

Calendar No. 362

116TH CONGRESS 1ST SESSION

S. 2799

To require the Secretary of Energy and the Secretary of the Interior to establish a joint Nexus of Energy and Water Sustainability Office, and for other purposes.

IN THE SENATE OF THE UNITED STATES

November 6, 2019

Ms. Murkowski introduced the following bill; which was read twice and referred to the Committee on Energy and Natural Resources

December 17, 2019

Reported by Ms. Murkowski, with an amendment [Omit the part struck through and insert the part printed in italic]

A BILL

To require the Secretary of Energy and the Secretary of the Interior to establish a joint Nexus of Energy and Water Sustainability Office, 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 "Nexus of Energy and
- 5 Water for Sustainability Act of 2019" or the "NEWS Act
- 6 of 2019".

1	SEC. 2. NEXUS OF ENERGY AND WATER FOR SUSTAIN-
2	ABILITY.
3	(a) Definitions.—In this section:
4	(1) Energy-water nexus.—The term "en-
5	ergy-water nexus" means the links between—
6	(A) the water needed to produce fuels,
7	electricity, and other forms of energy; and
8	(B) the energy needed to transport, re-
9	claim, and treat water and wastewater.
10	(2) Interagency coordination com-
11	MITTEE.—The term "Interagency Coordination
12	Committee" means the Committee on the Nexus of
13	Energy and Water for Sustainability (or the
14	"NEWS Committee") established under subsection
15	(b)(1).
16	(3) Nexus of energy and water sustain-
17	ABILITY OFFICE; NEWS OFFICE.—The term "Nexus
18	of Energy and Water Sustainability Office" or the
19	"NEWS Office" means an office located at the De-
20	partment of Energy and managed in cooperation
21	with the Department of the Interior pursuant to an
22	agreement between the 2 agencies to carry out lead-
23	ership and administrative functions for the Inter-
24	agency Coordination Committee.
25	(4) RD&D.—The term "RD&D" means re-
26	search, development, and demonstration.

1	(b) Interagency Coordination Committee.—
2	(1) Establishment.—Not later than 180 days
3	after the date of enactment of this Act, the Sec-
4	retary of Energy and the Secretary of the Interior
5	shall establish the joint NEWS Office and Inter-
6	agency Coordination Committee on the Nexus of En-
7	ergy and Water for Sustainability (or the "NEWS
8	Committee") to carry out the duties described in
9	paragraph (3).
10	(2) Administration.—
11	(A) Chairs.—The Secretary of Energy
12	and the Secretary of the Interior shall jointly
13	manage the NEWS Office and serve as co-
14	chairs of the Interagency Coordination Com-
15	mittee.
16	(B) Membership; staffing.—Member-
17	ship and staffing shall be determined by the co-
18	chairs.
19	(3) Duties.—The Interagency Coordination
20	Committee shall—
21	(A) serve as a forum for developing com-
22	mon Federal goals and plans on energy-water
23	nexus RD&D activities in coordination with the
24	National Science and Technology Council;

1	(B) not later than 1 year after the date of
2	enactment of this Act, and biennially thereafter,
3	issue a strategic plan on energy-water nexus
4	RD&D activities priorities and objectives;
5	(C) convene and promote coordination of
6	the activities of Federal departments and agen-
7	cies on energy-water nexus RD&D activities, in-
8	cluding the activities of—
9	(i) the Department of Energy;
10	(ii) the Department of the Interior;
11	(iii) the Corps of Engineers;
12	(iv) the Department of Agriculture;
13	(v) the Department of Defense;
14	(vi) the Department of State;
15	(vii) the Environmental Protection
16	Agency;
17	(viii) the Council on Environmental
18	Quality;
19	(ix) the National Institute of Stand-
20	ards and Technology;
21	(x) the National Oceanic and Atmos-
22	pheric Administration;
23	(xi) the National Science Foundation;
24	(xii) the Office of Management and
25	Budget;

1	(xiii) the Office of Science and Tech-
2	nology Policy;
3	(xiv) the National Aeronautics and
4	Space Administration; and
5	(xv) such other Federal departments
6	and agencies as the Interagency Coordina-
7	tion Committee considers appropriate;
8	(D)(i) coordinate and develop capabilities
9	and methodologies for data collection, manage-
10	ment, and dissemination of information related
11	to energy-water nexus RD&D activities from
12	and to other Federal departments and agencies;
13	and
14	(ii) promote information exchange be-
15	tween Federal departments and agencies—
16	(I) to identify and document
17	Federal and non-Federal programs
18	and funding opportunities that sup-
19	port basic and applied RD&D pro-
20	posals to advance energy-water nexus
21	related science and technologies;
22	(II) to leverage existing programs
23	by encouraging joint solicitations,
24	block grants, and matching programs
25	with non-Federal entities; and

1	(III) to identify opportunities for
2	domestic and international public-pri-
3	vate partnerships, innovative financ-
4	ing mechanisms, and information and
5	data exchange;
6	(E) promote the integration of energy-
7	water nexus considerations into existing Federal
8	water, energy, and other natural resource, in-
9	frastructure, and science programs at the na-
10	tional and regional levels and with programs
11	administered in partnership with non-Federal
12	entities; and
13	(F) not later than 1 year after the date of
14	enactment of this Act, issue a report on the po-
15	tential benefits and feasibility of establishing an
16	energy-water center of excellence within the Na-
17	tional Laboratories (as that term is defined in
18	section 2 of the Energy Policy Act of 2005 (42
19	U.S.C. 15801)).
20	(4) No regulation.—Nothing in this sub-
21	section grants to the Interagency Coordination Com-
22	mittee the authority to promulgate regulations or set
23	standards.
24	(5) REVIEW; REPORT.—At the end of the 5-
25	year period beginning on the date on which the

1	Interagency Coordination Committee and NEWS Of-
2	fice are established, the NEWS Office shall—
3	(A) review the activities, relevance, and ef-
4	fectiveness of the Interagency Coordination
5	Committee; and
6	(B) submit to the Committee on Energy
7	and Natural Resources of the Senate and the
8	Committees on Science, Space, and Technology,
9	Energy and Commerce, and Natural Resources
10	of the House of Representatives a report that—
11	(i) describes the results of the review
12	conducted under subparagraph (A); and
13	(ii) includes a recommendation on
14	whether the Interagency Coordination
15	Committee should continue.
16	(c) Crosscut Budget.—Not later than 30 days
17	after the President submits the budget of the United
18	States Government under section 1105 of title 31, United
19	States Code, the co-chairs of the Interagency Coordination
20	Committee (acting through the NEWS Office) shall sub-
21	mit to the Committee on Energy and Natural Resources
22	of the Senate and the Committees on Science, Space, and
23	Technology, Energy and Commerce, and Natural Re-
24	sources of the House of Representatives, an interagency
25	budget crosscut report that displays at the program-,

1	project-, and activity-level for each of the Federal agencies
2	that carry out or support (including through grants, con-
3	tracts, interagency and intraagency transfers, and
4	multiyear and no-year funds) basic and applied RD&D ac-
5	tivities to advance the energy-water nexus related science
6	and technologies—
7	(1) the budget proposed in the budget request
8	of the President for the upcoming fiscal year;
9	(2) expenditures and obligations for the prior
10	fiscal year; and
11	(3) estimated expenditures and obligations for
12	the current fiscal year.
10	CEC A CWART ENERGY AND WATER EFFICIENCY DILOT
13	SEC. 3. SMART ENERGY AND WATER EFFICIENCY PILOT
13 14	PROGRAM.
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14 15	PROGRAM. (a) IN GENERAL.—Subtitle A of title IX of the En-
14 15 16	PROGRAM. (a) IN GENERAL.—Subtitle A of title IX of the Energy Policy Act of 2005 (42 U.S.C. 16191 et seq.) is
14 15 16 17	PROGRAM. (a) IN GENERAL.—Subtitle A of title IX of the Energy Policy Act of 2005 (42 U.S.C. 16191 et seq.) is amended by adding at the end the following:
14 15 16 17 18	PROGRAM. (a) IN GENERAL.—Subtitle A of title IX of the Energy Policy Act of 2005 (42 U.S.C. 16191 et seq.) is amended by adding at the end the following: "SEC. 918. SMART ENERGY AND WATER EFFICIENCY PILOTOMATICAL PROGRAM. "SEC. 918. SMART ENERGY AND WATER EFFICIENCY PILOTOMATICAL PROGRAM.
14 15 16 17 18	PROGRAM. (a) IN GENERAL.—Subtitle A of title IX of the Energy Policy Act of 2005 (42 U.S.C. 16191 et seq.) is amended by adding at the end the following: "SEC. 918. SMART ENERGY AND WATER EFFICIENCY PILOTOPROGRAM.
14 15 16 17 18 19 20	PROGRAM. (a) In General.—Subtitle A of title IX of the Energy Policy Act of 2005 (42 U.S.C. 16191 et seq.) is amended by adding at the end the following: "SEC. 918. SMART ENERGY AND WATER EFFICIENCY PILOT PROGRAM. "(a) Definitions.—In this section:
14 15 16 17 18 19 20 21	PROGRAM. (a) In General.—Subtitle A of title IX of the Energy Policy Act of 2005 (42 U.S.C. 16191 et seq.) is amended by adding at the end the following: "SEC. 918. SMART ENERGY AND WATER EFFICIENCY PILOT PROGRAM. "(a) Definitions.—In this section: "(1) Eligible entity.—The term 'eligible en-
14 15 16 17 18 19 20 21	PROGRAM. (a) In General.—Subtitle A of title IX of the Energy Policy Act of 2005 (42 U.S.C. 16191 et seq.) is amended by adding at the end the following: "SEC. 918. SMART ENERGY AND WATER EFFICIENCY PILOT PROGRAM. "(a) Definitions.—In this section: "(1) Eligible entity' means—

1	"(D) an Indian tribe or Alaska Native vil-
2	lage; and
3	"(E) any other authority that provides
4	water, wastewater, or water reuse services.
5	"(2) Smart energy and water efficiency
6	PILOT PROGRAM.—The term 'smart energy and
7	water efficiency pilot program' or 'pilot program'
8	means the pilot program established under sub-
9	section (b).
10	"(b) SMART ENERGY AND WATER EFFICIENCY
11	PILOT PROGRAM.—
12	"(1) In general.—The Secretary shall estab-
13	lish and carry out a smart energy and water effi-
14	ciency pilot program in accordance with this section.
15	"(2) Purpose.—The purpose of the smart en-
16	ergy and water efficiency pilot program is to award
17	grants to eligible entities to demonstrate unique, ad-
18	vanced, or innovative technology-based solutions that
19	will—
20	"(A) improve the net energy balance of
21	water, wastewater, and water reuse systems;
22	"(B) improve the net energy balance of
23	water, wastewater, and water reuse systems to
24	help communities across the United States

1	make measurable progress in conserving water,
2	saving energy, and reducing costs;
3	"(C) support the implementation of inno-
4	vative and unique processes and the installation
5	of established advanced automated systems that
6	provide real-time data on energy and water; and
7	"(D) improve energy-water conservation
8	and quality and predictive maintenance through
9	technologies that utilize internet connected
10	technologies, including sensors, intelligent gate-
11	ways, and security embedded in hardware.
12	"(3) Project selection.—
13	"(A) IN GENERAL.—The Secretary shall
14	make competitive, merit-reviewed grants under
15	the pilot program to not less than 3, but not
16	more than 5, eligible entities.
17	"(B) Selection Criteria.—In selecting
18	an eligible entity to receive a grant under the
19	pilot program, the Secretary shall consider—
20	"(i) energy and cost savings;
21	"(ii) the uniqueness, commercial via-
22	bility, and reliability of the technology to
23	be used;

1	"(iii) the degree to which the project
2	integrates next-generation sensors soft-
3	ware, analytics, and management tools;
4	"(iv) the anticipated cost-effectiveness
5	of the pilot project through measurable en-
6	ergy savings, water savings or reuse, and
7	infrastructure costs averted;
8	"(v) whether the technology can be
9	deployed in a variety of geographic regions
10	and the degree to which the technology can
11	be implemented in a wide range of applica-
12	tions ranging in scale from small towns to
13	large cities, including tribal communities;
14	"(vi) whether the technology has been
15	successfully deployed elsewhere;
16	"(vii) whether the technology was
17	sourced from a manufacturer based in the
18	United States; and
19	"(viii) whether the project will be
20	completed in 5 years or less.
21	"(C) Applications.—
22	"(i) In general.—Subject to clause
23	(ii), an eligible entity seeking a grant
24	under the pilot program shall submit to
25	the Secretary an application at such time,

1	in such manner, and containing such infor-
2	mation as the Secretary determines to be
3	necessary.
4	"(ii) Contents.—An application
5	under clause (i) shall, at a minimum, in-
6	clude
7	"(I) a description of the project;
8	"(II) a description of the tech-
9	nology to be used in the project;
10	"(III) the anticipated results, in-
11	cluding energy and water savings, of
12	the project;
13	"(IV) a comprehensive budget for
14	the project;
15	"(V) the names of the project
16	lead organization and any partners;
17	"(VI) the number of users to be
18	served by the project;
19	"(VII) a description of the ways
20	in which the proposal would meet per-
21	formance measures established by the
22	Secretary; and
23	"(VIII) any other information
24	that the Secretary determines to be

1	necessary to complete the review and
2	selection of a grant recipient.
3	"(4) Administration.—
4	"(A) In general.—Not later than 1 year
5	after the date of enactment of this section, the
6	Secretary shall select grant recipients under
7	this section.
8	"(B) EVALUATIONS.—
9	"(i) Annual evaluations.—The
10	Secretary shall annually carry out an eval-
11	uation of each project for which a grant is
12	provided under this section that meets per-
13	formance measures and benchmarks devel-
14	oped by the Secretary, consistent with the
15	purposes of this section.
16	"(ii) Requirements.—Consistent
17	with the performance measures and bench-
18	marks developed under clause (i), in car-
19	rying out an evaluation under that clause,
20	the Secretary shall—
21	"(I) evaluate the progress and
22	impact of the project; and
23	"(II) assesses the degree to
24	which the project is meeting the goals
25	of the pilot program.

1	"(C) TECHNICAL AND POLICY ASSIST-
2	ANCE.—On the request of a grant recipient, the
3	Secretary shall provide technical and policy as-
4	sistance.
5	"(D) Best practices.—The Secretary
6	shall make available to the public through the
7	Internet and other means the Secretary con-
8	siders to be appropriate—
9	"(i) a copy of each evaluation carried
10	out under subparagraph (B); and
11	"(ii) a description of any best prac-
12	tices identified by the Secretary as a result
13	of those evaluations.
14	"(E) Report to congress.—The Sec-
15	retary shall submit to Congress a report con-
16	taining the results of each evaluation carried
17	out under subparagraph (B).
18	"(e) AUTHORIZATION OF APPROPRIATIONS.—There
19	is authorized to be appropriated to carry out this section
20	\$15,000,000, to remain available until expended.
21	"(c) Funding.—The Secretary shall use funds made
22	available to the Secretary and not otherwise obligated to
23	carry out this section.".
24	(b) Conforming Amendment.—The table of con-
25	tents of the Energy Policy Act of 2005 (Public Law 109–

- 1 58; 119 Stat. 594) is amended by inserting after the item
- 2 relating to section 917 the following:

"Sec. 918. Smart energy and water efficiency pilot program.".

Calendar No. 362

116TH CONGRESS S. 2799

A BILL

To require the Secretary of Energy and the Secretary of the Interior to establish a joint Nexus of Energy and Water Sustainability Office, and for other purposes.

DECEMBER 17, 2019

Reported with an amendment