117TH CONGRESS 2D SESSION

H. R. 8991

To direct the Administrator of the Environmental Protection Agency to conduct a measurement-based national methane research pilot study to quantify methane emissions from certain oil and gas infrastructure, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

September 28, 2022

Ms. Johnson of Texas (for herself, Ms. Lofgren, Ms. Bonamici, Ms. Stevens, and Ms. Sherrill) introduced the following bill; which was referred to the Committee on Science, Space, and Technology

A BILL

To direct the Administrator of the Environmental Protection Agency to conduct a measurement-based national methane research pilot study to quantify methane emissions from certain oil and gas infrastructure, 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 "Methane Emissions
- 5 Research Act of 2022".

1 SEC. 2. NATIONAL METHANE RESEARCH PILOT STUDY.

2	(a) In General.—The Administrator, in consulta-
3	tion with the Secretary of Energy, the Administrator of
4	the National Aeronautics and Space Administration, the
5	Administrator of the National Oceanic and Atmospheric
6	Administration, the Administrator of the Pipeline and
7	Hazardous Materials Safety Administration, the Director
8	of the National Institute of Standards and Technology,
9	and the heads of other Federal agencies as appropriate
10	shall conduct a measurement-based national methane re-
11	search pilot study (in this section referred to as the "pilot
12	study") to quantify methane emissions from covered oil
13	and gas infrastructure. The Administrator shall employ a
14	technology or suite of technologies for methane emissions
15	measurement, research, and analysis. To the extent prac-
16	ticable, the Administrator shall consider utilizing innova-
17	tive technologies for methane emissions measurement and
18	quantification.
19	(b) Requirements.—The pilot study shall—
20	(1) encompass two regions, which shall be de-
21	termined by the Administrator;
22	(2) identify areas consisting primarily of cov-
23	ered oil and gas infrastructure within each such re-
24	gion;

- 1 (3) develop and implement methodologies and 2 procedures for a measurement-based evaluation of 3 methane emissions from such infrastructure;
 - (4) assess diverse approaches to the characterization of methane emissions from such infrastructure; and
- (5) consult with Federal, State, local, academic,
 nonprofit, and private sector entities, as appropriate.
- 9 (c) Report.—Not later than two years after the date 10 of the enactment of this Act, the Administrator shall sub11 mit to the appropriate committees of Congress, and make 12 publicly available, a report assessing the results of the 13 pilot study. The report shall include the following:
 - (1) An overview of the findings of the pilot study pertaining to the quantification and characterization of methane emissions from covered oil and gas infrastructure.
 - (2) An analysis of how the pilot study could support and inform the development and implementation of a national methane census study (in this section referred to as the "methane census"), to be undertaken on a recurring basis and encompass all seven regions. Such analysis shall also examine the following:

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1	(A) The feasibility of evaluating the
2	amount of methane emissions from covered oil
3	and gas infrastructure by region, industry seg-
4	ment, type of emission source, or any other cri-
5	terion, as a component of the methane census.
6	(B) The necessary scope of measurement-
7	based activities within regions in order to carry
8	out the methane census.
9	(C) Any onshore or offshore gaps within
10	the scope of the pilot study that could merit in-
11	clusion as a part of the methane census.
12	(D) The estimated budget that would be
13	required to oversee the methane census.
14	(E) Any other relevant topic, as deter-
15	mined by the Administrator.
16	(3) An analysis of how the measurement-based
17	evaluation of methane emissions from covered oil
18	and gas infrastructure, as completed by the pilot
19	study or contemplated for the methane census, could
20	support efforts to reconcile data generated by top-
21	down methods and bottom-up methods with respect
22	to the Environmental Protection Agency's Inventory

of U.S. Greenhouse Gas Emissions and Sinks. Such

analysis shall also examine the following:

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1	(A) How methane emissions data from the
2	pilot study or methane census could be utilized
3	as a part of a reconciliation process to better
4	understand and improve data estimates from
5	both top-down methods and bottom-up methods.
6	(B) How methane emissions data from the
7	pilot study or methane census could identify
8	and help to explore any significant discrep-
9	ancies between top-down methods and bottom-
10	up methods for methane emissions from covered
11	oil and gas infrastructure.
12	(C) Any other relevant topic, as deter-
13	mined by the Administrator.
14	(4) A description of any research or technology
15	gaps that were identified during the course of the
16	pilot study and could merit additional study to sup-
17	port the improvement of methane emissions meas-
18	urement and quantification.
19	(5) A description of the methodology of the
20	pilot study, which, to the greatest extent possible
21	and consistent with appropriate protections for con-
22	fidential business information and intellectual prop-
23	erty, shall include a discussion of the following:
24	(A) Study design.

(B) Measurement techniques.

1	(C) Efforts to account for additional sig-
2	nificant sources of methane emissions within a
3	region.
4	(D) Assumptions and uncertainties in the
5	results of the pilot study.
6	(d) Methane Emissions Data Interoper-
7	ABILITY.—The Administrator, to the greatest extent pos-
8	sible, shall ensure that all data collected as part of the
9	pilot study adheres to data and metadata standards to
10	support the public findability, accessibility, interoper-
11	ability, and reusability of such data. The Administrator
12	shall consult with the heads of other Federal agencies, as
13	appropriate, to—
14	(1) facilitate effective data sharing regarding
15	methane emissions measurement and quantification
16	data; and
17	(2) ensure that methane emissions measure-
18	ment and quantification data gathered by such other
19	Federal agencies can be converted to a format that
20	is consistent with the methodologies and procedures
21	of the pilot study.
22	(e) AUTHORIZATION OF APPROPRIATIONS.—There is
23	authorized to be appropriated to carry out this section
24	\$20,000,000, to remain available until expended.
25	(f) Definitions.—In this section:

- 1 (1) ADMINISTRATOR.—The term "Adminis-2 trator" means the Administrator of the Environ-3 mental Protection Agency.
 - (2) APPROPRIATE COMMITTEES OF CONGRESS.—The term "appropriate committees of Congress" means the Committee on Science, Space, and Technology of the House of Representatives and the Committee on the Environment and Public Works of the Senate.
 - (3) COVERED OIL AND GAS INFRASTRUC-TURE.—The term "covered oil and gas infrastructure" means the infrastructure used for the production, gathering and boosting, processing, transmission, and storage of oil and natural gas in the United States. Such term does not include oil and gas distribution infrastructure.
 - (4) REGION.—The term "region" means any of the seven oil and gas regions evaluated by the U.S. Energy Information Administration in its July 2022 Drilling Productivity Report.

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