

AUTHENTICATED U.S. GOVERNMENT INFORMATION

GPO

To improve the health and academic achievement of students in highly polluted environments, and for other purposes.

IN THE SENATE OF THE UNITED STATES

February 27, 2020

Mr. BOOKER introduced the following bill; which was read twice and referred to the Committee on Health, Education, Labor, and Pensions

A BILL

To improve the health and academic achievement of students in highly polluted environments, 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 "Clean Air Sharp Minds"

5 Act".

6 SEC. 2. PURPOSES.

- 7 The purposes of this Act are—
- 8 (1) to improve the health and academic achieve-
- 9 ment of students in highly polluted environments;

1	(2) to demonstrate the impacts of clean air at
2	school on student learning and well-being; and
3	(3) to support the Nation's schools to advance
4	environmental justice.
5	SEC. 3. FINDINGS.
6	Congress finds the following:
7	(1) Substantial research demonstrates that air
8	pollution negatively impacts health and cognition.
9	(2) More than 1 in 5 public schools in the
10	United States are located within a mile of a toxic re-
11	lease site. Nearly 1 in 11 public schools, serving
12	4,400,000 students, are less than 500 feet from a
13	major road.
14	(3) According to a 2017 report, 4 percent of
15	schools serving predominantly White students are
16	next to major roads, while 15 percent of schools
17	serving largely students of color are next to major
18	roads.
19	(4) Indoor levels of air pollutants can be 2 to
20	5 times higher, and sometimes 100 times higher,
21	than outdoor levels. In 2014, nearly half of schools
22	in the United States reported having problems re-
23	lated to indoor air quality.

(5) Schools in poor repair may have additional
 air quality problems, including lead, asbestos, dust,
 and radon contamination.

4 (6) Poor indoor air quality increases the risk of
5 severe asthma attacks and allergic reactions. Asthma
6 is the leading cause of missed school days in the
7 United States.

8 (7) High-performance air filters can decrease9 indoor particulate matter by 90 percent.

10 (8) Research demonstrates the potential for 11 school air filters to improve student learning. In 12 2016, commercial air filters were installed in every 13 classroom, office, and common area of 18 public 14 schools in Los Angeles. Controlling for student de-15 mographics, mathematics test scores at these schools 16 improved dramatically, nearly matching the impact 17 of reducing class sizes by a third, and gains per-18 sisted the following the year.

19 SEC. 4. DEFINITIONS.

20 In this Act:

(1) ADMINISTRATOR.—The term "Administrator" means the Administrator of the Environmental Protection Agency.

1	(2) Commercial Air Filter.—The term
2	"commercial air filter" means an air filter unit
3	that—
4	(A) removes particulate matter (including
5	mold, smoke, dust, lead, soot, and allergens
6	from pests) and gaseous pollutants (including
7	carbon monoxide, sulfur dioxide, and volatile or-
8	ganic compounds);
9	(B) does not produce any ozone;
10	(C) meets the American Society of Heat-
11	ing, Refrigerating, and Air-Conditioning Engi-
12	neers (ASHRAE) Minimum Efficiency Report-
13	ing Value (MERV) of 13 (or the equivalent,
14	using a different rating system); and
15	(D) contains activated carbon (charcoal)
16	and a HEPA particle filter.
17	(3) ELIGIBLE SCHOOL.—The term "eligible
18	school" means a public elementary school or sec-
19	ondary school, as such terms are defined in section
20	8101 of the Elementary and Secondary Education
21	Act of 1965 (20 U.S.C. 7801).
22	(4) Environmental justice.—The term "en-
23	vironmental justice" means the fair treatment and
24	meaningful involvement of all individuals, regardless
25	of race, color, national origin, educational level, or

- income, with respect to the development, implemen-2 tation, and enforcement of environmental laws, regu-3 lations, and policies to ensure that—
 - (A) populations of color, communities of color, indigenous communities, and low-income communities have access to public information and opportunities for meaningful public participation relating to human health and environmental planning, regulations, and enforcement;
- 10 (B) no population of color or community of 11 color, indigenous community, or low-income 12 community shall be exposed to a dispropor-13 tionate burden of the negative human health 14 and environmental impacts of pollution or other 15 environmental hazards; and
- 16 (C) the "17 Principles of Environmental 17 Justice", written and adopted at the First Na-18 tional People of Color Environmental Leader-19 ship Summit held on October 24 through 27, 20 1991, in Washington, DC, are upheld.
- 21 (5) SECRETARY.—The term "Secretary" means 22 the Secretary of Education.

23 SEC. 5. DEMONSTRATION PROGRAM AUTHORIZED.

24 (a) IN GENERAL.—Not later than 6 months after the 25 date of enactment of this Act, the Secretary and the Ad-

1

4

5

6

7

8

9

ministrator shall enter into a memorandum of under standing to jointly administer the School Air Filters Dem onstration Program described in this section for a 3-year
 period.

5 (b) SELECTION OF ELIGIBLE SCHOOLS.—

6 (1) SELECTION OF ELIGIBLE SCHOOLS.—Not 7 later than 12 months after the date of enactment of 8 this Act, the Secretary and the Administrator shall 9 select a minimum of 175 eligible schools to partici-10 pate in the School Air Filters Demonstration Pro-11 gram.

(2) PRIORITY.—In selecting eligible schools
under this subsection, the Secretary and the Administrator shall do so with the purpose of advancing
environmental justice, giving priority—

16 (A) first, to eligible schools that are lo17 cated in a nonattainment area for PM2.5,
18 PM10, or ozone;

19 (B) second, to eligible schools that have
20 school facilities that pose a severe health and
21 safety threat to students and staff; and

(C) third, to eligible schools that have a
high concentration of students from a low-income family.

1	(3) Considerations in selection.—In se-
2	lecting eligible schools under this subsection, the
3	Secretary and the Administrator—
4	(A) shall seek to select eligible schools that
5	represent—
6	(i) a mix of elementary schools, mid-
7	dle schools, and high schools; and
8	(ii) a mix of urban, suburban, and
9	rural schools; and
10	(B) may consider any other eligibility re-
11	quirements that the Secretary and the Adminis-
12	trator determine are necessary to carry out the
13	purposes of this Act.
14	(c) Agreement To Participate.—The Secretary
15	and the Administrator shall seek to enter into a written
16	agreement with each eligible school selected under sub-
17	section (b) to ensure that the eligible school desires to par-
18	ticipate in the School Air Filters Demonstration Program.
19	The Secretary and the Administrator shall carry out the
20	activities under subsection (d) only with respect to partici-
21	pating eligible schools that enter into such an agreement.
22	(d) USE OF FUNDS.—
23	(1) IN GENERAL.—The Secretary and the Ad-
24	ministrator shall—

1	(A) purchase commercial air filters for the
2	buildings of each participating eligible school;
3	(B) install a commercial air filter in every
4	classroom, office, and common area that stu-
5	dents access in each such school;
6	(C) maintain those air filters for a period
7	of 3 years, including by ensuring the replace-
8	ment of the internal carbon filters of those air
9	filters according to a frequency as indicated by
10	the manufacturer;
11	(D) provide technical support to eligible
12	schools participating in the program, including
13	training school staff on how to properly use the
14	air filters; and
15	(E) using not more than 3.5 percent of the
16	funds appropriated under subsection (f), collect,
17	analyze, and submit data that is necessary for
18	the report and evaluation described in sub-
19	section (e).
20	(2) Use of contractor.—
21	(A) IN GENERAL.—Subject to subpara-
22	graph (B), the activities described in subpara-
23	graphs (B) and (C) of paragraph (1) may be
24	carried out by an entity that—

8

1	(i) has a contract to do so with the
2	Administrator; and
3	(ii) has a State or local license or cer-
4	tification from a relevant professional or-
5	ganization allowing the entity to install
6	and maintain air filter units.
7	(B) Collective bargaining agree-
8	MENT.—Notwithstanding subparagraph (A), if
9	a school or local educational agency's collective
10	bargaining agreement stipulates that a school
11	staff member carry out the activities described
12	in subparagraphs (B) or (C) of paragraph (1),
13	the Administrator shall coordinate with the
14	local educational agency to arrange for school
15	staff to carry out those activities. Nothing in
16	this Act shall be construed to interfere with a
17	collective bargaining agreement.
18	(e) REPORTS AND EVALUATION.—
19	(1) ANNUAL REPORTS.—The Secretary and the
20	Administrator shall prepare and submit to Congress
21	an annual report containing—
22	(A) metrics that demonstrate the indoor
23	air quality (at a minimum, PM2.5 levels, as
24	well as any other air pollutants that the Admin-
25	istrator determines necessary to test) at 3 loca-

9

1	tions within each participating eligible school
2	before installation of the commercial air filters,
3	and subsequently twice per academic year, en-
4	suring that the locations of that testing are
5	kept consistent for each test);
6	(B) the pollutants that are captured by the
7	air filters at participating eligible schools, as
8	determined by annual tests conducted on the
9	used air filters;
10	(C) metrics that demonstrate the academic
11	outcomes of students at each participating eligi-
12	ble school (including standardized test scores);
13	(D) rates of suspension at each partici-
14	pating eligible school; and
15	(E) rates of school absence by students at
16	each participating eligible school, including
17	rates of school absence relating to asthma and
18	other health measures.
19	(2) EVALUATION.—At the end of the 3-year
20	School Air Filters Demonstration Program, the Sec-
21	retary and the Administrator shall prepare and sub-
22	mit a report to Congress that includes an evaluation
23	of the effectiveness of the School Air Filters Dem-
24	onstration Program, including an analysis of the im-
25	pact of the commercial air filters on student aca-

demic achievement and well-being, and on the pro gram's potential to advance environmental justice.
 The evaluation shall include recommendations based
 on the findings from the School Air Filters Dem onstration Program.

6 (f) AUTHORIZATION OF APPROPRIATIONS.—There
7 are authorized to be appropriated to carry out this Act
8 \$20,000,000 for fiscal year 2021.

 \bigcirc