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(Original Signature of Member)

116TH CONGRESS
1ST SESSION

H. R. 2019

To provide for a smart water resource management pilot program.

IN THE HOUSE OF REPRESENTATIVES

Mr. MCNERNEY introduced the following bill; which was referred to the
Committee on _____

A BILL

To provide for a smart water resource 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 2019”.

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

8 (a) DEFINITIONS.—In this section:

1 (1) ELIGIBLE ENTITY.—The term “eligible enti-
2 ty” means—

3 (A) a utility;

4 (B) a municipality;

5 (C) a water district; and

6 (D) any other authority that provides
7 water, wastewater, or water reuse services.

8 (2) SECRETARY.—The term “Secretary” means
9 the Secretary of Energy.

10 (3) SMART ENERGY AND WATER EFFICIENCY
11 PILOT PROGRAM.—The term “smart energy and
12 water efficiency pilot program” or “pilot program”
13 means the pilot program established under sub-
14 section (b).

15 (b) SMART ENERGY AND WATER EFFICIENCY PILOT
16 PROGRAM.—

17 (1) IN GENERAL.—The Secretary shall establish
18 and carry out a smart energy and water efficiency
19 management pilot program in accordance with this
20 section.

21 (2) PURPOSE.—The purpose of the smart en-
22 ergy and water efficiency pilot program is to award
23 grants to eligible entities to demonstrate advanced
24 and innovative technology-based solutions that will—

1 (A) increase and improve the energy effi-
2 ciency of water, wastewater, and water reuse
3 systems to help communities across the United
4 States make significant progress in conserving
5 water, saving energy, and reducing costs;

6 (B) support the implementation of innova-
7 tive processes and the installation of advanced
8 automated systems that provide real-time data
9 on energy and water; and

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

16 (3) PROJECT SELECTION.—

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

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

24 (i) energy and cost savings anticipated
25 to result from the project;

1 (ii) the innovative nature, commercial
2 viability, and reliability of the technology
3 to be used;

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

8 (iv) the anticipated cost-effectiveness
9 of the pilot project in terms of energy effi-
10 ciency savings, water savings or reuse, and
11 infrastructure costs averted;

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

19 (vi) whether the technology has been
20 successfully deployed elsewhere;

21 (vii) whether the technology is sourced
22 from a manufacturer based in the United
23 States; and

24 (viii) whether the project will be com-
25 pleted in 5 years or less.

1 (C) APPLICATIONS.—

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

9 (ii) CONTENTS.—An application under
10 clause (i) shall, at a minimum, include—

11 (I) a description of the project;

12 (II) a description of the tech-
13 nology to be used in the project;

14 (III) the anticipated results, in-
15 cluding energy and water savings, of
16 the project;

17 (IV) a comprehensive budget for
18 the project; and

19 (V) the number of households or
20 customers to be served by the project.

21 (4) ADMINISTRATION.—

22 (A) IN GENERAL.—Not later than 300
23 days after the date of enactment of this Act,
24 the Secretary shall select grant recipients under
25 this section.

1 (B) EVALUATIONS.—The Secretary shall
2 annually for 5 years carry out an evaluation of
3 each project for which a grant is provided
4 under this section that—

5 (i) evaluates the progress and impact
6 of the project; and

7 (ii) assesses the degree to which the
8 project is meeting the goals of the pilot
9 program.

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

15 (D) BEST PRACTICES.—The Secretary
16 shall make available to the public—

17 (i) a copy of each evaluation carried
18 out under subparagraph (B); and

19 (ii) a description of any best practices
20 identified by the Secretary as a result of
21 those evaluations.

22 (E) REPORT TO CONGRESS.—Not later
23 than 5 years after the establishment of the pro-
24 gram, the Secretary shall submit to Congress a

1 report containing the results of each evaluation
2 carried out under subparagraph (B).

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