

119TH CONGRESS
1ST SESSION

H. R. 6075

To amend the Federal Water Pollution Control Act to reauthorize the pilot program for alternative water source projects, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

NOVEMBER 18, 2025

Mr. BRESNAHAN (for himself and Ms. McDONALD RIVET) introduced the following bill; which was referred to the Committee on Transportation and Infrastructure

A BILL

To amend the Federal Water Pollution Control Act to reauthorize the pilot program for alternative water source projects, 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 “Water Infrastructure
5 Modernization Act of 2025”.

6 **SEC. 2. INTELLIGENT WATER INFRASTRUCTURE TECH-**
7 **NOLOGY.**

8 Section 220 of the Federal Water Pollution Control
9 Act (33 U.S.C. 1300) is amended—

1 (1) in subsection (b), by adding at the end the
2 following:

3 “(3) INTELLIGENT WATER INFRASTRUCTURE
4 TECHNOLOGY.—The term ‘intelligent water infra-
5 structure technology’ means—

6 “(A) intelligent wastewater treatment and
7 collection systems and stormwater management
8 operations, including technologies that rely
9 on—

10 “(i) the use of real-time monitoring,
11 management, analytics, and data collection
12 tools, embedded intelligence, and predictive
13 maintenance capabilities that improve the
14 energy efficiency, cost efficiency, reliability,
15 and resiliency of wastewater treatment and
16 collection systems;

17 “(ii) real-time remote sensors that
18 provide continuous monitoring of water
19 quality to support optimization; and

20 “(iii) the use of artificial intelligence
21 and other intelligent optimization tools
22 that—

23 “(I) reduce operational costs, in-
24 cluding operational costs relating to

1 energy consumption and chemical
2 treatment; and

3 “(II) improve decisionmaking;

4 “(B) innovative and alternative combined
5 sewer and stormwater control projects, includ-
6 ing groundwater banking, that rely on real-time
7 data acquisition to support predictive aquifer
8 recharge through water reuse and stormwater
9 management capabilities;

10 “(C) advanced digital design and construc-
11 tion management tools, including advanced dig-
12 ital technologies;

13 “(D) technology that can identify or re-
14 duce water losses in a nondestructive or non-
15 disruptive manner, including through analytical
16 software, flow and pressure monitoring, or
17 acoustic data collection;

18 “(E) predictive and diagnostic tools for in-
19 formed decisionmaking;

20 “(F) technology that can provide com-
21 prehensive data on pipe integrity to identify the
22 presence of leaks or gas pockets;

23 “(G) technology that can provide informa-
24 tion on the extent of leaks or gas pockets, with
25 an emphasis on detecting weakness of, vulner-

1 ability of, or damage to pipe barrels, pipe
2 joints, or other pipe features;

3 “(H) real-time remote sensing tech-
4 nologies, including the use of advanced data
5 management and analytics, that detect and
6 alert owners and operators to wastewater and
7 water supply treatment facilities operations, in-
8 cluding leakages, and pipe bursts on a real-time
9 basis, including persistent sensor networks ca-
10 pable of measuring—

11 “(i) acoustic signals;

12 “(ii) pressure transient;

13 “(iii) water quality; or

14 “(iv) water flow;

15 “(I) advanced metering infrastructure, in-
16 cluding meter data analytics and ratepayer
17 technology—

18 “(i) to improve end-user conservation;

19 and

20 “(ii) in support of disadvantaged com-
21 munities;

22 “(J) resilient water supply projects that
23 may provide real-time monitoring of weather
24 patterns and weather-related impacts on water

1 quality and flood protection reservoirs and
2 dams that enhance operations, including—

3 “(i) improved water supply reliability
4 and management;

5 “(ii) protection of natural resources,
6 including fisheries; and

7 “(iii) temperature control;

8 “(K) innovative and alternative water sup-
9 ply projects, including groundwater banking,
10 that rely on real-time data acquisition to sup-
11 port predictive aquifer recharge through water
12 reuse and stormwater management capabilities;

13 “(L) artificial intelligence and other intel-
14 ligent optimization tools that—

15 “(i) reduce operational costs, includ-
16 ing costs relating to energy consumption
17 and chemical treatment of wastewater and
18 stormwater; and

19 “(ii) improve decisionmaking; and

20 “(M) advanced digital design and construc-
21 tion management technologies and tools relating
22 to water treatment systems and distribution
23 networks the development of advanced digital
24 models.”;

1 (2) by striking subsection (f) and inserting the
2 following:

3 “(f) USES OF GRANTS.—

4 “(1) IN GENERAL.—Amounts from grants re-
5 ceived under this section may be used for engineer-
6 ing, design, construction, and final testing of alter-
7 native water source projects designed to meet critical
8 water supply needs.

9 “(2) PROHIBITION.—Amounts from grants re-
10 ceived under this section may not be used for plan-
11 ning, feasibility studies, operation, or maintenance.

12 “(3) INTELLIGENT WATER INFRASTRUCTURE
13 TECHNOLOGIES.—

14 “(A) IN GENERAL.—Amounts from grants
15 received under this section may be used for en-
16 gineering, design, construction, implementation,
17 training, and operations relating to the adop-
18 tion and use of intelligent water infrastructure
19 technology.

20 “(B) APPLICABILITY.—For purposes of
21 paragraph (2), any costs with respect to intel-
22 ligent water infrastructure technology shall not
23 be considered operation or maintenance costs.”;

24 (3) by striking subsection (h) and inserting the
25 following:

1 “(h) REPORTS.—

2 “(1) IN GENERAL.—Not later than 180 days
3 after the date of enactment of the Water Infrastruc-
4 ture Modernization Act of 2025, and not less fre-
5 quently than annually thereafter, the Administrator
6 shall submit to Congress a report that—

7 “(A) describes—

8 “(i) the projects awarded grants for
9 the purposes described in subsection (f)(3);
10 and

11 “(ii) the improvements in the resil-
12 iency that resulted from grants awarded
13 under this section; and

14 “(B) includes any recommendations of the
15 Administrator to improve the ability of grants
16 under this section to achieve the uses described
17 in subsection (f).

18 “(2) INITIAL REPORT.—In the initial report re-
19 quired under paragraph (1), the Administrator shall
20 include a description of the implementation of this
21 section, including a description of—

22 “(A) the projects for which a grant was
23 sought under this section for the purposes de-
24 scribed in subsection (f)(3) that were denied;
25 and

1 “(B) for each of the projects described in
2 subparagraph (A), the reasons for which the
3 grant was denied.”; and
4 (4) in subsection (i)(1)—
5 (A) by striking “\$25,000,000” and insert-
6 ing “\$50,000,000”; and
7 (B) by striking “2026” and inserting
8 “2028”.

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