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# Water Infrastructure Financing: The Water Infrastructure Finance and Innovation Act (WIFIA) Program

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## Summary

The Water Infrastructure Finance and Innovation Act (WIFIA) program provides financial assistance for water infrastructure projects, including projects to build and upgrade wastewater and drinking water treatment systems. Congress established the WIFIA program in the Water Resources Reform and Development Act of 2014 (WRRDA 2014, P.L. 113-121).

The WIFIA concept is modeled after a similar program that finances transportation projects, the Transportation Infrastructure Finance and Innovation Act (TIFIA) program. Proponents of the WIFIA approach, including water utility organizations, cite several potential benefits

- WIFIA provides credit assistance to large water infrastructure projects that may otherwise have difficulty obtaining financing.
- WIFIA provides credit assistance, namely direct loans, at U.S. Treasury rates, potentially lowering the cost of capital for borrowers.
- WIFIA assistance has less of a federal budgetary effect than conventional project grants that are not repaid, because only the subsidy cost of a loan (representing the presumed default rate on loans) is required to be appropriated.
- WIFIA support limits the federal government's exposure to default, because projects must be found creditworthy with a revenue stream for repayment to be eligible for assistance.

On the other hand, opponents of the WIFIA approach, including organizations that represent state environmental agency officials, have cited several concerns

- Federal funding for a WIFIA program could have a detrimental effect on federal support for established State Revolving Fund (SRF) programs that provide the largest source of water infrastructure assistance today.
- If WIFIA funding resulted in a decrease in SRF assistance, smaller projects may face financing challenges.
- The Congressional Budget Office has warned that the future costs of a WIFIA program to the federal budget may be underestimated.

For FY2017, Congress appropriated \$30 million to the U.S. Environmental Protection Agency (EPA) for the WIFIA program through two appropriations acts: P.L. 114-254 provided \$20 million to EPA to begin the financing selection process (including \$3 million for administrative purposes); P.L. 115-31 provided an additional \$8 million to EPA to apply toward loan subsidy costs plus \$2 million for administrative expenses. The combined FY2017 appropriation for subsidy costs (\$25 million) allowed the agency to invite 12 entities across the country to apply for loans totaling \$2.3 billion that support a variety of water infrastructure projects.

For FY2018, the Consolidated Appropriations Act, 2018 (P.L. 115-141), provided \$63 million for the WIFIA program (including \$8 million for administrative costs). EPA announced a second round of WIFIA funding on April 4, 2018. EPA estimated that its budget authority (\$55 million) would provide approximately \$5.5 billion in credit assistance.

The 115<sup>th</sup> Congress is considering S. 3021, America's Water Infrastructure Act of 2018. S. 3021 combines elements of other omnibus water authorization bills considered by the 115<sup>th</sup> Congress. S. 3021, which passed the House on September 13, 2018, would make WIFIA permanent rather than a pilot program and authorize appropriations at a level of \$50 million for each of FY2020 and FY2021. It would establish special rules for WIFIA assistance to state SRF finance authorities, including allowing states to finance up to 100% of project costs using WIFIA

assistance. S. 3021 would also authorize another \$5 million in appropriations for WIFIA assistance to state finance authorities in years where EPA receives at least \$50 million in WIFIA appropriations. However, this extra \$5 million would be available only if appropriations for the clean water and drinking water state revolving fund programs match at least the FY2018 levels or 105% or more of the previous year's funding, whichever is greater.

As of the date of this report, Congress has not appropriated funds (nor have any been requested) that would enable the U.S. Army Corps of Engineers to prepare for making WIFIA loans under the authority in WRRDA 2014.

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## Introduction

Water infrastructure issues, regarding funding in particular, continue to receive attention from some Members of Congress and a wide array of stakeholders. Localities are primarily responsible for providing wastewater and drinking water infrastructure services. According to the most recent estimates by states and the U.S. Environmental Protection Agency (EPA), expected capital costs for such facilities total \$744 billion over a 20-year period.<sup>1</sup> While some analysts and stakeholders debate whether these estimates understate or overstate capital needs, most agree that the affected communities face formidable challenges in providing adequate and reliable water infrastructure services.

Capital investments in water infrastructure are necessary to maintain high quality service that protects public health and the environment, and capital facilities are a major investment for local governments. The vast majority of public capital projects are debt-financed (i.e., they are not financed on a pay-as-you-go basis from ongoing revenues to the water utility). The principal financing tool that local governments use is the issuance of tax-exempt municipal bonds. At least 70% of U.S. water utilities rely on municipal bonds and other debt to some degree to finance capital investments.<sup>2</sup> Beyond municipal bonds, federal assistance through grants and loans is available for some projects but is insufficient to meet all needs. Finally, public-private partnerships (P3s), which are long-term contractual arrangements between a public utility and a private company, currently provide only limited capital financing in the water sector. Although they are increasingly used in transportation and some other infrastructure sectors, especially P3s that involve private sector debt or equity investment in a project, most P3s for water infrastructure involve contract operations for operation and maintenance. Numerous drinking water utilities are privately owned and make significant private capital investments in water infrastructure,<sup>3</sup> unlike the wastewater sector, in which facilities are generally owned by municipalities.

In recent years, Congress has considered several legislative options to help finance water infrastructure projects, including projects to build and upgrade wastewater and drinking water treatment facilities. Some Members have offered proposals that would amend, supplement, and/or complement the existing clean water and drinking water State Revolving Fund (SRF) programs.<sup>4</sup> Other proposals would address water infrastructure issues outside the framework of the SRF programs.

<sup>1</sup> EPA's most recent estimate of capital needs for wastewater infrastructure was published in 2016. See EPA, *Clean Watersheds Needs Survey 2012, Report to Congress*, EPA-830-R-15005, January 2016. The most recent EPA needs estimate for drinking water infrastructure was issued in 2018. See EPA, *Drinking Water Infrastructure Needs Survey and Assessment*, EPA-816-K-17-002, March 2018. Operation and maintenance (O&M) needs are not included in these cost estimates, because the clean water and drinking water SRF programs cannot provide funding for O&M activities.

<sup>2</sup> Testimony of Aurel Arndt, American Water Works Association, in U.S. Congress, Senate Committee on Environment and Public Works, "The Federal Role in Keeping Water and Wastewater Infrastructure Affordable," 114<sup>th</sup> Cong., 2<sup>nd</sup> sess., April 7, 2016.

<sup>3</sup> The National Association of Water Companies, representing private water companies, estimates that "its six largest members alone are collectively investing nearly \$2.7 billion each year in their water systems—and these six companies provide service to about six percent of the U.S. population." Testimony of Martin A. Kropelnicki, National Association of Water Companies, before House Committee on Energy and Commerce, Subcommittee on Environment, *Reinvestment and Rehabilitation of Our Nation's Safe Drinking Water Delivery Systems*, 115<sup>th</sup> Cong., 1<sup>st</sup> sess., March 16, 2017, p. 2.

<sup>4</sup> For more information on the SRF programs see CRS Report R44963, *Wastewater Infrastructure: Overview, Funding, and Legislative Developments*, by (name redacted) ; and CRS Report R45304, *Drinking Water State Revolving Fund (DWSRF): Overview, Issues, and Legislation*, by (name redacted)

In 2014, Congress established the Water Infrastructure Finance and Innovation Act (WIFIA) program, which creates a new mechanism of providing financial assistance for water infrastructure projects. The first section of this report provides an overview of the WIFIA program, including its origins, scope, and applicability. The second section discusses EPA's implementation of the WIFIA program, including recent developments. The third section identifies and discusses selected issues that may be of interest to policymakers. The fourth section describes WIFIA program appropriation levels and estimates of the amount of credit assistance the federal funding would provide. The final section identifies recent legislative proposals that would amend the WIFIA program.

## Program Overview

The WIFIA approach for supporting investment in water infrastructure is modeled after the Transportation Infrastructure Finance and Innovation Act (TIFIA) program, which was established in 1998 (see textbox below for further details). As the name suggests, only transportation projects are eligible for TIFIA assistance. The TIFIA program generated interest in creating a similar program for water infrastructure.

### Transportation Infrastructure Finance and Innovation Act (TIFIA)

TIFIA was enacted as part of the Transportation Equity Act for the 21<sup>st</sup> Century (TEA-21; P.L. 105-178) and was reauthorized in 2012 in the Moving Ahead for Progress in the 21<sup>st</sup> Century Act (MAP-21; P.L. 112-141). TIFIA provides federal credit assistance up to a maximum of 49% of project costs in the form of secured loans, loan guarantees, and lines of credit (23 U.S.C. 601 et seq.). Transportation projects costing at least \$50 million (or at least \$25 million in rural areas) are eligible for TIFIA financing. The threshold for Intelligent Transportation Systems projects is \$15 million. Projects must also have a dedicated revenue stream to be eligible for credit assistance. TIFIA can provide senior or subordinated debt. With the enactment of MAP-21, funding authorized for the TIFIA program increased from \$122 million annually to \$750 million in FY2013 and \$1 billion in FY2014 and FY2015. However, the Fixing America's Surface Transportation Act (FAST Act, P.L. 114-94), enacted in December 2015, reduced the amount available to support TIFIA loans and other credit assistance. Under the FAST Act, the annual amount is \$275 million in each of FY2016 and FY2017, \$285 million in FY2018, and \$300 million in each of FY2019 and FY2020.

The Water Resources Reform and Development Act of 2014 (WRRDA 2014) established a five-year WIFIA pilot program.<sup>5</sup> The act authorizes (1) EPA to provide credit assistance (loans or loan guarantees)<sup>6</sup> for a range of drinking water and wastewater projects and (2) the U.S. Army Corps of Engineers to provide similar assistance for water resource projects, such as flood control or hurricane and storm damage reduction.

Congress provided appropriations to EPA to begin implementing the WIFIA program in FY2014. Congress has not appropriated analogous funds to the Corps (nor has the Administration requested funds for a Corps WIFIA program) that would enable the Corps to implement a WIFIA program as laid out in WRRDA 2014. Regardless, this section identifies WIFIA provisions relating to both EPA and the Corps.

<sup>5</sup> The President signed the bill into law on June 10, 2014 (P.L. 113-121). A standalone measure to create a WIFIA program was also introduced in the 113<sup>th</sup> Congress: S. 335 proposed to empower the EPA Administrator to provide credit assistance to drinking water and wastewater infrastructure projects. It was not a pilot program, as in P.L. 113-121.

<sup>6</sup> Although WIFIA credit assistance may include direct loans and loan guarantees, EPA stated that based on experience from comparable government credit programs, the agency does not anticipate immediate demand for loan guarantee instruments. See EPA, *WIFIA Program Handbook*, 2017, [https://www.epa.gov/sites/production/files/2017-07/documents/program\\_handbook\\_7-18-17\\_final.pdf](https://www.epa.gov/sites/production/files/2017-07/documents/program_handbook_7-18-17_final.pdf).

To implement the program, the act authorizes appropriations of \$175 million over five years to both EPA and the Corps (beginning with \$20 million for each agency in FY2015 and increasing to \$50 million in FY2019). Project costs must generally be \$20 million or larger to be eligible for credit assistance. In rural areas (defined by WIFIA as populations of 25,000 or less), project costs must be \$5 million or more. WIFIA credit assistance is available to

- state infrastructure financing authorities (one application for multiple projects);
- a corporation;
- a partnership;
- a joint venture;
- a trust; or
- a federal, state, local, or tribal government (or consortium of tribal governments).

In the case of projects carried out by private entities, such projects must be publicly sponsored. To meet this requirement, the legislation allows a project applicant to demonstrate to the EPA or the Corps that the affected state, local, or tribal government supports the project. The maximum amount of a loan is 49% of eligible project costs, but the legislation authorizes EPA or the Corps to make available up to 25% of available funds each year for credit assistance in excess of 49% of project costs. Except for certain projects in rural areas, the total amount of federal assistance (i.e., WIFIA and other sources) may not exceed 80% of a project's cost.

Activities eligible for assistance under the WIFIA pilot program include project development and planning, construction, acquisition of real property, and carrying costs during construction. Categories eligible for assistance by EPA include

- projects eligible for assistance through the Clean Water Act and Safe Drinking Water Act state revolving fund (SRF) programs (i.e., wastewater treatment and community drinking water facilities);
- enhanced energy efficiency of a public water system or wastewater treatment works;
- repair or rehabilitation of aging wastewater and drinking water systems;
- desalination, water recycling, aquifer recharge, or development of alternative water supplies to reduce aquifer depletion;
- prevention, reduction, or mitigation of the effects of drought;<sup>7</sup> or
- a combination of eligible projects.

Categories eligible for assistance by the Corps include

- flood control or hurricane and storm damage reduction projects,
- environmental restoration,
- coastal or inland harbor navigation improvement, or
- inland and intracoastal waterways navigation improvement.

The EPA Administrator or Secretary of the Army, as appropriate, determines project eligibility based on creditworthiness and dedicated revenue sources for repayment. Selection criteria include

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<sup>7</sup> The WIIN Act (P.L. 114-322) expanded WIFIA eligibility to include projects involving aquifer recharge; development of alternative water supplies to reduce aquifer depletion; and prevention, reduction, or mitigation of the effects of drought. For more information, see CRS In Focus IF10536, *Water Infrastructure Improvements for the Nation Act (WIIN)*, by (name redacted) et al.

- the national or regional significance of the project,
- extent of public or private financing in addition to WIFIA assistance,
- use of new or innovative approaches,
- the amount of budget authority required to fund the WIFIA assistance,
- the extent to which a project serves regions with significant energy development or production areas, and
- the extent to which a project serves regions with significant water resources challenges.

Responding to concerns from some groups that WIFIA could impair and diminish support for clean water and drinking water SRF programs under the Clean Water Act and Safe Drinking Water Act (see discussion below), the act requires the EPA Administrator, when the agency receives applications for WIFIA assistance, to give state infrastructure financing authorities a “right of first refusal” to assist the project through SRF monies.

WIFIA-assisted projects must use American-made iron and steel products. Projects must also comply with the prevailing wage requirements of the Davis-Bacon Act in the same manner that they would under the SRF provisions of the Clean Water Act.<sup>8</sup>

In addition, the act directs EPA and the Corps to provide information on a website concerning applications and projects that have received assistance, and the Government Accountability Office must report to Congress (four years after enactment, i.e., June 10, 2018) on the pilot programs and provide recommendations for continuing, changing, or terminating the WIFIA program.<sup>9</sup>

## EPA Implementation

EPA began preparing for implementation of the WIFIA program, including through a series of public listening sessions in several U.S. cities, in 2014. The intended audience was municipal, state, and regional water utility officials; private sector financing professionals; and other interested organizations and parties. The purpose was to discuss project ideas, potential selection and evaluation criteria, and numerous other implementation issues.

In December 2016, EPA issued two rules intended to explain and clarify some provisions of the program and establish guidelines for the application process. One was an interim final rule that sets guidelines for the application and selection of projects, defines the requirements for credit assistance, and defines reporting requirements and a fee collection structure.<sup>10</sup> In this rule, EPA said that it will initially give funding priority to four types of projects:

1. adaptation to extreme weather and climate change;
2. enhanced energy efficiency of wastewater treatment works and public water systems;

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<sup>8</sup> For more background on the Davis-Bacon Act, see this Department of Labor website, <https://www.dol.gov/whd/govcontracts/dbra.htm>.

<sup>9</sup> EPA’s WIFIA website is <https://www.epa.gov/wifia>.

<sup>10</sup> EPA, “Credit Assistance for Water Infrastructure Projects, interim final rule; request for public comments,” 81 *Federal Register* 91822, December 19, 2016. An interim final rule is one that is adopted without prior public comment and is made effective immediately, although federal agencies typically request comments and can alter the interim rule if warranted by public comments.

3. green infrastructure;<sup>11</sup> and
4. repair, rehabilitation, and replacement of infrastructure and conveyance systems.

Through the second rulemaking, EPA proposed a fee structure for WIFIA (application fee, credit processing fee, and servicing fee).<sup>12</sup> EPA finalized this rule in June 2017.<sup>13</sup> WIFIA authorizes EPA to charge fees to recover all or a portion of the agency's costs administering the program.<sup>14</sup> EPA's final rule requires a nonrefundable fee for each project that is invited to submit a full WIFIA application. The application fee is \$100,000, or \$25,000 for projects serving small communities. The fee would not be required in connection with submission of letters of interest but would be required for projects that EPA expects might reasonably proceed to closing on a credit assistance agreement. Enacted December 16, 2016, the Water Infrastructure Improvements for the Nation (WIIN) Act (P.L. 114-322, Section 5008(c)) amended WIFIA to allow fees to be financed as part of the loan at the request of an applicant.<sup>15</sup>

EPA began accepting loan applications for its WIFIA program in January 2017. EPA received 43 letters of interest from prospective borrowers in the agency's first round of funding solicitation. In aggregate, the prospective borrowers requested \$6 billion in WIFIA loans.<sup>16</sup> In July 2017, EPA selected 12 projects to continue the application process. The loan amounts requested for the projects ranged from \$22 million to \$625 million for a total of \$2.3 billion.<sup>17</sup> On April 20, 2018, EPA issued its first WIFIA loan.<sup>18</sup>

On April 4, 2018, EPA announced a second round of funding. EPA estimated that its budget authority (\$55 million) would provide approximately \$5.5 billion in credit assistance.

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<sup>11</sup> In the interim final rule, EPA defines *green infrastructure* as follows:

Green infrastructure includes a wide array of practices at multiple scales that manage wet weather and that maintains and restores natural hydrology by infiltrating, evapotranspiring and harvesting and using stormwater. On a regional scale, green infrastructure is the preservation and restoration of natural landscape features, such as forests, floodplains and wetlands, coupled with policies such as infill and redevelopment that reduce overall imperviousness in a watershed. On the local scale, green infrastructure consists of site- and neighborhood-specific practices, such as bioretention, trees, green roofs, permeable pavements and cisterns. (81 *Federal Register* 91828)

<sup>12</sup> EPA, "Fees for Water Infrastructure Project Applications Under WIFIA," Proposed Rule, 81 *Federal Register* 91890, December 19, 2016.

<sup>13</sup> EPA, "Fees for Water Infrastructure Project Applications Under WIFIA, Final Rule," 82 *Federal Register* 29242, June 28, 2017.

<sup>14</sup> 33 U.S.C. §3909.

<sup>15</sup> In the preamble to its final rule, EPA notes:

While not reflected in this rule, the ability to finance fees as part of a WIFIA loan is an option available to applicants. EPA will publish additional information or guidance, as necessary, on its Web site. (82 *Federal Register* 29242)

<sup>16</sup> See EPA's website for updated information, <https://www.epa.gov/wifia>.

<sup>17</sup> EPA, WIFIA Financing Requests, FY2017 Letters of Interest, <https://www.epa.gov/wifia/wifia-financing-requests>.

<sup>18</sup> See EPA, "EPA Announces First Water Infrastructure Loan Under WIFIA," press release, April 20, 2018, <https://www.epa.gov/newsreleases/epa-announces-first-water-infrastructure-loan-under-wifia>.

## Selected Issues

### Subsidy Amount for Credit Assistance

From the federal perspective, an advantage of the WIFIA program is that it can provide a large amount of credit assistance relative to the amount of budget authority provided. In federal budgetary terms, WIFIA assistance has less of an impact than a grant, which is not repaid to the U.S. Treasury.

The volume of loans and other types of credit assistance that the program can provide is determined by the size of congressional appropriations and calculation of the subsidy amount. WIFIA defines the “subsidy amount” as follows:

The amount of budget authority sufficient to cover the estimated long-term cost to the Federal Government of a Federal credit instrument, as calculated on a net present value basis, excluding administrative costs and any incidental effects on governmental receipts or outlays in accordance with the Federal Credit Reform Act of 1990 (2 U.S.C. 661 et seq.).<sup>19</sup>

The subsidy amount, which is often expressed in percentage terms or as a ratio (i.e., subsidy rate), largely determines the amount of credit assistance that can be made available to project sponsors.<sup>20</sup> For example, if a project’s subsidy rate is 10% and is the only charge against available budget authority, a \$20 million budgetary allocation could theoretically support a \$200 million loan. A lower subsidy rate would support a larger loan amount.

As a reference point, the Office of Management and Budget (OMB) identified a TIFIA subsidy rate of 6.30% for direct loans in FY2019.<sup>21</sup> Proponents of WIFIA have argued that loans for water projects are likely to be less risky than transportation projects, because water utility collections for services (i.e., water rates) provide an established revenue stream and repayment mechanism; thus the subsidy cost would be lower and the amount of credit assistance higher (per dollar of budget authority).<sup>22</sup> Adding caution, however, analysts note that, even with stable revenue mechanisms, some communities and water utilities have recently experienced problems with borrowing and bond repayments, so repayment of a WIFIA loan is not a certainty.<sup>23</sup>

In the Trump Administration’s FY2019 budget proposal, OMB estimated a 0.98% subsidy rate for WIFIA.<sup>24</sup> This equates to a 1:102 ratio. At this subsidy rate, a \$10 million appropriation could support a direct loan (or loans) totaling \$1.02 billion. However, this subsidy rate is an estimate for

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<sup>19</sup> 33 U.S.C. §3901(13).

<sup>20</sup> Douglas J. Elliott, *Budgeting for Credit Programs: A Primer*, Center for Federal Financial Institutions, April 2004, <http://www.coffi.org/pubs/Budgeting%20Primer.pdf>.

<sup>21</sup> OMB, *Budget of the United States Government, FY2019*, Supplemental Materials, Direct Loans: Subsidy Rates, Obligations, and Average Loan Size, <https://obamawhitehouse.archives.gov/omb/budget/Supplemental>.

<sup>22</sup> See for example, testimony of Aurel Arndt, in U.S. Congress, House Committee on Transportation and Infrastructure, Subcommittee on Water Resources and Environment, hearing on Innovative Funding of Water Infrastructure of the United States, 112<sup>th</sup> Cong., 2<sup>nd</sup> sess., February 28, 2012, <http://republicans.transportation.house.gov/Media/file/TestimonyWater/2012-02-28-Arndt.pdf>.

<sup>23</sup> LaShell Stratton-Childers, “Navigating a Rough Terrain,” *Water Environment and Technology*, January 2012, pp. 24-29. This article describes the November 2011 bankruptcy filing by Jefferson County, AL, in part resulting from the county’s inability to cover debts for wastewater system upgrades.

<sup>24</sup> OMB, *Budget of the United States Government, FY2019*, Federal Credit Supplement, Table 1, <https://www.gpo.gov/fdsys/pkg/BUDGET-2019-FCS/pdf/BUDGET-2019-FCS.pdf>.

budgetary purposes. In the context of WIFIA implementation, subsidy rates are project-specific.<sup>25</sup> EPA stated that the subsidy rate

is used for budgetary purposes and provides an estimate for what will be available for loans each year based on the anticipated riskiness of the future loan portfolio. The actual ratio will be determined for each project at the time of loan obligation. Project A with a higher credit quality would consume less of the credit subsidy than Project B with a lower credit quality, even if the projects are otherwise identical. Each applicant will be scored independently.<sup>26</sup>

## Loan Interest Rates and Default Risk

The WIFIA program provides capital at a low cost to the borrower, because even though the interest on 30-year Treasury securities is taxable, Treasury rates can be less expensive than rates on traditional tax-exempt municipal debt. Moreover, WIFIA financing may be characterized as patient capital, because loan repayment does not need to begin until five years after substantial completion of a project, the loan can be for up to 35 years from substantial completion, and the amortization schedule can be flexible. In addition, there is less perceived investment risk, because the project has been determined to be creditworthy (i.e., there is a revenue stream for repayment).

Additionally, the WIFIA program has the potential to limit the federal government's exposure to default by relying on market discipline through creditworthiness standards and encouraging private capital investment.

On the other hand, the Congressional Budget Office (CBO) has argued<sup>27</sup> that the federal government underestimates the cost of providing credit assistance under such programs because it excludes

the cost of market risk—the compensation that investors require for the uncertainty of expected but risky cash flows. The reason is that the [Federal Credit Reform Act] requires analysts to calculate present values by discounting expected cash flows at the interest rate on risk-free Treasury securities (the rate at which the government borrows money). In contrast, private financial institutions use risk-adjusted discount rates to calculate present values.<sup>28</sup>

In an effort to encourage nonfederal and private sector financing, WIFIA funding assistance cannot exceed 49% of project costs. In addition, WIFIA limits all sources of federal assistance to no more than 80% of a project's cost.

## Interactions with Existing Water Financing Programs

In general, the WIFIA program is designed to support larger infrastructure projects with eligible costs exceeding \$20 million. For this reason, some have argued that the WIFIA program complements existing water infrastructure financing tools—SRF programs under the Clean Water Act and Safe Drinking Water Act—which are often used for smaller-scale projects.

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<sup>25</sup> 33 U.S.C. §3908(a)(2).

<sup>26</sup> EPA WIFIA website, "Frequent Questions," <https://www.epa.gov/wifia/learn-about-wifia-program#questions>.

<sup>27</sup> For more on this topic generally, see CBO, *Fair-Value Accounting for Federal Credit Programs*, March 2012, [http://www.cbo.gov/sites/default/files/cbofiles/attachments/03-05-FairValue\\_Brief.pdf](http://www.cbo.gov/sites/default/files/cbofiles/attachments/03-05-FairValue_Brief.pdf).

<sup>28</sup> CBO, "Estimating the Value of Subsidies for Federal Loans and Loan Guarantees," August 2004, p. 2, <http://www.cbo.gov/ftpdocs/57xx/doc5751/08-19-CreditSubsidies.pdf>.

Policymakers set a lower funding threshold (\$5 million) for WIFIA projects in communities with populations less than 25,000. However, none of these communities received WIFIA financing in the first round of WIFIA funding, as the smallest loan amount was \$22 million.<sup>29</sup> Generally, the level of interest from less populous communities in WIFIA financing is uncertain, particularly considering the other financing options that may be available. For example, the U.S. Department of Agriculture has a variety of water and waste disposal programs to provide loans and grants for wastewater and drinking water infrastructure in rural communities (10,000 people or fewer). In addition, both of the SRF programs authorize states to provide subsidized financial assistance—such as principal forgiveness, negative interest loans, or a combination—under certain conditions.<sup>30</sup>

However, WIFIA financing can potentially support smaller projects by grouping, or aggregating, them through a single application for financial assistance. For example, during the first round of WIFIA funding (FY2017), one of the 12 entities selected to submit a loan application was the Indiana Finance Authority, which administers the clean water and drinking water SRF programs in Indiana. Indiana’s prospective WIFIA loan would provide \$436 million to support multiple projects in the state.

A major source of debate among opponents and proponents has been and continues to be potential impacts of WIFIA on funds for the Clean Water Act and Safe Drinking Water Act SRF programs. Several groups representing state environmental officials opposed the establishment of a WIFIA program (in the 113<sup>th</sup> Congress). They argued that WIFIA funding could result in reduced spending on the SRF programs, which are capitalized by federal appropriations. States are concerned that WIFIA would likely be funded (through congressional appropriations) to the detriment of the SRF programs.<sup>31</sup>

On the other hand, water utility groups that support WIFIA have argued that it would complement, not harm, existing SRF programs. In their view, WIFIA will provide a new funding opportunity for large water infrastructure projects that are unlikely to receive SRF assistance.<sup>32</sup> As described above, in part to address concerns about impacts of WIFIA on the SRF programs, WIFIA gives state infrastructure financing authorities a “right of first refusal” to provide SRF funds for a project when EPA receives an application for WIFIA assistance. Nevertheless, some states and environmental advocacy groups remain concerned that WIFIA will compete with SRFs for congressional funding and that WIFIA will not prioritize public health or affordability, as the SRFs can. The 2016 Water Infrastructure Improvements for the Nation Act includes a “sense of the Congress” that WIFIA funding should be in addition to robust funding for the SRFs.<sup>33</sup>

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<sup>29</sup> See EPA, “WIFIA FY 2017 Selected Projects—Summary Factsheets,” <https://www.epa.gov/wifia/wifia-fy-2017-selected-projects-summary-factsheets>.

<sup>30</sup> For more information, see CRS Report RL30478, *Federally Supported Water Supply and Wastewater Treatment Programs*, coordinated by (name redacted).

<sup>31</sup> Letter from Association of Clean Water Administrators et al. to Honorable Bill Shuster, chairman, Committee on Transportation and Infrastructure, and Honorable Nick J. Rahall II, ranking member, Committee on Transportation and Infrastructure, October 24, 2013.

<sup>32</sup> Letter from American Water Works Association, Association of Metropolitan Water Agencies, and Water Environment Federation to Honorable Barbara Boxer, chairwoman, Committee on Environment and Public Works, September 9, 2013.

<sup>33</sup> P.L. 114-322, §5008(d).

## Potential Federal Revenue Loss from Tax-Exempt Bonds

Enacting the WIFIA program raised a federal budgetary and revenue issue. Legislation reported by congressional committees is typically scored by the CBO for the effects on discretionary and mandatory, or direct, spending and by the Joint Committee on Taxation (JCT) for effects on revenue. The initial CBO cost estimate for S. 601, as approved by the Environment and Public Works Committee in April 2013, concluded that the WIFIA provisions would cost \$260 million over five years. In addition, it would result in certain revenue loss to the U.S. Treasury; thus, pay-as-you-go procedures would have applied to the bill.<sup>34</sup> CBO cited the JCT estimate that enactment of the bill would reduce revenues by \$135 million over 10 years, because states would be expected to issue tax-exempt bonds for water projects in order to acquire additional funds not covered by WIFIA assistance.<sup>35</sup> To avoid the pay-as-you-go requirement in the bill, the committee added a provision to S. 601 to prohibit recipients of WIFIA assistance from issuing tax-exempt bonds for the non-WIFIA portions of project costs. CBO re-estimated the bill and concluded that, because the change would make the WIFIA program less attractive to entities, most of which rely on tax-exempt bonds for project financing, the cost of the bill would be \$200 million less over five years. CBO also said that the bill would have no impact on revenues, because the demand for federal credit would be lower without the option of using tax-exempt financing.<sup>36</sup> WRRDA 2014 retained the bar on tax-exempt financing for WIFIA-assisted projects. Thus, the apparent solution to one issue in the legislation—potential revenue loss to the U.S. Treasury—raised a different kind of issue for entities seeking WIFIA credit assistance, because tax-exempt municipal bonds are the principal mechanism used by local governments to finance water infrastructure projects.

The restriction was widely criticized by potential users of WIFIA assistance. In their view, the bond financing restriction in WRRDA 2014, together with the provision that caps WIFIA assistance at 49% of project costs, would make it very difficult to finance needed projects. Congressional interest in addressing the tax-exempt bond restriction was soon evident. For example, H.R. 1710 in the 114<sup>th</sup> Congress proposed to make an exception from the limitation on use of tax-exempt bonds for WIFIA loans made to finance water infrastructure projects in states in which the governor has issued a state of drought emergency declaration.

More generally, in July 2015, the Senate passed H.R. 22, a bill to reauthorize highway and transportation programs for six years. It included repeal of the provision in P.L. 113-121 that limits any project receiving federal credit assistance under the WIFIA program from being financed with tax-exempt bonds. However, repeal of the provision raised similar revenue questions to those that arose in connection with P.L. 113-121. CBO's report on S. 1647 (the Senate Environment and Public Works Committee's bill, which was the basis of Senate-passed H.R. 22)<sup>37</sup> stated that the Joint Committee on Taxation (JCT) estimated that repealing the WIFIA limitation would increase states' issuance of tax-exempt bonds for water projects and would decrease federal revenues by \$17 million over the FY2016-FY2025 period. Further, CBO estimated that the change would increase demand for federal credit under the WIFIA program,

<sup>34</sup> "Pay-as-you-go," or PAYGO, is a budget rule requiring that, relative to current law, any tax cuts or entitlement and other mandatory spending increases must be paid for by a tax increase or a cut in mandatory spending. See CRS Report RL31943, *Budget Enforcement Procedures: The Senate Pay-As-You-Go (PAYGO) Rule*, by (name redacted)

<sup>35</sup> CBO, Cost Estimate for S. 601, Water Resources Development Act of 2013, April 9, 2013, p. 6.

<sup>36</sup> CBO, Cost Estimate for S. 601, Water Resources Development Act of 2013, April 17, 2013, p. 7.

<sup>37</sup> U.S. Congress, Senate Committee on Environment and Public Works, *Developing A Reliable and Innovative Vision for the Economy (DRIVE) Act*, report to accompany S. 1647, 114<sup>th</sup> Cong., 1<sup>st</sup> sess., July 15, 2015, S.Rept. 114-80 (Washington: GPO, 2015), pp. 27-33.

resulting in additional spending stemming from the appropriation levels authorized in P.L. 113-121. Consequently, CBO estimated that implementing the WIFIA program would cost \$146 million over the FY2016-FY2025 period.<sup>38</sup>

The issue of identifying offsets, or “pay-fors,” for the estimated federal revenue loss was addressed in the conference agreement on H.R. 22, the FAST Act (P.L. 114-94). CBO estimated that the conference agreement included offsets to fully cover the cost of the bill by reducing spending or raising revenues.<sup>39</sup> Thus, the enacted bill retained the provision repealing the tax-exempt bond financing restriction on WIFIA assistance.

## Appropriations

For each of FY2015 and FY2016, Congress provided funding (\$2.2 million) for EPA to hire staff and design the new water infrastructure assistance program. In FY2017, Congress provided the first appropriations to cover the subsidy cost of the program, thus allowing implementation of WIFIA (i.e., making project loans). Congress provided a total of \$30 million for the WIFIA program for FY2017 through two appropriations acts:

- The Further Continuing and Security Assistance Appropriations Act, 2017 (P.L. 114-254), enacted on December 10, 2016, provided the first appropriation of funds to cover the subsidy cost of the program. P.L. 114-254 appropriated \$20 million to EPA to begin making loans and allows the agency to use up to \$3 million of the total for administrative purposes. Under the act, these funds are available to subsidize obligations not to exceed \$2.1 billion in WIFIA assistance.
- The Consolidated and Further Continuing Appropriations Act, 2017 (P.L. 115-31), enacted on May 5, 2017, provided an additional \$10 million (\$8 million for EPA to apply toward loan subsidy costs and an additional \$2 million for EPA’s administrative expenses).

From the combined FY2017 appropriation for subsidy costs (\$25 million), the agency invited 12 entities across the country to apply for water infrastructure project loans totaling \$2.3 billion. EPA will process the loan applications upon receipt at the agency. If some of the FY2017 subsidy costs are not used (e.g., if a loan application is not received or approved), the funds would be available for credit assistance in subsequent years.

For FY2018, the Consolidated Appropriations Act, 2018 (P.L. 115-141), provided \$63 million for the WIFIA program (including \$8 million for administrative costs).<sup>40</sup> As noted above, EPA estimated (in April 2018) that its budget authority (\$55 million) would provide approximately \$5.5 billion in credit assistance.

As discussed above, WRRDA 2014 authorized a parallel program for water resources projects to be administered by the Corps. Congress has not yet appropriated funds (nor has the

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<sup>38</sup> CBO, Cost Estimate for S. 1647, Developing a Reliable and Innovative Vision for the Economy Act, July 14, 2015, p. 3.

<sup>39</sup> Letter from Keith Hall, director, CBO, to Honorable Bill Shuster, chairman, and Peter DeFazio, ranking member, House Transportation and Infrastructure Committee, December 2, 2015, [https://www.cbo.gov/sites/default/files/114th-congress-2015-2016/costestimate/hr22\\_1.pdf](https://www.cbo.gov/sites/default/files/114th-congress-2015-2016/costestimate/hr22_1.pdf).

<sup>40</sup> Prior to the enactment of P.L. 115-141, the Continuing Appropriations Act, 2018, and Supplemental Appropriations for Disaster Relief Requirements Act, 2017 (P.L. 115-56, §133), provided to EPA for FY2018 administrative expenses to carry out the WIFIA program “at a rate for operations of \$3 million.”

Administration requested funds for a Corps WIFIA program) that would enable the Corps to begin preparations or begin making WIFIA loans under the authority in the 2014 statute.

## Legislation

### Legislation in the 114<sup>th</sup> Congress

WRRDA 2014 authorized WIFIA as a five-year pilot program with appropriations authority through FY2019. Several bills in the 114<sup>th</sup> Congress included provisions that would have eliminated the “pilot” designation of the program and make it permanent. The Senate passed one such bill, S. 2848, in 2016. S. 2848 had also proposed other changes to WIFIA.

In December 2016, Congress enacted the Water Infrastructure Improvements for the Nation Act, which included many of the provisions of Senate-passed S. 2848, including several WIFIA provisions. Specifically, the WIIN Act adds eligibility for certain types of desalination, water recycling, and drought mitigation projects. It allows communities to pay loan fees from the WIFIA loan itself and allows in-kind contributions and project costs incurred prior to receiving a loan to count toward the nonfederal share of project costs. The WIIN Act also included “sense of the Congress” language that appropriations to support WIFIA should supplement not replace SRF funding under the CWA and Safe Drinking Water Act. The “pilot” status of the WIFIA program was not changed.

Interest in using WIFIA as a model for other infrastructure financing programs has been apparent. For example, several bills in the 114<sup>th</sup> Congress proposed to establish a WIFIA-type program for water reclamation and reuse projects in western states—to be administered by the Department of the Interior. These proposals, sometimes referred to as “Reclamation for WIFIA,” or RIFIA, were included in S. 176/H.R. 291 (the Water in the 21<sup>st</sup> Century Act), S. 1837 (Drought Recovery and Resiliency Act), S. 1894 (the California Emergency Drought Relief Act of 2015), S. 2533/H.R. 5247 (California Long-Term Provisions for Water Supply and Short-Term Provisions for Emergency Drought Relief Act), and H.R. 6022 (the New WATER Act). None of these bills was enacted.

### Legislation in the 115<sup>th</sup> Congress

The 115<sup>th</sup> Congress is considering S. 3021, America’s Water Infrastructure Act of 2018. S. 3021 combines elements of two omnibus water authorization bills considered by the 115<sup>th</sup> Congress: H.R. 8, the Water Resources Development Act of 2018, and S. 2800, America’s Water Infrastructure Act of 2018.

S. 3021, which passed the House on September 13, 2018, would make WIFIA a permanent rather than a pilot program and authorize appropriations at a level of \$50 million for each of FY2020 and FY2021. It would establish special rules for WIFIA assistance to state SRF finance authorities, including allowing states to finance up to 100% of project costs using WIFIA assistance. S. 3021 would also authorize another \$5 million in appropriations for WIFIA assistance to state finance authorities in years where EPA receives at least \$50 million in WIFIA appropriations. However, this extra \$5 million would be available only if appropriations for the clean water and drinking water SRF programs match at least the FY2018 level or 105% or more of the previous year’s funding, whichever is greater. The WIFIA provisions in S. 3021 parallel some of the elements of the SRF WIN bills discussed below.

In addition, Members in the 115<sup>th</sup> Congress have introduced other bills that would revise the WIFIA program in various ways. The Water Infrastructure Finance and Innovation Reauthorization Act of 2017 (companion bills H.R. 4492 and S. 2329) would amend WIFIA to authorize EPA to administer the program for all eligible projects (including those currently identified for the Corps WIFIA program) while requiring the Secretary of the Army to approve applications for WIFIA projects eligible for the Corps WIFIA program. As noted above, Congress has not appropriated funds to support such a Corps program. H.R. 4492 and S. 2329 would also extend and increase authorizations of appropriations—starting with \$90 million for FY2019 and increasing to \$140 million for FY2024—and require that 50% of the funds be made available for Corps-approved projects.

The Securing Required Funding for Water Infrastructure Now Act (SRF WIN; companion bills H.R. 4902 and S. 2364) would add a new section to WIFIA, authorizing EPA to provide financial assistance (e.g., secured loans) to SRF programs to support eligible wastewater and drinking water projects. Although state SRF financing authorities are currently eligible to receive WIFIA assistance, the SRF WIN bills would authorize EPA to provide secured loans at subsidized interest rates for eligible states. These states would include those that received less than 2% of the SRF funds in the most recent year or states in which the President declared a major disaster between 2017 and the enactment date. These loans would be limited to wastewater or drinking water infrastructure damaged by the major disaster. Funding for the subsidized loans would be capped. Unlike other WIFIA assistance, the federal assistance under this section would be able to support 100% of project costs, and application fees would be waived. The bills would authorize appropriations of \$200 million for each fiscal year between FY2019 and FY2023. However, no funding would be available if the SRF program appropriation was less than the amount provided in FY2018.

S. 2800, America’s Water Infrastructure Act of 2018, as reported, includes in Section 5015 provisions that are similar to the SRF WIN bills.<sup>41</sup> Among other WIFIA amendments, S. 2800 would eliminate the “pilot” designation of the program and reauthorize appropriations for EPA and the Corps to each administer a WIFIA program.

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This report was originally written by (name redacted), who has retired from CRS.

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<sup>41</sup> CRS Report R45212, *Water Resources Development Act of 2018 and America’s Water Infrastructure Act of 2018: An Overview*, by (name redacted) and (name redacted)

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