

sources, wells, storage, valves, treatment systems, distribution lines, hydrants, pumps, controls, and other essential infrastructure;

(2) the development of an infrastructure asset map, including a map that uses technology such as—

(A) geographic information system software; and

(B) global positioning system software;

(3) the deployment of leak detection technology;

(4) the deployment of metering technology;

(5) training in asset management strategies, techniques, and technologies for appropriate staff employed by—

(A) the eligible entity; or

(B) the small systems for which the grant was received;

(6) the deployment of strategies, techniques, and technologies to enhance the operational sustainability and effective use of water resources through water reuse; and

(7) the development or deployment of other strategies, techniques, or technologies that the Administrator may determine to be appropriate under the program.

(f) Cost share

(1) In general

Subject to paragraph (2), the Federal share of the cost of a project carried out using a grant under the program shall be 90 percent of the total cost of the project.

(2) Waiver

The Administrator may increase the Federal share under paragraph (1) to 100 percent.

(g) Report

Not later than 2 years after November 15, 2021, the Administrator shall submit to Congress a report that describes the implementation of the program, which shall include a description of the use and deployment of amounts made available under the program.

(h) Authorization of appropriations

There is authorized to be appropriated to carry out this section \$50,000,000 for each of fiscal years 2022 through 2026.

(July 1, 1944, ch. 373, title XIV, §1459E, as added Pub. L. 117-58, div. E, title I, §50106, Nov. 15, 2021, 135 Stat. 1142.)

§ 300j-19g. Midsize and Large Drinking Water System Infrastructure Resilience and Sustainability Program

(a) Definitions

In this section:

(1) Eligible entity

The term “eligible entity” means a public water system that serves a community with a population of 10,000 or more.

(2) Natural hazard; resilience

The terms “resilience” and “natural hazard” have the meanings given those terms in section 300i-2(h) of this title.

(3) Resilience and sustainability program

The term “resilience and sustainability program” means the Midsize and Large Drinking

Water System Infrastructure Resilience and Sustainability Program established under subsection (b).

(b) Establishment

The Administrator shall establish and carry out a program, to be known as the “Midsize and Large Drinking Water System Infrastructure Resilience and Sustainability Program”, under which the Administrator, subject to the availability of appropriations for the resilience and sustainability program, shall award grants to eligible entities for the purpose of—

(1) increasing resilience to natural hazards and extreme weather events; and

(2) reducing cybersecurity vulnerabilities.

(c) Use of funds

An eligible entity may only use grant funds received under the resilience and sustainability program to assist in the planning, design, construction, implementation, operation, or maintenance of a program or project that increases resilience to natural hazards and extreme weather events, or reduces cybersecurity vulnerabilities, through—

(1) the conservation of water or the enhancement of water-use efficiency;

(2) the modification or relocation of existing drinking water system infrastructure made, or that is at risk of being, significantly impaired by natural hazards or extreme weather events, including risks to drinking water from flooding;

(3) the design or construction of new or modified desalination facilities to serve existing communities;

(4) the enhancement of water supply through the use of watershed management and source water protection;

(5) the enhancement of energy efficiency or the use and generation of renewable energy in the conveyance or treatment of drinking water;

(6) the development and implementation of measures—

(A) to increase the resilience of the eligible entity to natural hazards and extreme weather events; or

(B) to reduce cybersecurity vulnerabilities;

(7) the conservation of water or the enhancement of a water supply through the implementation of water reuse measures; or

(8) the formation of regional water partnerships to collaboratively address documented water shortages.

(d) Application

To seek a grant under the resilience and sustainability program, an eligible entity shall submit to the Administrator an application at such time, in such manner, and containing such information as the Administrator may require, including—

(1) a proposal of the program or project to be planned, designed, constructed, implemented, operated, or maintained by the eligible entity;

(2) an identification of the natural hazard risks, extreme weather events, or potential cybersecurity vulnerabilities, as applicable, to be addressed by the proposed program or project;

(3) documentation prepared by a Federal, State, regional, or local government agency of the natural hazard risk, potential cybersecurity vulnerability, or risk for extreme weather events to the area where the proposed program or project is to be located;

(4) a description of any recent natural hazards, cybersecurity events, or extreme weather events that have affected the community water system of the eligible entity;

(5) a description of how the proposed program or project would improve the performance of the community water system of the eligible entity under the anticipated natural hazards, cybersecurity vulnerabilities, or extreme weather events; and

(6) an explanation of how the proposed program or project is expected—

(A) to enhance the resilience of the community water system of the eligible entity to the anticipated natural hazards or extreme weather events; or

(B) to reduce cybersecurity vulnerabilities.

(e) Report

Not later than 2 years after November 15, 2021, the Administrator shall submit to Congress a report that describes the implementation of the resilience and sustainability program, which shall include a description of the use and deployment of amounts made available to carry out the resilience and sustainability program.

(f) Authorization of appropriations

(1) In general

There is authorized to be appropriated to carry out the resilience and sustainability program \$50,000,000 for each of fiscal years 2022 through 2026.

(2) Use of funds

Of the amounts made available under paragraph (1) for grants to eligible entities under the resilience and sustainability program—

(A) 50 percent shall be used to provide grants to eligible entities that serve a population of—

- (i) equal to or greater than 10,000; and
- (ii) fewer than 100,000; and

(B) 50 percent shall be used to provide grants to eligible entities that serve a population equal to or greater than 100,000.

(3) Administrative costs

Of the amounts made available under paragraph (1), not more than 2 percent may be used by the Administrator for the administrative costs of carrying out the resilience and sustainability program.

(July 1, 1944, ch. 373, title XIV, §1459F, as added Pub. L. 117-58, div. E, title I, §50107, Nov. 15, 2021, 135 Stat. 1144.)

§ 300j-19h. Advanced drinking water technologies

(a) Study

(1) In general

Subject to the availability of appropriations, not later than 1 year after November 15, 2021, the Administrator shall carry out a study that

examines the state of existing and potential future technology, including technology that could address cybersecurity vulnerabilities, that enhances or could enhance the treatment, monitoring, affordability, efficiency, and safety of drinking water provided by a public water system.

(2) Report

The Administrator shall submit to the Committee on Environment and Public Works of the Senate and the Committee on Energy and Commerce of the House of Representatives a report that describes the results of the study under paragraph (1).

(b) Advanced drinking water technology grant program

(1) Definitions

In this subsection:

(A) Eligible entity

The term “eligible entity” means the owner or operator of a public water system that—

(i) serves—

(I) a population of not more than 100,000 people; or

(II) a community described in section 300j-19a(c)(2) of this title;

(ii) has plans to identify or has identified opportunities in the operations of the public water system to employ new, existing, or emerging, yet proven, technologies, including technology that could address cybersecurity vulnerabilities, as determined by the Administrator, that enhance treatment, monitoring, affordability, efficiency, or safety of the drinking water provided by the public water system, including technologies not identified in the study conducted under subsection (a)(1); and

(iii) has expressed an interest in the opportunities in the operation of the public water system to employ new, existing, or emerging, yet proven, technologies, including technology that could address cybersecurity vulnerabilities, as determined by the Administrator, that enhance treatment, monitoring, affordability, efficiency, or safety of the drinking water provided by the public water system, including technologies not identified in the study conducted under subsection (a)(1).

(B) Program

The term “program” means the competitive grant program established under paragraph (2).

(2) Establishment

The Administrator shall establish a competitive grant program under which the Administrator shall award grants to eligible entities for the purpose of identifying, deploying, or identifying and deploying technologies described in paragraph (1)(A)(ii).

(3) Requirements

(A) Applications

To be eligible to receive a grant under the program, an eligible entity shall submit to