of the enactment  
2 of the Trillion Trees Act through fiscal year 2025,  
3 to remain available until expended.”.

4 **SEC. 203. GOOD NEIGHBOR AUTHORITY.**

5 Section 8206 of the Agricultural Act of 2014 (16  
6 U.S.C. 2113a) is amended—

7 (1) in subsection (a)(4)(A)—

8 (A) in clause (ii), by striking “and” at the  
9 end;

10 (B) by redesignating clause (iii) as clause  
11 (iv);

12 (C) by inserting after clause (ii) the fol-  
13 lowing:

14 “(iii) activities to increase forest car-  
15 bon stock (as defined in section 2 of the  
16 Trillion Trees Act), including reforestation  
17 (as defined in such section) activities;”;

18 (D) in clause (iv), as so redesignated, by  
19 striking the period at the end and inserting “;  
20 or”; and

21 (E) by adding at the end the following:

22 “(v) any combination of activities  
23 specified in clauses (i) through (iv).”;

24 (2) in subsection (b)(1), by adding at the end  
25 of the following:

1           “(C) REFORESTATION PRIORITY.—With  
2           respect to forest, rangeland, and watershed res-  
3           toration services described in subsection  
4           (a)(4)(A)(iii), the Secretary of Agriculture may  
5           enter into good neighbor agreements under this  
6           section in accordance with the priorities speci-  
7           fied in subsection (e)(3)(A)(ii) of section 3 of  
8           the Forest and Rangeland Renewable Resources  
9           Planning Act of 1974 (16 U.S.C. 1601).”; and  
10          (3) in subsection (b)(2), by amending subpara-  
11          graph (C) to read as follows:

12           “(C) TREATMENT OF REVENUE.—Funds  
13           received from the sale of timber by a Governor  
14           of a State under a good neighbor agreement  
15           shall be retained and used by the Governor—

16                   “(i) to carry out authorized restora-  
17                   tion services under such good neighbor  
18                   agreement; and

19                   “(ii) if funds are remaining after car-  
20                   rying out the services under clause (i), to  
21                   carry out authorized restoration services  
22                   within the State under other good neighbor  
23                   agreements.”.

1 **SEC. 204. RESEARCH AND DEVELOPMENT PROGRAMS.**

2 Section 3 of the Forest and Rangeland Renewable  
3 Resources Research Act of 1978 (16 U.S.C. 1642) is  
4 amended—

5 (1) in subsection (a), by adding at the end the  
6 following:

7 “(6) Renewable resource assessment research  
8 shall also include, as appropriate, research activities  
9 related to the sequestration of carbon, including the  
10 increased carbon storage through afforestation (as  
11 defined in section 2 of the Trillion Trees Act), refor-  
12 estation (as defined in such section), forest and  
13 rangeland management, and the utilization of wood  
14 and other materials derived from forest and range-  
15 land renewable resources to store carbon in building  
16 materials, industrial and consumer products.”; and

17 (2) in subsection (d)(2), by adding at the end  
18 the following:

19 “(F) Carbon sequestration.”.

20 **TITLE III—MARKET INCENTIVES**  
21 **FOR CARBON SEQUESTRATION**

22 **SEC. 301. BIOCHAR DEMONSTRATION PROJECT AND GRANT**  
23 **PROGRAM.**

24 (a) DEMONSTRATION PROJECTS.—

25 (1) ESTABLISHMENT.—

1           (A) IN GENERAL.—Not later than 2 years  
2           after the date of the enactment of this section,  
3           the Secretaries shall establish a program to  
4           enter into partnerships with eligible entities to  
5           carry out demonstration projects to support the  
6           development and commercialization of biochar  
7           in accordance with this subsection.

8           (B) LOCATION OF DEMONSTRATION  
9           PROJECTS.—The Secretaries shall, to the max-  
10          imum extent practicable, establish at least one  
11          biochar demonstration project in each Forest  
12          Service region.

13          (2) PROPOSALS.—To be eligible to enter into a  
14          partnership to carry out a biochar demonstration  
15          project under paragraph (1)(A), an eligible entity  
16          shall submit to the Secretaries a proposal at such  
17          time, in such manner, and containing such informa-  
18          tion as the Secretaries may require.

19          (3) PRIORITY.—In selecting proposals under  
20          paragraph (2), the Secretaries shall give priority to  
21          partnering with eligible entities that submit pro-  
22          posals to carry out biochar demonstration projects  
23          that—

24                  (A) have the most carbon sequestration po-  
25                  tential;

- 1 (B) will create new jobs and contribute to  
2 local economies, particularly in rural areas;
- 3 (C) will demonstrate—
- 4 (i) new and innovative uses of biochar;
- 5 (ii) viable markets for cost-effective  
6 biochar-based products;
- 7 (iii) the ecosystem services of biochar;
- 8 (iv) the benefits of biochar to restore  
9 forest health and resiliency, including for  
10 forest soils and watersheds; or
- 11 (v) any combination of purposes speci-  
12 fied in clauses (i) through (iv);
- 13 (D) are located in local markets that have  
14 the greatest need for the biochar production  
15 units due to—
- 16 (i) nearby lands identified as having  
17 high or very high or extreme risk of wild-  
18 fire;
- 19 (ii) availability of sufficient quantities  
20 of feedstocks; or
- 21 (iii) a high level of demand for  
22 biochar or other commercial byproducts of  
23 biochar; or
- 24 (E) any combination of purposes specified  
25 in subparagraphs (A) through (D).



1           (4) USE OF FUNDS.—In carrying out the pro-  
2           gram established under paragraph (1)(A), the Secre-  
3           taries may enter into partnerships and provide fund-  
4           ing to carry out demonstration projects that—

5                   (A) acquire and test various feedstocks and  
6                   their efficacy;

7                   (B) develop and optimize commercially and  
8                   technologically viable biochar production units,  
9                   including mobile and permanent units;

10                  (C) demonstrate the production of biochar  
11                  from forest residues and the use of biochar to  
12                  restore forest health and resiliency;

13                  (D) build, expand, or establish biochar fa-  
14                  cilities;

15                  (E) conduct research on new and innova-  
16                  tive uses of biochar or demonstrate cost-effec-  
17                  tive market opportunities for biochar and  
18                  biochar-based products;

19                  (F) carry out any other activities the Sec-  
20                  retaries determine appropriate; or

21                  (G) any combination of the purposes speci-  
22                  fied in subparagraphs (A) through (F).

23           (5) FEEDSTOCK REQUIREMENTS.—To the max-  
24           imum extent practicable, a biochar demonstration  
25           project under this subsection shall, with respect to

1 the feedstock used under such project, derive at  
2 least 50 percent of such feedstock from forest  
3 thinning and management activities, including mill  
4 residues, conducted on National Forest System  
5 lands.

6 (6) REVIEW OF BIOCHAR DEMONSTRATION.—

7 (A) IN GENERAL.—The Secretaries shall  
8 conduct regionally-specific research, including  
9 economic analyses and life-cycle assessments, on  
10 the biochar produced from the demonstration  
11 projects under this subsection, including—

12 (i) the effects of such biochar on—

13 (I) forest health and resiliency;

14 (II) carbon capture and seques-  
15 tration, including increasing soil car-  
16 bon in the short-term and long-term;

17 (III) productivity, reduced input  
18 costs, and water retention in agricul-  
19 tural practices;

20 (IV) soil and grassland health for  
21 grazing activities, including grazing  
22 activities on Federal land;

23 (V) environmental remediation  
24 activities, including abandoned mine  
25 land remediation; and

1 (VI) other ecosystem services of  
2 biochar;

3 (ii) the efficacy of biochar as a co-  
4 product of biofuels or in biochemicals; and

5 (iii) whether biochar can effectively be  
6 used to produce any other technologically  
7 and commercially viable outcome.

8 (B) COORDINATION.—The Secretaries  
9 shall, to the maximum extent practicable, pro-  
10 vide data, analysis, and other relevant informa-  
11 tion collected under subparagraph (A) to eligi-  
12 ble institutions conducting research and devel-  
13 opment activities on biochar pursuant to receiv-  
14 ing a grant under subsection (b).

15 (7) LIMITATION ON FUNDING FOR ESTAB-  
16 LISHING BIOCHAR FACILITIES.—In the case of an el-  
17 igible entity that enters in to a partnership to carry  
18 out a biochar demonstration project under this sub-  
19 section and seeks to establish a biochar facility  
20 under such demonstration project, the Secretaries  
21 may not provide funding to such eligible entity in an  
22 amount greater than 35 percent of the capital cost  
23 of establishing such biochar facility.

24 (b) BIOCHAR RESEARCH AND DEVELOPMENT GRANT  
25 PROGRAM.—

1           (1) ESTABLISHMENT.—The Secretary of Agri-  
2           culture shall establish an applied biochar research  
3           and development grant program to make competitive  
4           grants to eligible institutions to carry out the activi-  
5           ties described in paragraph (3).

6           (2) APPLICATIONS.—To be eligible to receive a  
7           grant under this subsection, an eligible entity shall  
8           submit to the Secretary a proposal at such time, in  
9           such manner, and containing such information as  
10          the Secretary may require.

11          (3) USE OF FUNDS.—An eligible institution  
12          that receives a grant under this subsection shall use  
13          the grant funds to conduct applied research on—

14                (A) the effect of biochar on forest health  
15                and resiliency, accounting for variations in  
16                biochar, soil, climate, and other factors;

17                (B) the effect of biochar on soil health and  
18                water retention, accounting for variations in  
19                biochar, soil, climate, and other factors;

20                (C) the long-term carbon sequestration po-  
21                tential of biochar;

22                (D) the best management practices of  
23                biochar and biochar based-products to—

24                       (i) maximize carbon sequestration  
25                       benefits; and

1                   (ii) maximize the commercial viability  
2                   and application of such products in for-  
3                   estry, agriculture, environmental remedi-  
4                   ation, water quality improvement, and  
5                   other uses;

6                   (E) the regional uses of biochar to increase  
7                   productivity and profitability, including—

8                   (i) uses in agriculture and environ-  
9                   mental remediation; and

10                  (ii) use as a co-product in fuel produc-  
11                  tion;

12                  (F) new and innovative uses from biochar  
13                  byproducts; and

14                  (G) opportunities to expand markets for  
15                  biochar and create jobs, particularly in rural  
16                  areas.

17                  (c) REPORTS.—

18                   (1) REPORT TO CONGRESS.—Not later than 2  
19                   years after the date of the enactment of this section,  
20                   the Secretaries shall submit a report to Congress  
21                   that—

22                   (A) includes policy and program rec-  
23                   ommendations to improve the widespread use of  
24                   biochar;

1 (B) identifies the areas of research needed  
2 to advance biochar commercialization; and

3 (C) identifies barriers to further biochar  
4 commercialization, including permitting and  
5 siting considerations.

6 (2) PRESIDENT’S ANNUAL BUDGET REQUEST.—

7 Beginning 2 years after the date of the enactment  
8 of this section and annually until the date described  
9 in subsection (d), the Secretaries shall include in the  
10 budget materials submitted to Congress in support  
11 of the President’s annual budget request (submitted  
12 to Congress pursuant to section 1105 of title 31,  
13 United States Code) for each fiscal year a report on  
14 the status of the demonstration projects carried out  
15 under subsection (a) and the research and develop-  
16 ment grants carried out under subsection (b).

17 (d) SUNSET.—The authority to carry out this section  
18 shall terminate on the date that is 10 years after the date  
19 of the enactment of this section.

20 (e) DEFINITIONS.—In this section:

21 (1) BIOCHAR.—The term “biochar” means car-  
22 bonized biomass produced by converting feedstock  
23 through reductive thermal processing for non-fuel  
24 uses.

1           (2) ELIGIBLE ENTITY.—The term “eligible enti-  
2           ty” means—

- 3                   (A) State, local, and Tribal governments;  
4                   (B) eligible institutions; and  
5                   (C) private, non-private, or cooperative en-  
6           ties.

7           (3) ELIGIBLE INSTITUTION.—The term “eligi-  
8           ble institution” means land-grant colleges and uni-  
9           versities, including institutions eligible for funding  
10          under the—

- 11                   (A) Act of July 2, 1862;  
12                   (B) Act of August 30, 1890, including  
13          Tuskegee University;  
14                   (C) Public Law 87–788 (commonly known  
15          as the “McIntire-Stennis Act of 1962”); or  
16                   (D) Equity in Educational Land-Grant  
17          Status Act of 1994 (7 U.S.C. 301 note).

18          (4) FEEDSTOCK.—The term “feedstock” means  
19          excess biomass in the form of plant matter or mate-  
20          rials that serves as the raw material for the produc-  
21          tion of biochar.

22          (5) SECRETARIES.—The term “Secretaries”  
23          means—

- 24                   (A) the Secretary of Agriculture, acting  
25          through the Chief of the Forest Service; and

1 (B) the Secretary of Energy, acting  
2 through the Director of the Office of Science.

3 (f) AUTHORIZATION OF APPROPRIATIONS.—There is  
4 authorized to be appropriated \$50,000,000 for each of fis-  
5 cal years 2021 through 2023 to carry out this section.

6 **SEC. 302. SUSTAINABLE BUILDING AND RESIDENCE CRED-**  
7 **IT.**

8 (a) IN GENERAL.—Subpart B of part IV of sub-  
9 chapter A of chapter 1 of the Internal Revenue Code of  
10 1986 is amended by adding at the end the following new  
11 section:

12 **“SEC. 30E. SUSTAINABLE BUILDING AND RESIDENCE CRED-**  
13 **IT.**

14 “(a) IN GENERAL.—There shall be allowed as a cred-  
15 it against the tax imposed by this chapter for the taxable  
16 year an amount equal to the sustainability percentage of—

17 “(1) the taxpayer’s purchase price of a quali-  
18 fying building or residence, and

19 “(2) the taxpayer’s remodeling price of a build-  
20 ing or structure described in subsection (e)(3)(B).

21 “(b) SUSTAINABILITY PERCENTAGE.—For purposes  
22 of this section:

23 “(1) IN GENERAL.—

24 “(A) PURCHASE PRICE.—The sustain-  
25 ability percentage with respect to the purchase



1 price of any qualifying building or residence  
2 shall be a percentage equal to the lesser of—

3 “(i) the percentage by which the sus-  
4 tainability score for such qualifying build-  
5 ing or residence exceeds the average sus-  
6 tainability score for the class to which such  
7 building or residence belongs, or

8 “(ii) 25 percent.

9 “(B) REMODELING PRICE.—The sustain-  
10 ability percentage with respect to the remod-  
11 eling price of a building or structure shall be a  
12 percentage equal to the lesser of—

13 “(i) the percentage by which, after re-  
14 modeling, the sustainability score for such  
15 building or structure exceeds the average  
16 sustainability score for the class to which  
17 such building or structure belongs, or

18 “(ii) 12.5 percent.

19 “(2) SUSTAINABILITY SCORING.—

20 “(A) IN GENERAL.—Not later than 1 year  
21 after the date of the enactment of this section,  
22 the Secretary (in consultation with the Sec-  
23 retary of Energy) shall establish—

24 “(i) a certification process for deter-  
25 mining a sustainability score with respect

1 to any building for purposes of the credit  
2 allowed under this section, and

3 “(ii) an average sustainability score  
4 for different classes of buildings for pur-  
5 poses of the comparison under subsection  
6 (b)(1)(A)(i) or subsection (b)(1)(B)(i).

7 “(B) FACTORS FOR SCORE.—Such score  
8 shall at least take into account the following  
9 factors:

10 “(i) The net carbon emitted during  
11 the production and delivery of materials  
12 used in construction of the building.

13 “(ii) The net carbon emitted during  
14 the operation of the building on a yearly  
15 basis.

16 “(iii) The amount of carbon retained  
17 by the building, taking into account build-  
18 ing construction materials and processes  
19 and continuing use or disposal of carbon in  
20 connection with the use of the building.

21 “(iv) The climate in which the build-  
22 ing is located.

23 “(C) AVERAGE SUSTAINABILITY.—The  
24 classes for which average sustainability scores

1 are determined shall at least take into account  
2 the following distinguishing characteristics:

3 “(i) Residential and commercial build-  
4 ings.

5 “(ii) Multi-family and single-family  
6 residential.

7 “(iii) The size, volume, and intended  
8 use of the building.

9 “(D) UPDATES.—The Secretary (in con-  
10 sultation with the Secretary of Energy) shall  
11 update the sustainability scoring and the sus-  
12 tainability score averages established under sub-  
13 paragraph (A) not less frequently than once  
14 every 5 calendar years.

15 “(E) ADVISORY BOARD.—The Secretary  
16 shall establish a volunteer board that advises  
17 the Secretary on the sustainability score devel-  
18 opment and updates. Such board shall be ap-  
19 pointed at the discretion of the Secretary and  
20 shall include experts in relevant fields, including  
21 energy, construction, transportation, agri-  
22 culture, and labor.

23 “(c) OTHER DEFINITIONS AND SPECIAL RULES.—

1           “(1) PURCHASE PRICE.—The term ‘purchase  
2 price’ means so much of the adjusted basis of the  
3 property as is not attributable to land.

4           “(2) REMODELING PRICE.—The term ‘remod-  
5 eling price’ means the price of remodeling or expan-  
6 sion of a property, as defined by the Secretary after  
7 consultation with the Secretary of Energy.

8           “(3) QUALIFYING BUILDING OR RESIDENCE.—  
9 The term ‘qualifying building or residence’ means,  
10 with respect to a taxpayer—

11                   “(A) any dwelling unit first used as a resi-  
12 dence by the taxpayer, or

13                   “(B) any other building or structure of a  
14 character subject to the allowance for deprecia-  
15 tion and first placed in service by the taxpayer.

16           “(4) CONSTRUCTION.—Any qualifying building  
17 or residence constructed by the taxpayer shall be  
18 treated as purchased by the taxpayer on the date the  
19 taxpayer first occupies the residence, or places such  
20 building in service, as the case may be.

21           “(5) TRANSFER OF CREDIT.—

22                   “(A) IN GENERAL.—If a taxpayer elects  
23 the application of this paragraph for any tax-  
24 able year, the amount of credit determined  
25 under this section for such year which would

1 (but for this paragraph) be allowable to the tax-  
2 payer shall be allowable to the person des-  
3 ignated by the taxpayer. The person so des-  
4 ignated shall be treated as the taxpayer for pur-  
5 poses of this title.

6 “(B) TREATMENT OF AMOUNTS PAID FOR  
7 ASSIGNMENT.—If any amount is paid to the  
8 person who assigns the credit determined under  
9 this section, then no portion of such amount  
10 shall be includible in such person’s gross in-  
11 come.

12 “(6) BASIS ADJUSTMENT.—For purposes of  
13 this subtitle, if a credit is allowed under this section  
14 with respect to any qualified building or residence,  
15 the basis of such building or residence shall be re-  
16 duced by the amount of the credit so allowed.

17 “(7) APPLICATION WITHOUT CREDITS.—

18 “(A) BUSINESS CREDIT TREATED AS PART  
19 OF GENERAL BUSINESS CREDIT.—So much of  
20 the credit which would be allowed under sub-  
21 section (a) for any taxable year (determined  
22 without regard to this paragraph) that is attrib-  
23 utable to property of a character subject to an  
24 allowance for depreciation shall be treated as a

1 credit listed in section 38(b) for such taxable  
2 year (and not allowed under subsection (a)).

3 “(B) PERSONAL CREDIT.—For purposes of  
4 this title, the credit allowed under subsection  
5 (a) for any taxable year (determined after ap-  
6 plication of subparagraph (A)) shall be treated  
7 as a credit allowable under subpart A for such  
8 taxable year.

9 “(8) CARBON STORAGE CERTIFICATION.—  
10 Under the certification process established under  
11 subsection (b)(2)(A), the Secretaries shall addition-  
12 ally establish a process for certifying to the taxpayer  
13 the amount of carbon dioxide stored by a building or  
14 residence as determined under (b)(2)(B)(iii).”.

15 (b) CLERICAL AMENDMENT.—The table of sections  
16 for subpart B of part IV of subchapter A of chapter 1  
17 of such Code is amended by adding at the end the fol-  
18 lowing new item:

“Sec. 30E. Sustainable building and residence credit.”.

19 (c) EFFECTIVE DATE.—The amendments made by  
20 this section shall apply to property purchased after De-  
21 cember 31, 2020.

1 **SEC. 303. CLARIFICATION OF RESEARCH AND DEVELOP-**  
2 **MENT PROGRAM FOR CELLULOSIC BIO-**  
3 **CHEMICAL AND BIOPLASTICS.**

4 (a) IN GENERAL.—The Secretary, acting through the  
5 Research and Development deputy area and the State and  
6 Private Forestry deputy area of the Forest Service, shall  
7 conduct performance-driven research and development and  
8 provide for education and technical assistance for the pur-  
9 pose of facilitating the use of cellulosic biochemical and  
10 bioplastics products in the United States.

11 (b) ACTIVITIES.—In carrying out subsection (a), the  
12 Secretary shall—

13 (1) after collaboration with the forest products  
14 industry, conservation organizations, and institutions  
15 of higher education, conduct research and develop-  
16 ment and provide for education and technical assist-  
17 ance at the Forest Products Laboratory or through  
18 the State and Private Forestry deputy area that  
19 meets measurable performance goals for the achieve-  
20 ment of the priorities listed in subsection (c); and

21 (2) after coordination and collaboration with  
22 the entities referred to in paragraph (1), make com-  
23 petitive grants to institutions of higher education for  
24 such institutions to conduct research and develop-  
25 ment and carry out educational programs and pro-  
26 vide technical assistance.

1 (c) PRIORITIES.—In awarding grants under sub-  
2 section (b)(2), the Secretary shall give priority to applica-  
3 tions from institutions of higher education proposing  
4 projects—

5 (1) to address ways to improve the commer-  
6 cialization of cellulosic biochemical and bioplastics  
7 products;

8 (2) for the conduct of applied research, includ-  
9 ing projects designed—

10 (A) to bring products from benchtop to  
11 production scale; and

12 (B) for end-of-life reuse, recycling, and dis-  
13 posal of the project;

14 (3) which, based upon the lifecycle analysis of  
15 forest carbon stock developed under section 105(e),  
16 will lead to an increase in forest carbon stock  
17 through the extraction of raw materials through the  
18 manufacture of biochemical and bioplastics products;  
19 or

20 (4) to address one or more other research areas  
21 identified by the Secretary, in consultation with con-  
22 servation organizations, institutions of higher edu-  
23 cation, and the forest products industry.

24 (d) TIMEFRAME.—To the maximum extent prac-  
25 ticable, the measurable performance goals for the research



1 and development, education, and technical assistance  
2 under subsection (a) shall be achievable within 5 years.

3 (e) DEFINITIONS.—In this section:

4 (1) CELLULOSIC BIOCHEMICAL PRODUCT.—The  
5 term “cellulosic biochemical product” means any  
6 biochemical, including bioethanol and its derivatives,  
7 that is derived from wood or plant cellulose fiber.

8 (2) CELLULOSIC BIOPLASTICS PRODUCT.—The  
9 term “cellulosic bioplastics product” means any bio-  
10 plastic that is derived from wood or plant cellulose  
11 fiber.

12 (3) INSTITUTION OF HIGHER EDUCATION.—The  
13 term “institution of higher education” has the  
14 meaning given such term in of sections 101 and 102  
15 of the Higher Education Act of 1965 (20 U.S.C.  
16 1001 and 1002).

17 **SEC. 304. TRIBAL AND ALASKA NATIVE BIOMASS DEM-**  
18 **ONSTRATION PROJECT EXTENSION.**

19 (a) TRIBAL BIOMASS.—Section 3(a) of the Tribal  
20 Forest Protection Act of 2004 (25 U.S.C. 3104 note) is  
21 amended by striking “fiscal years 2017 through 2021”  
22 and inserting “fiscal years 2021 through 2025”.

23 (b) ALASKA NATIVE BIOMASS.—Section 202(c)(2) of  
24 the Indian Tribal Energy Development and Self-Deter-  
25 mination Act Amendments of 2017 (25 U.S.C. 3104 note)

- 1 is amended by striking “fiscal years 2017 through 2021”
- 2 and inserting “fiscal years 2021 through 2025”.

○