AM	MENDMENT NO	Calendar No			
Pu	Purpose: In the nature of a substitute.				
IN	THE SENATE OF THE UNITED	STATES—116th Cong., 1st Sess.			
	S. 16	85			
То	commercially viable technol	nergy to establish a programment, and demonstration of ogies for the capture of carage the generation of natural			
R	Referred to the Committee on ordered to b				
	Ordered to lie on the ta	ble and to be printed			
Ам	TENDMENT IN THE NATURE to be proposed by Mr. Cassidy)	OF A SUBSTITUTE intended			
Viz	<b>z</b> :				
1	Strike all after the enac	ting clause and insert the fol-			
2	lowing:				
3	SECTION 1. SHORT TITLE.				
4	This Act may be cited a	s the "Launching Energy Ad-			
5	vancement and Development	through Innovations for Nat-			
6	ural Gas Act of 2019".				

1	SEC. 2. NATURAL GAS CARBON CAPTURE RESEARCH, DE-
2	VELOPMENT, AND DEMONSTRATION PRO-
3	GRAM.
4	(a) In General.—Subtitle F of title IX of the En-
5	ergy Policy Act of 2005 (42 U.S.C. 16291 et seq.) is
6	amended by adding at the end the following:
7	"SEC. 969. NATURAL GAS CARBON CAPTURE RESEARCH,
8	DEVELOPMENT, AND DEMONSTRATION PRO-
9	GRAM.
10	"(a) DEFINITIONS.—In this section:
11	"(1) Commercially viable technology.—
12	The term 'commercially viable technology' means
13	technology that has the potential to be successfully
14	deployed and compete effectively in the marketplace
15	at an appropriate size or scale.
16	"(2) Eligible entity.—The term 'eligible en-
17	tity' means an entity that documents to the satisfac-
18	tion of the Secretary that—
19	"(A) the entity is financially responsible;
20	and
21	"(B) the entity will provide sufficient in-
22	formation to the Secretary to enable the Sec-
23	retary to ensure that any funds awarded to the
24	entity are spent efficiently and effectively.
25	"(3) Natural gas.—The term 'natural gas'
26	means any fuel consisting in whole or in part of—

1	"(A) natural gas;
2	"(B) liquid petroleum gas;
3	"(C) synthetic gas derived from petroleum
4	or natural gas liquids;
5	"(D) any mixture of natural gas and syn-
6	thetic gas; or
7	"(E) biomethane.
8	"(4) NATURAL GAS-GENERATED POWER.—The
9	term 'natural gas-generated power' means—
10	"(A) electric energy generated through the
11	use of natural gas; and
12	"(B) the generation of hydrogen from nat-
13	ural gas.
14	"(5) Program.—The term 'program' means
15	the program established under subsection (b)(1).
16	"(6) QUALIFYING ELECTRIC GENERATION FA-
17	CILITY.—
18	"(A) IN GENERAL.—The term 'qualifying
19	electric generation facility' means a facility that
20	generates electric energy using natural gas as
21	the fuel.
22	"(B) Inclusions.—The term 'qualifying
23	electric generation facility' includes a new or ex-
24	isting—
25	"(i) simple cycle plant;

4

1	"(ii) combined cycle plant;
2	"(iii) combined heat and power plant;
3	"(iv) steam methane reformer that
4	produces hydrogen from natural gas for
5	use in the production of electric energy; or
6	"(v) facility that uses natural gas as
7	the fuel for generating electric energy.
8	"(7) QUALIFYING TECHNOLOGY.—The term
9	'qualifying technology' means any commercially via-
10	ble technology, as determined by the Secretary, for
11	the capture of carbon dioxide produced during the
12	generation of natural gas-generated power.
13	"(b) Establishment of Research, Develop-
14	MENT, AND DEMONSTRATION PROGRAM.—
15	"(1) IN GENERAL.—The Secretary shall estab-
16	lish a program of research, development, and dem-
17	onstration of qualifying technologies for use by
18	qualifying electric generation facilities.
19	"(2) Objectives.—The objectives of the pro-
20	gram shall be—
21	"(A) to identify opportunities to accelerate
22	the development and commercial applications of
23	qualifying technologies to reduce the quantity of
24	carbon dioxide emissions released from quali-
25	fying electric generation facilities;

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1	"(B) to enter into cooperative agreements
2	with eligible entities to expedite and carry out
3	demonstration projects (including pilot projects)
4	for qualifying technologies for use by qualifying
5	electric generation facilities to demonstrate the
6	technical and commercial viability of those
7	qualifying technologies for commercial deploy-
8	ment; and
9	"(C) to identify any barriers to the com-
10	mercial deployment of any qualifying tech-
11	nologies under development.
12	"(3) Participation of National Labora-
13	TORIES, UNIVERSITIES, AND RESEARCH FACILI-
14	TIES.—The program may include the participation
15	of—
16	"(A) National Laboratories;
17	"(B) institutions of higher education;
18	"(C) research facilities; or
19	"(D) other appropriate entities.
20	"(4) Cooperative agreements.—
21	"(A) IN GENERAL.—In carrying out the
22	program, the Secretary may enter into coopera-
23	tive agreements with eligible entities to carry
24	out research, development, and demonstration
25	projects for qualifying technologies.

1	"(B) APPLICATIONS; PROPOSALS.—An eli-
2	gible entity desiring to enter into a cooperative
3	agreement under this paragraph shall submit to
4	the Secretary an application at such time, in
5	such manner, and containing such information
6	as the Secretary may require.
7	"(c) Carbon Capture Facilities Demonstration
8	Program.—
9	"(1) ESTABLISHMENT.—As part of the pro-
0	gram, the Secretary shall establish a demonstration
11	program under which the Secretary shall enter into
12	cooperative agreements with eligible entities for dem-
13	onstration or pilot projects to license, permit, con-
14	struct, and operate, by not later than September 30,
15	2025, 3 or more facilities to capture carbon dioxide
16	from qualifying electric generation facilities.
17	"(2) GOALS.—Each demonstration or pilot
18	project under the demonstration program shall—
19	"(A) be designed to further the develop-
20	ment of qualifying technologies that may be
21	used by a qualifying electric generation facility
22	"(B) be financed in part by the private
23	sector;
24	"(C) if necessary, secure agreements for
25	the offtake of the majority of the carbon dioxide

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1	emissions captured by qualifying technologies
2	during the project; and
3	"(D) support energy production in the
4	United States.
5	"(3) Request for applications.—Not later
6	than 120 days after the date of enactment of this
7	Act, the Secretary shall solicit applications for coop-
8	erative agreements for projects—
9	"(A) to demonstrate qualifying tech-
10	nologies at 3 or more qualifying electric genera-
11	tion facilities;
12	"(B) to obtain any license or permit from
13	a State or Federal agency that is necessary for
14	the construction of 3 or more facilities to cap-
15	ture carbon dioxide from a qualifying electric
16	generation facility; and
17	"(C) to construct and operate 3 or more
18	facilities to capture carbon dioxide from a quali-
19	fying electric generation facility.
20	"(4) REVIEW OF APPLICATIONS.—In reviewing
21	applications submitted under paragraph (3), the
22	Secretary, to the maximum extent practicable,
23	shall—
24	"(A) ensure a broad geographic distribu-
25	tion of project sites;

1	"(B) ensure that a broad selection of
2	qualifying electric generation facilities are rep-
3	resented;
4	"(C) ensure that a broad selection of quali-
5	fying technologies are represented; and
6	"(D) leverage existing—
7	"(i) public-private partnerships; and
8	"(ii) Federal resources.
9	"(d) Cost Sharing.—In carrying out this section,
10	the Secretary shall require cost sharing in accordance with
11	section 988.
12	"(e) FEE TITLE.—The Secretary may vest fee title
13	or other property interests acquired under cooperative
14	agreements entered into under subsection (b)(4) in any
15	entity, including the United States.
16	"(f) Report.—Not later than 180 days after the
17	date on which the Secretary solicits applications under
18	subsection (c)(3), and annually thereafter, the Secretary
19	shall submit to the appropriate committees of jurisdiction
20	of the Senate and the House of Representatives a report
21	that—
22	"(1) with respect to subsections (b) and (c), in-
23	cludes recommendations for any legislative changes
24	needed to improve the implementation of those sub-
25	sections;

1	"(2) with respect to subsection (b), includes—
2	"(A) a detailed description of how applica-
3	tions for cooperative agreements under para-
4	graph (4) of that subsection will be solicited
5	and evaluated, including—
6	"(i) a list of any activities carried out
7	by the Secretary to solicit or evaluate ap-
8	plications; and
9	"(ii) a process for ensuring that any
10	projects carried out under a cooperative
11	agreement are designed to result in the de-
12	velopment or demonstration of qualifying
13	technologies;
14	"(B) a detailed list of technical milestones
15	for each qualifying technology pursued under
16	that subsection;
17	"(C) a detailed description of how each
18	project carried out pursuant to a cooperative
19	agreement under paragraph (4) of that sub-
20	section will meet the milestones for carbon cap-
21	ture described in the September 2017 report of
22	the Office of Fossil Energy entitled 'Accel-
23	erating Breakthrough Innovation in Carbon
24	Capture, Utilization, and Storage'; and

1	"(D) an affirmation from the Secretary
2	that all recipients of funding under that sub-
3	section are eligible entities; and
4	"(3) with respect to the demonstration program
5	established under subsection (c), includes—
6	"(A) an estimate of the cost of licensing,
7	permitting, constructing, and operating each
8	carbon capture facility expected to be con-
9	structed under that demonstration program;
10	"(B) a schedule for—
11	"(i) obtaining any license or permit
12	necessary to construct and operate each
13	carbon capture facility expected to be con-
14	structed; and
15	"(ii) constructing each facility; and
16	"(C) an estimate of any financial assist-
17	ance, compensation, or incentives proposed to
18	be paid by the host State, Indian Tribe, or local
19	government with respect to each facility.
20	"(g) Funding.—For each of fiscal years 2020
21	through 2025, out of any amounts appropriated to the De-
22	partment to carry out fossil energy research and develop-
23	ment activities and not otherwise obligated, the Secretary
24	may use to carry out this section not more than
25	\$50,000,000.".

- 1 (b) Clerical Amendment.—The table of contents
- 2 for the Energy Policy Act of 2005 (Public Law 109-58;
- 3 119 Stat. 600) is amended by inserting after the item re-
- 4 lating to section 968 the following:

"Sec. 969. Natural gas carbon capture research, development, and demonstration program.".

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