

113<sup>TH</sup> CONGRESS  
2<sup>D</sup> SESSION

# S. 2100

To promote the use of clean cookstoves and fuels to save lives, improve livelihoods, empower women, and protect the environment by creating a thriving global market for clean and efficient household cooking solutions.

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IN THE SENATE OF THE UNITED STATES

MARCH 10, 2014

Ms. COLLINS (for herself and Mr. DURBIN) introduced the following bill;  
which was read twice and referred to the Committee on Foreign Relations

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## A BILL

To promote the use of clean cookstoves and fuels to save lives, improve livelihoods, empower women, and protect the environment by creating a thriving global market for clean and efficient household cooking solutions.

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 “Clean Cookstoves and  
5       Fuels Support Act”.

6       **SEC. 2. FINDINGS.**

7       Congress makes the following findings:

1           (1) Nearly half the world’s population cooks  
2 their food over open fires or inefficient, polluting,  
3 and unsafe cookstoves using wood, agricultural  
4 waste, dung, coal, or other solid fuels. Smoke from  
5 the use of these traditional cookstoves and open fires  
6 is associated with a number of chronic and acute  
7 diseases and injuries, including respiratory illnesses  
8 such as pneumonia, heart disease, and cancer, with  
9 women and young children affected disproportion-  
10 ately.

11           (2) The Global Burden of Disease Study 2010  
12 doubled the mortality estimates for exposure to  
13 smoke from cookstoves, referred to as “household air  
14 pollution”, from 2,000,000 to 4,000,000 deaths an-  
15 nually in the developing world, which the Study indi-  
16 cates is more than the deaths from malaria, tuber-  
17 culosis, and HIV/AIDS combined. The Study at-  
18 tributes 3,500,000 deaths to cookstoves smoke expo-  
19 sures indoors and 500,000 deaths to the contribu-  
20 tion of cookstoves to outdoor air pollution. Millions  
21 more are sickened from the toxic smoke and thou-  
22 sands suffer burns annually from open fires or un-  
23 safe cookstoves and fuels. The Study ranks house-  
24 hold air pollution as the fourth worst overall health  
25 risk factor in the world and as the second worst

1 health risk factor in the world for women and girls.  
2 Cookstove smoke exposures are particularly promi-  
3 nent in developing regions of Asia and Africa.

4 (3) The amount of biomass cooking fuel re-  
5 quired each year can reach up to two tons per fam-  
6 ily. Where demand for local biomass outstrips the  
7 natural regrowth of resources, local environmental  
8 degradation and loss of biodiversity often result.

9 (4) Tremendous amounts of time, a burden  
10 shouldered disproportionately by women and chil-  
11 dren, is spent collecting and managing biomass  
12 cooking fuel resources. As nearby fuel supplies dwin-  
13 dle, women are forced to go farther to find fuel to  
14 cook their families' meals. In some regions, women  
15 and girls risk rape and gender-based violence during  
16 the up to 20 hours per week they spend away from  
17 their communities gathering firewood.

18 (5) Recent studies show that black carbon cre-  
19 ated from biomass cookstoves significantly contrib-  
20 utes to regional air pollution and climate change.  
21 Black carbon emissions from residential cookstoves  
22 in developing countries account for an estimated 21  
23 percent of total global inventory, and mitigation in  
24 this sector represents a large potential public health  
25 benefit.

1           (6) The Global Alliance for Clean Cookstoves is  
2           an innovative public-private partnership hosted by  
3           the United Nations Foundation that was created to  
4           enable the adoption of clean and efficient stoves in  
5           100,000,000 homes by 2020. The Alliance works  
6           with public, private, and non-profit partners to over-  
7           come market barriers that currently impede the pro-  
8           duction, deployment, and use of clean cookstoves  
9           and fuels in the developing world.

10           (7) The United States Government has com-  
11           mitted a total of up to \$125,000,000 to the sector,  
12           including approximately \$60,000,000 in research,  
13           \$15,000,000 in field implementation activities, and  
14           up to \$50,000,000 in financing, through the first  
15           five years of the Alliance to help spur the adoption  
16           of clean cookstoves and fuels in 100,000,000 house-  
17           holds by 2020 as follows:

18                   (A) The Department of State has com-  
19                   mitted \$1,020,000 through fiscal year 2015 and  
20                   the United States Agency for International De-  
21                   velopment has committed \$18,400,000 through  
22                   fiscal year 2015.

23                   (B) The Department of Energy has com-  
24                   mitted \$13,200,000 through fiscal year 2016.

1           (C) The Department of Health and  
2 Human Services has committed \$31,690,000  
3 through the National Institutes of Health  
4 through fiscal year 2016 and \$3,900,000  
5 through the Centers for Disease Control and  
6 Prevention through fiscal year 2015.

7           (D) The Environmental Protection Agency  
8 has committed \$9,670,000 through fiscal year  
9 2015.

10          (E) The National Science Foundation has  
11 committed \$1,270,000 through fiscal year  
12 2015.

13          (F) The Overseas Private Investment Cor-  
14 poration has committed up to \$50,000,000  
15 through fiscal year 2016 in debt financing or  
16 insurance that meet their credit and lending  
17 standards to support projects that provide  
18 clean, consistent, and affordable access to en-  
19 ergy and energy savings through the manufac-  
20 ture, sale, and purchase of cookstoves.

21          (8) This commitment targets a wide range of  
22 work, including expanded research on cookstoves  
23 performance, marketing, and adoption; expanded re-  
24 search on the health, climate and air quality benefits

1 of clean cookstoves; and expanded field efforts in  
2 Kenya, Haiti, Bangladesh, and Nigeria.

3 (9) Additional Federal support is being pro-  
4 vided to the Alliance, including by the Department  
5 of Agriculture, the National Oceanic and Atmos-  
6 pheric Administration, and the Peace Corps.

7 (10) The Millennium Challenge Corporation, in  
8 2010, prior to the launch of the Alliance, committed  
9 the largest stoves-related investment to date in Mon-  
10 golia. The commitment of \$45,300,000 focused on  
11 economic growth from energy efficiency and im-  
12 proved air quality.

13 **SEC. 3. ADVANCEMENT OF GLOBAL ALLIANCE FOR CLEAN**  
14 **COOKSTOVES GOAL.**

15 The Secretary of State, in consultation with the Ad-  
16 ministrator of the Environmental Protection Agency, the  
17 Secretary of Energy, the Secretary of Health and Human  
18 Services, the Administrator of the United States Agency  
19 for International Development, the Director of the Na-  
20 tional Science Foundation, the President of the Overseas  
21 Private Investment Corporation, and the heads of other  
22 relevant Federal agencies, and in coordination with rel-  
23 evant international nongovernmental organizations and  
24 private and governmental entities, shall work to advance

1 the goals and work of the Global Alliance for Clean Cook-  
2 stoves, including through—

3           (1) applied research and development to im-  
4 prove design, lower costs, promote technology adop-  
5 tion, conduct health research and evaluation, and de-  
6 velop global industry standards and testing protocols  
7 for cookstoves and fuels in order to help ensure min-  
8 imum standards for efficiency and cleanliness are  
9 met;

10           (2) diplomatic engagement to encourage a com-  
11 mercial market for clean cookstoves and fuels, re-  
12 duce trade barriers, promote consumer awareness,  
13 improve access to large-scale carbon financing, and  
14 foster women-owned businesses along the entire  
15 business value chain;

16           (3) international development projects to help  
17 build commercial businesses to manufacture, market,  
18 distribute, sell, and service clean cookstoves and  
19 fuels;

20           (4) development efforts related to refugee  
21 camps, disaster relief, and long-term humanitarian  
22 and empowerment programs aimed at assisting  
23 women and girls; and

24           (5) financing or insurance to support projects  
25 that provide access to clean, affordable energy and

1 energy savings through the manufacture, sale, and  
2 purchase of clean cookstoves and fuels.

3 **SEC. 4. AUTHORIZATIONS OF APPROPRIATIONS.**

4 (a) DEPARTMENT OF STATE AND UNITED STATES  
5 AGENCY FOR INTERNATIONAL DEVELOPMENT.—There  
6 are authorized to be appropriated out of funds available  
7 to the Department of State and the United States Agency  
8 for International Development such sums as may be nec-  
9 essary for fiscal years 2014 through 2015 to work with  
10 the Global Alliance for Clean Cookstoves and foreign gov-  
11 ernments, including—

12 (1) to engage in a wide range of diplomatic ac-  
13 tivities, including with countries across the globe and  
14 with United States embassies abroad, to support Al-  
15 liance activities and the clean cookstoves and fuels  
16 sector, and to continue the clean cooking initiative  
17 under the Climate and Clean Air Coalition to reduce  
18 emissions of short-lived climate pollutants;

19 (2) to advance programs that support the adop-  
20 tion of affordable cookstoves that require less fuel to  
21 meet household energy needs and release fewer pol-  
22 lutants, as a means to improve health, reduce envi-  
23 ronmental degradation, mitigate climate change, fos-  
24 ter economic growth, and empower women; and

25 (3) to carry out other activities under this Act.



1 (b) DEPARTMENT OF ENERGY.—There are author-  
2 ized to be appropriated to the Secretary of Energy out  
3 of funds available to the Department of Energy such sums  
4 as may be necessary for fiscal years 2014 through 2016  
5 to work with the Global Alliance for Clean Cookstoves, in-  
6 cluding—

7 (1) to conduct research to spur development of  
8 low-cost, low-emission, high-efficiency cookstoves  
9 through research in areas such as combustion, heat  
10 transfer, and materials development;

11 (2) to conduct research to spur development of  
12 low-emission, high-efficiency biomass fuels;

13 (3) to support innovative small businesses in  
14 the United States that are developing advanced  
15 cookstoves and improved cookstove assessment de-  
16 vices; and

17 (4) to carry out other activities under this Act.

18 (c) NATIONAL INSTITUTES OF HEALTH.—There are  
19 authorized to be appropriated to the Secretary of Health  
20 and Human Services out of funds available to the National  
21 Institutes of Health such sums as may be necessary for  
22 fiscal years 2014 through 2016 for the National Institutes  
23 of Health to work with the Global Alliance for Clean Cook-  
24 stoves, including—

1           (1) to support health research and training to  
2           improve the health and lives of those at risk from  
3           household burning of solid fuels, including—

4                   (A) dedicated resources for research on  
5           household air pollution to ensure adoption of  
6           life-saving interventions and policy formulation;  
7           and

8                   (B) regional network research and training  
9           hubs in global environmental health and occu-  
10          pational health with a household air pollution  
11          focus; and

12          (2) to carry out other activities under this Act.

13          (d) CENTERS FOR DISEASE CONTROL AND PREVEN-  
14          TION.—There are authorized to be appropriated to the  
15          Secretary of Health and Human Services out of funds  
16          available to the Centers for Disease Control and Preven-  
17          tion such sums as may be necessary for fiscal years 2014  
18          through 2015 for the Centers for Disease Control and  
19          Prevention to work with the Global Alliance for Clean  
20          Cookstoves, including—

21                   (1) to evaluate cookstove and fuel programs to  
22          better understand their public health benefits and  
23          key determinants of adoption;

24                   (2) to promote a better understanding of the re-  
25          lationship between human exposures and health out-

1 comes from the use of traditional cookstoves and  
2 open fires; and

3 (3) to carry out other activities under this Act.

4 (e) ENVIRONMENTAL PROTECTION AGENCY.—There  
5 are authorized to be appropriated to the Administrator of  
6 the Environmental Protection Agency out of funds avail-  
7 able to the Environmental Protection Agency such sums  
8 as may be necessary for fiscal years 2014 through 2015  
9 for the Environmental Protection Agency to work with the  
10 Global Alliance for Clean Cookstoves, including—

11 (1) to conduct cookstove and fuel testing and  
12 evaluation in the lab and field, including evaluation  
13 of fuel efficiency and air pollutant emissions that af-  
14 fect human health and the environment, and to de-  
15 velop international standards regarding fuel use,  
16 emissions, and safety of cookstoves and fuels;

17 (2) to conduct climate, health, and air quality  
18 research, including with United States institutions of  
19 higher education, on the air quality and climatic  
20 benefits of interventions for cookstoves and residen-  
21 tial burning, and to continue the cookstoves initia-  
22 tive under the Climate and Clean Air Coalition to re-  
23 duce emissions of short-lived climate pollutants; and

24 (3) to carry out other activities under this Act.

1 (f) NATIONAL SCIENCE FOUNDATION.—There are  
2 authorized to be appropriated to the Director of the Na-  
3 tional Science Foundation out of funds available to the  
4 National Science Foundation such sums as may be nec-  
5 essary for fiscal years 2014 through 2015 for the National  
6 Science Foundation to work with the Global Alliance for  
7 Clean Cookstoves, including—

8 (1) to support research related to the climate,  
9 air quality, and health benefits of the adoption of  
10 clean cookstoves and fuels; and

11 (2) to carry out other activities under this Act.

12 (g) DEPARTMENT OF AGRICULTURE.—There are au-  
13 thorized to be appropriated to the Secretary of the Depart-  
14 ment of Agriculture out of funds available to the Depart-  
15 ment of Agriculture such sums as may be necessary for  
16 fiscal years 2014 through 2015 for the Department of Ag-  
17 riculture to work with the Global Alliance for Clean Cook-  
18 stoves, including—

19 (1) to provide technical expertise on policy  
20 questions facing the cookstoves sector and to help  
21 align the Alliance with ongoing international efforts  
22 that promote the sustainable production and use of  
23 clean burning biomass cooking fuels, to optimize  
24 natural resource conservation and agricultural pro-  
25 ductivity; and

1           (2) to carry out other activities under this Act.

2           (h) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN-  
3 ISTRATION.—There are authorized to be appropriated to  
4 the Administrator of the National Oceanic and Atmos-  
5 pheric Administration (NOAA) out of funds available to  
6 NOAA such sums as may be necessary for fiscal years  
7 2014 through 2015 for NOAA to work with the Global  
8 Alliance for Clean Cookstoves, including—

9           (1) to partner with scientists in other countries  
10       to monitor global black carbon emissions and assess  
11       climate impacts and benefits of switching to clean  
12       cookstoves; and

13           (2) to carry out other activities under this Act.

14           (i) PEACE CORPS.—There are authorized to be ap-  
15 propriated to the Director of the Peace Corps out of funds  
16 available to the Peace Corps such sums as may be nec-  
17 essary for fiscal years 2014 through 2015 for the Peace  
18 Corps to work with the Global Alliance for Clean Cook-  
19 stoves, including—

20           (1) to train community members to select, con-  
21       struct, and maintain clean cookstoves and fuels, pro-  
22       vide ongoing support to sustain their use, and help  
23       families, schools, and others access grants to lower  
24       the cost; and

25           (2) to carry out other activities under this Act.

1           (j) FUTURE YEARS FUNDING.—It is the sense of  
2 Congress that the departments and agencies referenced in  
3 this section should be provided sufficient funding in future  
4 fiscal years to fund commitments related to work with the  
5 Global Alliance for Clean Cookstoves.

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