

116TH CONGRESS  
1ST SESSION

# S. 523

To direct the Secretary of Health and Human Services to develop a national strategic action plan and program to assist health professionals and systems in preparing for and responding to the public health effects of climate change, and for other purposes.

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## IN THE SENATE OF THE UNITED STATES

FEBRUARY 14, 2019

Mr. MARKEY (for himself, Mr. SCHATZ, Mr. WHITEHOUSE, Ms. WARREN, Mr. MERKLEY, and Ms. KLOBUCHAR) introduced the following bill; which was read twice and referred to the Committee on Health, Education, Labor, and Pensions

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## A BILL

To direct the Secretary of Health and Human Services to develop a national strategic action plan and program to assist health professionals and systems in preparing for and responding to the public health effects of climate change, and for other purposes.

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

3 **SECTION 1. SHORT TITLE.**

4 This Act may be cited as the “Climate Change Health  
5 Protection and Promotion Act of 2019”.

1 **SEC. 2. SENSE OF CONGRESS ON PUBLIC HEALTH AND CLI-**  
2 **MATE CHANGE.**

3 (a) FINDINGS.—The U.S. Global Change Research  
4 Program Climate and Health Assessment states that—

5 (1) the impacts of human-induced climate  
6 change are increasing nationwide;

7 (2) rising greenhouse gas concentrations result  
8 in increases in temperature, changes in precipitation,  
9 increases in the frequency and intensity of some ex-  
10 treme weather events, and rising sea levels;

11 (3) these climate change impacts endanger our  
12 health by affecting our food and water sources, the  
13 air we breathe, the weather we experience, and our  
14 interactions with the built and natural environments;  
15 and

16 (4) as the climate continues to change, the risks  
17 to human health continue to grow.

18 (b) SENSE OF CONGRESS.—It is the sense of Con-  
19 gress that—

20 (1) climate change is real;

21 (2) human activity significantly contributes to  
22 climate change;

23 (3) climate change negatively impacts health;

24 (4) climate change disproportionately impacts  
25 communities of color and low-income communities;  
26 and

1           (5) the Federal Government, in cooperation  
2       with international, State, tribal, and local govern-  
3       ments, concerned public, private and Native Amer-  
4       ican organizations, and citizens, should use all prac-  
5       ticable means and measures—

6           (A) to assist the efforts of public health  
7       and health care professionals, first responders,  
8       health care systems, States, the District of Co-  
9       lumbia, territories, municipalities, and Native  
10      American and local communities to incorporate  
11      measures to prepare public health and health  
12      care systems to respond to the impacts of cli-  
13      mate change;

14          (B) to ensure—

15           (i) that the Nation’s public health and  
16       health care professionals have sufficient in-  
17       formation to prepare for and respond to  
18       the adverse health impacts of climate  
19       change;

20           (ii) the application of scientific re-  
21       search in advancing understanding of—

22           (I) the health impacts of climate  
23       change; and

1 (II) strategies to prepare for and  
 2 respond to the health impacts of cli-  
 3 mate change;

4 (iii) the identification of communities  
 5 and populations vulnerable to the health  
 6 impacts of climate change, including in-  
 7 fants, children, pregnant women, the elder-  
 8 ly, individuals with disabilities or pre-exist-  
 9 ing illnesses, low-income populations, and  
 10 unhoused individuals, and the development  
 11 of strategic response plans to be carried  
 12 out by public health and health care pro-  
 13 fessionals for those communities;

14 (iv) the improvement of health status  
 15 and health equity through efforts to pre-  
 16 pare for and respond to climate change;  
 17 and

18 (v) the inclusion of health impacts in  
 19 the development of climate change re-  
 20 sponses;

21 (C) to encourage further research, inter-  
 22 disciplinary partnership, and collaboration  
 23 among stakeholders in order to—

24 (i) understand and monitor the health  
 25 impacts of climate change;

- 1 (ii) improve public health knowledge  
2 and response strategies to climate change;  
3 (iii) identify actions and policies that  
4 are beneficial to health and that mitigate  
5 climate health impacts; and  
6 (iv) develop strategies to address  
7 water-, food-, and vector-borne infectious  
8 diseases and other public health emer-  
9 gencies;
- 10 (D) to enhance preparedness activities, and  
11 health care and public health infrastructure, re-  
12 lating to climate change and health;
- 13 (E) to encourage each and every commu-  
14 nity to learn about the impacts of climate  
15 change on health; and
- 16 (F) to assist the efforts of developing na-  
17 tions to incorporate measures to prepare public  
18 health and health care systems to respond to  
19 the impacts of climate change.

20 **SEC. 3. RELATIONSHIP TO OTHER LAWS.**

21 Nothing in this Act limits the authority provided to  
22 or responsibility conferred on any Federal department or  
23 agency by any provision of any law (including regulations)  
24 or authorizes any violation of any provision of any law (in-

cluding regulations), including any health, energy, environmental, transportation, or any other law or regulation.

**SEC. 4. NATIONAL STRATEGIC ACTION PLAN AND PROGRAM.**

(a) REQUIREMENT.—

(1) IN GENERAL.—The Secretary of Health and Human Services (referred to in this Act as the “Secretary”), on the basis of the best available science, and in consultation pursuant to paragraph (2), shall publish a strategic action plan and establish a program to ensure the public health and health care systems are prepared for and can respond to the impacts of climate change on health in the United States and other nations.

(2) CONSULTATION.—In developing or making any revision to the national strategic action plan and program, the Secretary shall—

(A) consult with the Director of the Centers for Disease Control and Prevention, the Administrator of the Environmental Protection Agency, the Director of the National Institutes of Health, the Undersecretary of Commerce for Oceans & Atmosphere, the Administrator of the National Aeronautics and Space Administration, the Director of the Indian Health Service,

the Secretary of Defense, the Secretary of State, the Secretary of Veterans Affairs, other appropriate Federal agencies, Indian tribes, State and local governments, public health organizations, scientists, representatives of at-risk populations, and other interested stakeholders; and

(B) provide opportunity for public input and consultation with Indian tribes and Native American organizations.

(b) ACTIVITIES.—

(1) NATIONAL STRATEGIC ACTION PLAN.—

(A) IN GENERAL.—Not later than 2 years after the date of enactment of this Act, the Secretary, acting through the Director of the Centers for Disease Control and Prevention, and in collaboration with other Federal agencies as appropriate, shall, on the basis of the best available science, and in consultation with the entities described in subsection (a)(2)(A), publish a national strategic action plan under subparagraph (B) to guide the climate and health program and assist public health and health care professionals in preparing for and responding to the impacts of climate change on public health

1 in the United States and other nations, particu-  
2 larly developing nations.

3 (B) NATIONAL STRATEGIC ACTION PLAN  
4 COMPONENTS.—The national strategic plan  
5 shall include an assessment of the health sys-  
6 tem capacity of the United States to address  
7 climate change including—

8 (i) identifying and prioritizing commu-  
9 nities and populations vulnerable to the  
10 health impacts of climate change;

11 (ii) providing outreach and commu-  
12 nication aimed at public health and health  
13 care professionals and the public to pro-  
14 mote preparedness and response strategies;

15 (iii) providing for programs across  
16 Federal agencies to advance research re-  
17 lated to the impacts of climate change on  
18 health;

19 (iv) identifying and assessing existing  
20 preparedness and response strategies for  
21 the health impacts of climate change;

22 (v) prioritizing critical public health  
23 and health care infrastructure projects;

24 (vi) providing modeling and fore-  
25 casting tools of climate change health im-



1           pacts, including local impacts, where fea-  
 2           sible;

3           (vii) establishing academic and re-  
 4           gional centers of excellence;

5           (viii) providing technical assistance  
 6           and support for preparedness and response  
 7           plans for the health threats of climate  
 8           change in States, municipalities, terri-  
 9           tories, Indian tribes, and developing na-  
 10          tions; and

11          (ix) developing, improving, inte-  
 12          grating, and maintaining domestic and  
 13          international disease surveillance systems  
 14          and monitoring capacity to respond to  
 15          health-related impacts of climate change,  
 16          including on topics addressing—

17               (I) water-, food-, and vector-  
 18               borne infectious diseases and climate  
 19               change;

20               (II) pulmonary effects, including  
 21               responses to aeroallergens and toxic  
 22               exposures;

23               (III) cardiovascular effects, in-  
 24               cluding impacts of temperature ex-  
 25               tremes;

- 1 (IV) air pollution health effects,  
2 including heightened sensitivity to air  
3 pollution;
- 4 (V) harmful algal blooms;
- 5 (VI) mental and behavioral  
6 health impacts of climate change;
- 7 (VII) the health of migrants, ref-  
8 ugees, displaced persons, and vulner-  
9 able communities;
- 10 (VIII) the implications for com-  
11 munities and populations vulnerable  
12 to the health effects of climate  
13 change, as well as strategies for re-  
14 sponding to climate change within  
15 these communities;
- 16 (IX) tribal, local, and commu-  
17 nity-based health interventions for cli-  
18 mate-related health impacts;
- 19 (X) extreme heat and weather  
20 events, including drought;
- 21 (XI) decreased nutritional value  
22 of crops; and
- 23 (XII) disruptions in access to  
24 routine and acute medical care.

1           (2) CLIMATE AND HEALTH PROGRAM.—The  
2       Secretary, acting through the Director of the Cen-  
3       ters for Disease Control and Prevention, and in col-  
4       laboration with other Federal agencies, as appro-  
5       priate, shall ensure that the climate and health pro-  
6       gram established under this section addresses pri-  
7       ority health actions including the following:

8           (A) Serve as a credible source of informa-  
9       tion on the physical, mental, and behavioral  
10      health consequences of climate change for the  
11      United States population and globally.

12          (B) Track data on environmental condi-  
13      tions, disease risks, and disease occurrence re-  
14      lated to climate change.

15          (C) Expand capacity for modeling and  
16      forecasting health effects that may be climate-  
17      related.

18          (D) Enhance the science base to better un-  
19      derstand the relationship between climate  
20      change and health outcomes.

21          (E) Identify locations and population  
22      groups at greatest risk for specific health  
23      threats and effects, such as increased heat  
24      stress, degraded air and water quality, food or  
25      water-related infections, vector-borne illnesses,

1 pulmonary and cardiovascular effects, mental  
2 and behavioral health effects and food, water,  
3 and nutrient insecurity.

4 (F) Communicate the health-related as-  
5 pects of climate change, including risks and as-  
6 sociated costs and ways to reduce them, to the  
7 public, decisionmakers, public health profes-  
8 sionals, and health care providers.

9 (G) Develop partnerships with other gov-  
10 ernment agencies, the private sector, non-  
11 governmental organizations, universities, and  
12 international organizations to more effectively  
13 address domestic and global health aspects of  
14 climate change.

15 (H) Provide leadership to State and local  
16 governments, community leaders, health care  
17 professionals, nongovernmental organizations,  
18 environmental justice networks, faith-based  
19 communities, the private sector and the public,  
20 domestically and internationally, regarding  
21 health protection from climate change effects.

22 (I) Develop and implement preparedness  
23 and response plans for health threats such as  
24 heat waves, severe weather events, and infec-  
25 tious diseases.

1           (J) Provide technical advice and support to  
 2           State and local health departments, the private  
 3           sector, and others in developing and imple-  
 4           menting national and global preparedness meas-  
 5           ures related to the health effects of climate  
 6           change.

7           (K) Promote workforce development by  
 8           helping to ensure the training of a new genera-  
 9           tion of competent, experienced public health  
 10          and health care professionals to respond to the  
 11          health threats posed by climate change.

12       (c) PERIODIC ASSESSMENT AND REVISION.—Not  
 13       later than 4 years after the date of enactment of this Act,  
 14       and every 4 years thereafter, the Secretary shall periodi-  
 15       cally assess, and revise as necessary, the national strategic  
 16       action plan under subsection (b)(1) and the climate and  
 17       health program under subsection (b)(2), to reflect new in-  
 18       formation collected pursuant to the implementation of the  
 19       national strategic action plan and program and otherwise,  
 20       including information on—

- 21           (1) the status of critical environmental health
- 22           indicators and related human health impacts;
- 23           (2) the impacts of climate change on public
- 24           health; and

1           (3) advances in the development of strategies  
2       for preparing for and responding to the impacts of  
3       climate change on public health.

4       (d) IMPLEMENTATION.—

5           (1) IMPLEMENTATION THROUGH HHS.—The  
6       Secretary shall exercise the Secretary’s authority  
7       under this Act and other Federal statutes to achieve  
8       the goals and measures of the national strategic ac-  
9       tion plan and climate and health program.

10          (2) OTHER PUBLIC HEALTH PROGRAMS AND  
11       INITIATIVES.—The Secretary and Federal officials of  
12       other relevant Federal agencies shall administer  
13       public health programs and initiatives authorized by  
14       laws other than this Act, subject to the requirements  
15       of such laws, in a manner designed to achieve the  
16       goals of the national strategic action plan and cli-  
17       mate and health program.

18   **SEC. 5. ADVISORY BOARD.**

19          (a) ESTABLISHMENT.—The Secretary shall, pursuant  
20       to the Federal Advisory Committee Act (5 U.S.C. App.),  
21       establish a permanent science advisory board to be com-  
22       prised of not less than 10 and not more than 20 members.

23          (b) APPOINTMENT OF MEMBERS.—The Secretary  
24       shall appoint the members of the science advisory board  
25       from among individuals who—

1           (1) are recommended by the President of the  
2       National Academy of Sciences and the President of  
3       the National Academy of Medicine; and

4           (2) have expertise in essential public health and  
5       health care services, including those related to vul-  
6       nerable populations, climate change, and other rel-  
7       evant disciplines.

8       The Secretary shall ensure that the science advisory board  
9       includes members with practical or lived experience with  
10      relevant issues.

11      (c) FUNCTIONS.—The science advisory board shall—

12           (1) provide scientific and technical advice and  
13       recommendations to the Secretary on the domestic  
14       and international impacts of climate change on pub-  
15       lic health, populations and regions particularly vul-  
16       nerable to the effects of climate change, and strate-  
17       gies and mechanisms to prepare for and respond to  
18       the impacts of climate change on public health; and

19           (2) advise the Secretary regarding the best  
20       science available for purposes of issuing the national  
21       strategic action plan and conducting the climate and  
22       health program.

1 **SEC. 6. CLIMATE CHANGE HEALTH PROTECTION AND PRO-**  
2 **MOTION REPORTS.**

3 (a) IN GENERAL.—The Secretary shall offer to enter  
4 into an agreement with the National Academies of  
5 Sciences, Engineering, and Medicine, under which such  
6 National Academies will prepare periodic reports to aid  
7 public health and health care professionals in preparing  
8 for and responding to the adverse health effects of climate  
9 change that—

10 (1) review scientific developments on health im-  
11 pacts of climate change; and

12 (2) recommend changes to the national stra-  
13 tegic action plan and climate and health program.

14 (b) SUBMISSION.—The agreement under subsection  
15 (a) shall require a report to be submitted to Congress and  
16 the Secretary and made publicly available not later than  
17 2 years after the date of enactment of this Act, and every  
18 4 years thereafter.

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