

115TH CONGRESS
1ST SESSION

S. 1696

To amend the Energy Policy Act of 2005 to provide for a smart energy
and water efficiency management pilot program.

IN THE SENATE OF THE UNITED STATES

AUGUST 1, 2017

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

A BILL

To amend the Energy Policy Act of 2005 to provide for
a smart energy and water efficiency management pilot
program.

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 “Smart Energy and
5 Water Efficiency Act of 2017”.

6 **SEC. 2. SMART ENERGY AND WATER EFFICIENCY MANAGE-**
7 **MENT PILOT PROGRAM.**

8 Subtitle A of title IX of the Energy Policy Act of
9 2005 (42 U.S.C. 16191 et seq.) is amended by adding at
10 the end the following:

1 **“SEC. 918. SMART ENERGY AND WATER EFFICIENCY MAN-**
2 **AGEMENT PILOT PROGRAM.**

3 “(a) DEFINITIONS.—In this section:

4 “(1) ELIGIBLE ENTITY.—The term ‘eligible en-
5 tity’ means—

6 “(A) a utility;

7 “(B) a municipality;

8 “(C) a water district;

9 “(D) an Indian tribe or Alaska Native vil-
10 lage; and

11 “(E) any other authority that provides
12 water, wastewater, or water reuse services.

13 “(2) PILOT PROGRAM.—The term ‘pilot pro-
14 gram’ means the pilot program established under
15 subsection (b)(1).

16 “(b) SMART ENERGY AND WATER EFFICIENCY MAN-
17 AGEMENT PILOT PROGRAM.—

18 “(1) IN GENERAL.—The Secretary shall estab-
19 lish and carry out a smart energy and water effi-
20 ciency management pilot program in accordance
21 with this section.

22 “(2) PURPOSE.—The purpose of the pilot pro-
23 gram is to award grants to eligible entities to dem-
24 onstrate advanced and innovative technology-based
25 solutions that will—

1 “(A) increase the energy efficiency of
2 water, wastewater, and water reuse systems;

3 “(B) improve the energy efficiency of
4 water, wastewater, and water reuse systems to
5 help communities across the United States
6 make significant progress in conserving water,
7 saving energy, and reducing costs;

8 “(C) support the implementation of inno-
9 vative processes and the installation of ad-
10 vanced automated systems that provide real-
11 time data on energy and water; and

12 “(D) improve energy and water conserva-
13 tion, water quality, and predictive maintenance
14 of energy and water systems, through the use
15 of Internet-connected technologies, including
16 sensors, intelligent gateways, and security em-
17 bedded in hardware.

18 “(3) PROJECT SELECTION.—

19 “(A) IN GENERAL.—The Secretary shall
20 make competitive, merit-reviewed grants under
21 the pilot program to not less than 3, but not
22 more than 5, eligible entities.

23 “(B) SELECTION CRITERIA.—In selecting
24 an eligible entity to receive a grant under the
25 pilot program, the Secretary shall consider—

1 “(i) energy and cost savings antici-
2 pated to result from the project;

3 “(ii) the innovative nature, commer-
4 cial viability, and reliability of the tech-
5 nology to be used;

6 “(iii) the degree to which the project
7 integrates next-generation sensors, soft-
8 ware, hardware, analytics, and manage-
9 ment tools;

10 “(iv) the anticipated cost effectiveness
11 of the project in terms of energy efficiency
12 savings, water savings or reuse, and infra-
13 structure costs averted;

14 “(v) whether the technology can be
15 deployed in a variety of geographic regions
16 and the degree to which the technology can
17 be implemented on a smaller or larger
18 scale, including whether the technology can
19 be implemented by each type of eligible en-
20 tity;

21 “(vi) whether the technology has been
22 successfully deployed elsewhere;

23 “(vii) whether the technology is
24 sourced from a manufacturer based in the
25 United States; and

1 “(viii) whether the project will be
2 completed in 5 years or less.

3 “(C) APPLICATIONS.—

4 “(i) IN GENERAL.—Subject to clause
5 (ii), an eligible entity seeking a grant
6 under the pilot program shall submit to
7 the Secretary an application at such time,
8 in such manner, and containing such infor-
9 mation as the Secretary determines to be
10 necessary.

11 “(ii) CONTENTS.—An application
12 under clause (i), at a minimum, shall in-
13 clude—

14 “(I) a description of the project;

15 “(II) a description of the tech-
16 nology to be used in the project;

17 “(III) the anticipated results, in-
18 cluding energy and water savings, of
19 the project;

20 “(IV) a comprehensive budget for
21 the project;

22 “(V) the names of the project
23 lead organization and any partners;

24 “(VI) the number of users to be
25 served by the project;

1 “(VII) a description of the ways
2 in which the proposal would meet per-
3 formance measures established by the
4 Secretary; and

5 “(VIII) any other information
6 that the Secretary determines to be
7 necessary to complete the review and
8 selection of a grant recipient.

9 “(4) ADMINISTRATION.—

10 “(A) IN GENERAL.—Not later than 300
11 days after the date of enactment of the Smart
12 Energy and Water Efficiency Act of 2017, the
13 Secretary shall select grant recipients under
14 this section.

15 “(B) EVALUATIONS.—

16 “(i) ANNUAL EVALUATIONS.—The
17 Secretary shall annually carry out an eval-
18 uation of each project for which a grant is
19 provided under this section that meets per-
20 formance measures and benchmarks devel-
21 oped by the Secretary, consistent with the
22 purposes of this section.

23 “(ii) REQUIREMENTS.—Consistent
24 with the performance measures and bench-
25 marks developed under clause (i), in car-

1 rying out an evaluation under that clause,
2 the Secretary shall—

3 “(I) evaluate the progress and
4 impact of the project; and

5 “(II) assess the degree to which
6 the project is meeting the goals of the
7 pilot program.

8 “(C) TECHNICAL AND POLICY ASSIST-
9 ANCE.—On request of a grant recipient, the
10 Secretary shall provide technical and policy as-
11 sistance to the grant recipient to carry out the
12 project.

13 “(D) BEST PRACTICES.—The Secretary
14 shall make available to the public—

15 “(i) a copy of each evaluation carried
16 out under subparagraph (B); and

17 “(ii) a description of any best prac-
18 tices identified by the Secretary as a result
19 of those evaluations.

20 “(E) REPORT TO CONGRESS.—The Sec-
21 retary shall submit to Congress a report de-
22 scribing the results of each evaluation carried
23 out under subparagraph (B).

1 “(c) AUTHORIZATION OF APPROPRIATIONS.—There
2 is authorized to be appropriated to carry out this section,
3 \$15,000,000, to remain available until expended.”.

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