

116TH CONGRESS 1ST SESSION

H. R. 5450

To amend title 51, United States Code, to require a National Aeronautics and Space Administration initiative on reduction of greenhouse gas emissions and noise emissions from aircraft, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

DECEMBER 17, 2019

Mr. Beyer (for himself, Mr. Tonko, Ms. Bonamici, Ms. Norton, Mr. Rouda, Mr. Khanna, Mr. Thompson of Mississippi, Mr. Huffman, Ms. Eshoo, Mr. Quigley, Mr. Neguse, Mr. Grijalva, Mr. Lowenthal, Mr. Sherman, Mr. Suozzi, Ms. Schakowsky, and Mr. Blumenauer) introduced the following bill; which was referred to the Committee on Science, Space, and Technology

A BILL

To amend title 51, United States Code, to require a National Aeronautics and Space Administration initiative on reduction of greenhouse gas emissions and noise emissions from aircraft, 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 "Cleaner, Quieter Air-
- 5 planes Act".

1 SEC. 2. FINDINGS.

- 2 Congress makes the following findings:
- 3 (1) Air travel currently contributes approxi-4 mately 3 percent to global carbon emissions, but 5 emissions from this sector are expected to triple by 6 2050.
- 7 (2) A healthy, thriving aviation sector contrib-8 utes to the quality of life and economic well-being of 9 the United States. In 2014, the Federal Aviation 10 Administration found that civil aviation accounted 11 for 5.1 percent of the United States gross domestic 12 product, generated \$1.6 trillion, and supported 13 10,600,000 jobs.
 - (3) Existing aircraft technologies contribute to noise pollution that has adverse impacts on the quality of life in affected communities. As air traffic volumes increase and the adoption of performance-based navigation technology proceeds, the problem of noise pollution is becoming more severe in some areas.
 - (4) The United States has adopted a goal of carbon-neutral growth in aviation from 2020.
 - (5) Research on technologies to lessen the environmental and noise impacts of aviation is ongoing, but should accelerate, and should include work on the further maturation and integration of multiple

14

15

16

17

18

19

20

21

22

23

24

25

26

1	enabling technologies on production aircraft, includ-
2	ing novel integrated systems at the aircraft level.
3	SEC. 3. NATIONAL AERONAUTICS AND SPACE ADMINISTRA-
4	TION INITIATIVE ON REDUCTION OF GREEN-
5	HOUSE GAS EMISSIONS AND NOISE EMIS-
6	SIONS FROM AIRCRAFT.
7	(a) Initiative Required.—Section 40112 of title
8	51, United States Code, is amended—
9	(1) by redesignating subsections (b) through (e)
10	as subsections (c) through (f), respectively; and
11	(2) by inserting after subsection (a) the fol-
12	lowing new subsection (b):
13	"(b) Technologies for Greenhouse Gas Emis-
14	SIONS AND NOISE EMISSIONS REDUCTION.—
15	"(1) Initiative required.—The Adminis-
16	trator shall establish an initiative to build upon and
17	accelerate previous or ongoing work to develop and
18	demonstrate new technologies, including systems ar-
19	chitecture, components, or integration of systems
20	and airframe structures, in aircraft concepts that
21	are capable of reducing both greenhouse gas emis-
22	sions and noise emissions from aircraft by at least
23	50 percent compared to the highest-performing air-
24	craft technologies in service as of December 31,
25	2019, with the goal of deploying new technologies

developed pursuant to the initiative on regional transport aircraft intended to enter into service by 2030 and on single-aisle aircraft designed to accommodate more than 125 passengers intended to enter into service by 2040.

"(2) APPROACH.—In carrying out the initiative, the Administrator shall do the following:

"(A) Continue and expand work of the Administration on research, development, and demonstration of aircraft concepts described in paragraph (1), and the integration of related advanced technologies and concepts, with the goal of carrying out test flights by 2025.

"(B) To the extent practicable, work with multiple partner organizations, including current commercial production aircraft providers and small businesses and new entrants, on research and development activities related to both regional transport aircraft and aircraft designed to accommodate more than 125 passengers in order to achieve an industry-wide shift towards aircraft concepts for the reduction of greenhouse gas emissions and noise emissions.

1 "(C) Provide guidance to the Federal Avia-2 tion Administration (FAA) on technologies de-3 veloped and tested pursuant to the initiative in 4 order to assist the work of the Federal Aviation Administration to identify new requirements for 6 policy, infrastructure, and administrative capac-7 ity necessary to enable the safe deployment of 8 such technologies on transport category air-9 craft.".

- 10 (b) REPORTS.—Not later than 180 days after the date of the enactment of this Act and annually thereafter, 11 12 the Administrator of the National Aeronautics and Space Administration shall submit to Congress a report on the progress of the work under the initiative required by sub-14 15 section (b) of section 40112 of title 51, United States Code (as amended by subsection (a) of this section), in-16 cluding a description of any perceived obstacles to achieving the goal of a 50-percent reduction in both greenhouse 18 19 gas emissions and noise emissions from aircraft as contemplated for the initiative. 20
- 21 (c) AUTHORIZATION OF APPROPRIATIONS.—There is 22 authorized to be appropriated for the National Aero-23 nautics and Space Administration for the initiative re-24 quired by subsection (b) of section 40112 of title 51, 25 United States Code (as so amended), amounts as follows:

(1) For fiscal year 2021, \$125,000,000.
(2) For fiscal year 2022, \$225,000,000.
(3) For each of fiscal years 2023 and 2024,
\$275,000,000.
(4) For fiscal year 2025, \$225,000,000.
(5) For fiscal year 2026, \$75,000,000.

 \bigcirc