The North American Development Bank (NADB) provides financing and other support for infrastructure projects that enhance the environmental condition of the U.S.-Mexico border region. NADB works closely with border communities, state agencies and other entities to develop and finance affordable, self-sustaining projects with broad community support. Each project must pass through a public participation and certification process to be eligible for financing from NADB.

During the last quarter of 2019, NADB had 47 active projects in various stages of project implementation. A total of US$618.6 million in loans and grants has been contracted to help finance those projects, and approximately 81% of those funds have already been disbursed to project sponsors. Ten projects completed construction and/or financing activity during the period, leaving 37 active projects at the end of the quarter. A breakdown of NADB financing by program for the active projects is shown in the table below.

### NADB Funding by Program for Active Projects

<table>
<thead>
<tr>
<th>Funding Programs</th>
<th>Active Projects per Program*</th>
<th>Financing Contracted for Active Projects</th>
<th>Pending Disbursement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loan Program</td>
<td>18</td>
<td>$540,446,092</td>
<td>$99,857,957</td>
</tr>
<tr>
<td>NADB-funded grant programs**</td>
<td>10</td>
<td>4,356,515</td>
<td>2,111,666</td>
</tr>
<tr>
<td>Border Environment Infrastructure Fund (BEIF)***</td>
<td>22</td>
<td>73,786,822</td>
<td>16,053,669</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>$618,589,429</strong></td>
<td><strong>$118,023,292</strong></td>
</tr>
</tbody>
</table>

* Some projects have both a loan and a grant. Likewise, a loan or grant may cover more than one project.

** NADB-funded grant programs include the Community Assistance Program (CAP) and the Water Conservation Investment Fund (WCIF).

*** BEIF: EPA-funded grant program that offers financing for the implementation of municipal drinking water and wastewater infrastructure projects.

To date, NADB has contracted a cumulative total of approximately US$3.26 billion in loans and grants to help finance 262 certified projects estimated to cost a total of US$9.95 billion to implement. Of the financing contracted, 96% has been disbursed to project sponsors for the implementation of 254 projects. Of the 262 projects financed by the Bank, 224 have completed construction and financing activity (except for the amortization of loans) and/or have otherwise been closed.

The implementation status of NADB-funded active projects is presented in the following pages.
**Ahumada, Chihuahua, Mexico**

**Equipment for Sanitary Landfill Operations**

- **Type:** Solid waste
- **Total Cost:** US $292,000
- **Total NADB Funding:** US $300,000
- **Certification Date:** 6 / 16 / 16
- **Residents to Benefit:** 11,457

**Description:** Acquisition of new equipment for landfill operations, including a mini-loader skid steer, water truck, 3.5 or 4-ton truck with hydraulic dump, vehicle scale, portable generator, portable welder and pressure washer.

**Community Benefits:** Improved landfill operations for the proper disposal of up to 10 metric tons of solid waste per day in compliance with applicable laws and regulations, reducing risks for soil and groundwater contamination, as well as the transmission of vector-related diseases.

**NADB Participation:** The Bank is a source of grant funds through the Community Assistance Program (CAP), which complements the landfill construction project funded jointly by the Municipality and the Mexican federal government. On June 16, 2016, the Bank approved a CAP grant for up to US$300,000 to cover the equipment costs, including possible fluctuations in the exchange rate. The corresponding grant agreement was signed on December 12, 2016. The first disbursement occurred in June 2018.

**Implementation Status:** Bidding to procure the landfill equipment began in August 2017. Contracts for the purchase of a flatbed truck and water tank truck were awarded in October 2017, and the equipment was delivered in June 2018. A contract for the purchase of a skid steer was awarded in May 2018, and the equipment was delivered in October 2018.

Training will be provided in the proper operation and maintenance of the equipment during the first quarter of 2020. Additionally, the two-year maintenance service package included with the equipment purchase is being funded and monitored by the Bank.

**Anthony, New Mexico, USA**

**Anthony Lift Station Replacement Project**

- **Type:** Wastewater
- **Total Cost:** US $4,542,241
- **Total NADB Funding:** US $3,391,400
- **Certification Date:** 5 / 6 / 16
- **Residents to Benefit:** 8,700

**Description:** Replacement of the Sonic Lift Station, including construction of a force main and gravity line, to convey wastewater to the Anthony Wastewater Treatment Plant.

**Community Benefits:** Elimination of the risk of sewage overflows in populated areas surrounding the existing lift station. Increased flow capacity and operational efficiency reducing energy consumption and operation and maintenance costs.

**NADB Participation:** The Bank is a source of grant funds through the Border Environment Infrastructure Fund (BEIF). On February 29, 2016, EPA approved the Bank’s recommendation to provide US$2.81 million in BEIF construction assistance for this project. The corresponding grant agreement was signed on June 17, 2016. Disbursements began in October 2018. On December 31, 2019, EPA approved an additional US$580,000 in BEIF funds to cover increased construction costs based on actual procurement results, bringing total BEIF participation in this project to US$3.39 million.

**Implementation Status:** Bidding for construction of the lift station began in April 2017; however, the bids received exceeded available funding. A new bidding process began in March 2018, and the contract was awarded in July 2018. Construction of the force main was completed in November 2018.

Construction of the gravity line was completed in December 2019. Construction of the lift station is approximately 94% complete.

**Benjamin Hill, Sonora, Mexico**

**Don Diego Solar Energy Project**

- **Type:** Renewable energy
- **Total Cost:** Reserved
- **Total NADB Funding:** US $100,000,000
- **Certification Date:** 11 / 14 / 19
- **Residents to Benefit:** 186,056

**Description:** Construction of a 125-MW solar park, using photovoltaic modules mounted on a single-axis tracker system on rural land.

**Community Benefits:** Reduced demand for traditional fossil-fuel based energy generation resulting in less greenhouse gas emissions, thus improving air quality, while providing a safe and reliable energy alternative. Specifically, the project is expected to help prevent the emission of an estimated 169,443 metric tons/year of carbon dioxide (CO₂) and 1,340 metric tons/year of sulfur dioxide (SO₂), among other pollutants.

**NADB Participation:** The Bank is a direct lender to the project company, Infraestructura Energética Nova, S.A.B. de C.V. (IEnova), which has signed power purchase agreements with subsidiaries of a Mexican retail company. On November 14, 2019, the Bank approved a market-rate loan for up to US$100,000 million for construction of the project. The corresponding loan agreement was contracted on November 19, 2019, and the loan was fully disbursed on December 5, 2019.

**Implementation Status:** Construction of the solar park began in February 2019 and is 95% complete.
<table>
<thead>
<tr>
<th>PROJECT</th>
<th>DESCRIPTION</th>
<th>NADB PARTICIPATION</th>
<th>IMPLEMENTATION STATUS</th>
</tr>
</thead>
</table>
| Brownsville, Texas, USA  
Wastewater Collection System and Residential Connections in FM 511-802 Colonias | Construction of a wastewater collection system, including seven new lift stations, rehabilitation of three lift stations and installation of up to 465 new residential connections and decommissioning of on-site sanitary systems in the FM 511-802 colonias, southeast of Brownsville, TX.  
**Community Benefits**  
First-time access to wastewater collection and treatment services for a previously unserved area. Reduction of environmental and health hazards associated with inadequate on-site wastewater treatment systems, thus providing a cleaner, healthier environment for local residents. Specifically, an estimated 210,000 gallons a day (gpd) of sewage will be collected and treated through the new system. | The Bank is a source of grant funds through the BEIF, to complement a loan and grant from the Texas Water Development Board (TWDB) and equity contributions from the local utility, Brownsville Public Utility Board (BPUB). On August 14, 2015, EPA approved the Bank's recommendation to provide US$3.63 million in BEIF construction assistance for the installation of sewer hookups. The corresponding grant agreement was signed on March 11, 2016. The initial disbursement occurred in September 2017. The final disbursement occurred on March 5, 2019, leaving an unused balance of US$659,148. On December 31, 2019, the unused funds were deobligated, reducing the BEIF grant for this project to US$2.97 million. | Construction of the wastewater collection system, including seven new lift stations and rehabilitation of three existing lift stations, was completed with other sources of funding. The installation of sewer hookups funded by the Bank began in July 2017. In June 2018, the scope of the contract was extended to include additional hookups. In October 2018, project construction was completed with a total of 515 residential hookups installed. |
| Camargo, Tamaulipas, Mexico  
Wastewater Collection and Treatment Project | Construction of a wastewater treatment plant (WWTP) with a capacity of 0.57 million gallons a day (mgd); replacement of a lift station, collector and sewer main; and expansion of the wastewater collection system to unserved areas of La Mision and El Sauz subdivisions, including the installation of residential connections and decommissioning of on-site disposal systems.  
**Community Benefits**  
Provision of first-time wastewater collection services to 347 homes, thus reducing the potential for groundwater contamination associated with the use of inadequate on-site disposal systems. Improved treatment facilities will produce better quality effluent that complies with federal standards for agricultural use. | The Bank is a source of grant funds through the BEIF, to complement federal, state and local funding. On June 21, 2018, EPA approved the Bank’s recommendation to provide US$2.53 million in BEIF funds for construction of the project. The corresponding grant agreement was signed on February 27, 2019. The initial disbursement occurred in June 2019. | Construction of the sewer main, the lift station and force main in La Mision and the sewer systems in El Sauz and La Mision subdivisions, along with 186 residential connections in El Sauz, was completed with Mexican funding between April 2012 and February 2017. A contact for construction of the BEIF-funded components was awarded in May 2019, including construction of the WWTP, replacement of a lift station and force main, and installation of hookups in the La Misión subdivision. Work began in June 2019 and is approximately 35% complete. |
### Cameron County Irrigation District

#### No. 6, Texas, USA

**Replacement of the River Pump Station**

<table>
<thead>
<tr>
<th>Type</th>
<th>Total Cost:</th>
<th>Total NADB Funding:</th>
<th>Certification Date:</th>
<th>Residents to Benefit:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water conservation</td>
<td>US $1,979,663</td>
<td>US $989,832</td>
<td>12 / 16 / 08</td>
<td></td>
</tr>
</tbody>
</table>

**Description**

Installation of two supplemental pumps and motors in the District’s river pump station and construction of a pipeline to connect the pumps to the canal system.

**Community Benefits**

Increased water conveyance efficiency, thereby reducing water losses from seepage and evaporation, as well as reduced energy and maintenance requirements. Annual water savings are estimated at 13,385 acre-feet/year, and energy savings at 832,030 kwh/yr.

**NADB Participation**

The Bank is a source of grant funds through the WCIF to complement funding provided by the irrigation district. On December 16, 2008, the Bank approved a US$989,832 WCIF grant to be applied towards the purchase of the equipment. The corresponding grant agreement was signed on April 16, 2009. The first disbursement was made in November 2014.

**Implementation Status**

Construction began in September 2014, and the pump station was completed and went into operation in June 2016. However, the station is underperforming because of problems with the pumps. The District is working to modify the pumps in order to improve their performance.

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### Chihuahua, Chihuahua, Mexico

**Rehabilitation and Upgrade of the North and South Wastewater Treatment Plants**

<table>
<thead>
<tr>
<th>Type</th>
<th>Total Cost:</th>
<th>Total NADB Funding:</th>
<th>Certification Date:</th>
<th>Residents to Benefit:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wastewater</td>
<td>US $14,693,467</td>
<td>US $11,226,131</td>
<td>11 / 14 / 19</td>
<td>809 232</td>
</tr>
</tbody>
</table>

**Description**

Rehabilitation and upgrade of the North and South Wastewater Treatment Plants (WWTPs), as well as designing, installing and operating a cogeneration facility in the South WWTP.

**Community Benefits**

Improvements to the treatment processes will help ensure that the WWTPs continue to comply with federal standards, as well as produce 33% less sludge, reducing the volume from approximately 85,932 yds³/year to approximately 57,288 yds³/year. The quality of the effluent produced by the plants will also be more consistent and reliable, which will support increased demand for treated water for reuse for irrigation and industrial purposes. By using the biogas from the sludge to generate electricity, the utility expects to supply close to 71% of the electricity required to operate the South WWTP, which will offset energy consumed from the public grid and thus help prevent the emission of 9,583 metric tons/year of carbon dioxide (CO₂), among other pollutants. Additionally, replacing the disinfection systems in both plants will eliminate the risk associated with handling chlorine gas.

**NADB Participation**

The Bank is a direct lender to complement equity contributions from Aguas de Reúso y Energía Renovable, S.A. de C.V. (ARERSA), the private concessionaire under a build-operate-transfer (BOT) agreement. On November 14, 2019, the Bank approved a peso-denominated, market-rate loan for US$11.26 million to cover approximately 76% of the project costs. The corresponding loan agreement was signed with ARERSA on December 16, 2019.

**Implementation Status**

The project is being constructed under a BOT agreement. Construction is expected to begin in March 2020.
<table>
<thead>
<tr>
<th>PROJECT</th>
<th>DESCRIPTION</th>
<th>NADB PARTICIPATION</th>
<th>IMPLEMENTATION STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ciudad Juarez, Chihuahua, Mexico</strong></td>
<td>Construction of the first phase of the South-South treatment plant (11.41 mgd), as well as the South-South collector (10 km).</td>
<td>The Bank is a source of grant funds through the BEIF, as well as a direct lender, to complement Mexican federal and state grants and an equity contribution from the private concessionaire under a build-operate-transfer (BOT) agreement. On November 9, 2009, EPA approved the Bank’s recommendation to provide US$8 million in BEIF funding for the construction of the collector. On December 10, 2009, the Bank approved a peso-denominated, market-rate loan for US$7.83 million for construction of the treatment plant, bringing its total participation in the project to US$15.35 million. The loan agreement was signed with the private concessionaire on March 29, 2010, and the BEIF grant agreement was signed with the local utility on April 22, 2010. The first loan disbursement was made in September 2012. The final loan disbursement was made on June 5, 2013. To help cover cost overruns stemming from the relocation of the plant and delays in construction startup, on May 8, 2014, the Bank approved a US$1.48 million loan increase for a total loan of US$9.31 million, bringing the Bank’s total participation in the project to US$17.31 million. The amended loan agreement was signed on May 28, 2014. The additional loan funds were fully disbursed on July 21, 2014. Disbursement of the BEIF grant began in October 2014. The final BEIF disbursement occurred on August 30, 2018, leaving an unused balance of US$949,155. On December 31, 2019, the unused funds were deobligated, reducing the BEIF grant for this project to US$7.05 million and the Bank’s total participation in the project to US$16.42 million. The loan is in amortization.</td>
<td></td>
</tr>
<tr>
<td><strong>Type:</strong> Wastewater</td>
<td><strong>Community Benefits</strong></td>
<td>**The utility decided to relocate the plant closer to the city to reduce construction costs. This change reduced the length of the collector from 22 km to approximately 10.36 km, thus eliminating the second phase of construction. All the required environmental assessments and clearances for the new plant site were completed in September 2012. The treatment plant was constructed under a BOT agreement. It was completed in April 2014 and began operations the same month. Construction of the 10.36-km collector began in 2010 and, as of August 2016, approximately 9.7 km of the collector was completed. Construction on the last 0.6 km of the collector funded by the state water agency, JCAS, was completed in September 2018, thus completing the entire project.</td>
<td></td>
</tr>
<tr>
<td><strong>Total Cost:</strong> US $34,380,000</td>
<td>Reduction of environmental and health hazards associated with untreated wastewater flows, thus providing a cleaner, healthier environment for local residents on both sides of the Rio Grande. Specifically, an estimated 8.56 mgd of wastewater will be treated prior to discharge.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total NADB Funding:</strong> US $16,421,778</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Certification Date:</strong> 12 / 10 / 09</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Residents to Benefit:</strong> 180,000</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Colonia Esperanza, Chihuahua, Mexico

**Wastewater Collection and Treatment Project**

<table>
<thead>
<tr>
<th>Type</th>
<th>Wastewater</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Cost</td>
<td>US $2,177,756</td>
</tr>
<tr>
<td>Total NADB Funding</td>
<td>US $425,509</td>
</tr>
<tr>
<td>Certification Date</td>
<td>9 / 28 / 07</td>
</tr>
<tr>
<td>Residents to Benefit</td>
<td>1,581</td>
</tr>
</tbody>
</table>

**Description**

Construction of a sewer system and wastewater treatment plant.

**Community Benefits**

First-time wastewater collection and treatment services to 100% of the community, which will eliminate potential environmental and health risks associated with untreated sewage.

The Bank is a source of grant funds through the BEIF, to complement state and federal funding. On September 7, 2007, EPA approved the Bank’s recommendation to provide US$430,000 in BEIF funding for construction of the project. The BEIF grant agreement was signed on October 25, 2007 and disbursements began in March 2008. The final disbursement occurred on March 25, 2011, leaving an unused balance of US$4,491. On December 31, 2019, the unused funds were deobligated, reducing the BEIF grant for this project to US$425,509.

The first phase of the sewer system, as well as the treatment plant, including pretreatment works, were completed in the third quarter of 2009. Construction of additional Bank-funded sewer lines was completed in October 2010. The lift station, grit removal system, and sewers lines financed with Mexican funds were completed in October 2011. The electrical connection to the pump station has been completed; however, during the start-up and testing phase of the pump station, sewage leaks were detected in the pipe intersections due to vandalism of the valves. Repairs by the utility were completed in September 2015, thus completing the entire project.

### Dixieland, California, USA

**SEPV Imperial Solar Project**

<table>
<thead>
<tr>
<th>Type</th>
<th>Renewable energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Cost</td>
<td>Reserved</td>
</tr>
<tr>
<td>Total NADB Funding</td>
<td>US $11,000,000</td>
</tr>
<tr>
<td>Certification Date</td>
<td>11 / 15 / 16</td>
</tr>
<tr>
<td>Residents to Benefit</td>
<td>6,436</td>
</tr>
</tbody>
</table>

**Description**

Construction of two solar facilities with a combined capacity of 5 MWac, using crystalline photovoltaic modules mounted on a single-axis tracker system.

**Community Benefits**

Reduced demand for traditional fossil-fuel based energy generation resulting in less greenhouse gases, thus improving air quality, while providing the citizens of Dixieland, with a safe, reliable energy alternative. Specifically, the project is expected to help prevent the emission of more than 4,319 metric tons/year of carbon dioxide (CO₂), as well as other pollutants, such as nitrogen oxides.

The Bank is a direct lender to the project company, SEPV Imperial, LLC., which has signed a power purchase agreement with Imperial Irrigation District (IID). On November 11, 2016, the Bank approved a US$11.0 million market-rate loan for the construction of the project. The loan agreement was signed on March 21, 2017, and disbursements began the same month.

Construction on both solar plants began in June 2016 and was completed in February 2017. Commercial operation of both facilities began on December 31, 2016.
## Douglas, Arizona, USA
### Bay Acres Wastewater Collection System and Wastewater Treatment Plant Expansion

| **Type:** | Wastewater |
| **Total Cost:** | US $19,891,871 |
| **Total NADB Funding:** | US $7,475,697 |
| **Certification Date:** | 11 / 17 / 16 |
| **Residents to Benefit:** | 17,378 |

**Description:**
Construction of a new wastewater collection system, including the installation of residential connections and the decommissioning of septic tanks, as well as upgrades to and expansion of the wastewater treatment plant from 2.0 million to 2.6 million gallons a day (gpd).

**Community Benefits**
- Provision of first-time wastewater collection and treatment services for the entire neighborhood.
- Reduction of environmental and health hazards associated with inadequate on-site wastewater treatment systems, thus providing a cleaner, healthier environment for local residents. Specifically, an estimated 96,000 gpd of sewage will be collected and treated through the new system.

**NADB Participation**
The Bank is a source of grant funds through the BEIF, to complement a loan from the Water Infrastructure Finance Authority of Arizona (WIFA) and a grant from the U.S. Department of Agriculture Rural Development (USDA-RD). On November 17, 2016, EPA approved the Bank’s recommendation to provide US$7.48 million in BEIF construction assistance for the project. The corresponding grant agreement was signed on April 19, 2017. The first BEIF disbursement occurred in June 2018.

**Implementation Status**
Bidding for wastewater treatment plant upgrades began in September 2017. The bids received exceeded available funding, so the City obtained additional funding from WIFA.

Construction of the treatment plant upgrades began in April 2018 and is 99% complete. A contract for construction of the Bay Acres wastewater collection system was awarded in October 2019, and work is scheduled to begin in January 2020.

## El Paso County, Texas, USA
### Vista del Este Water System Replacement Project

| **Type:** | Water |
| **Total Cost:** | US $1,564,000 |
| **Total NADB Funding:** | US $500,000 |
| **Certification Date:** | 11 / 17 / 16 |
| **Residents to Benefit:** | 1,068 |

**Description:**
Replacement of the water distribution system and service connections in the colonia Vista del Este.

**Community Benefits**
- Provision of safe and reliable drinking water services for 340 households, eliminating service disruptions and reducing water losses from line breaks by approximately 5 million gallons annually.

**NADB Participation**
The Bank is a source of grant funds through the CAP, to complement funding from El Paso County, TX. On November 17, 2016, the Bank approved a CAP grant for up to US$500,000 to cover approximately 32% of the project costs. The corresponding grant agreement was signed on May 25, 2017.

**Implementation Status**
Construction of the water system began in November 2019 and will take approximately 10 months to complete.
### Galeana, Chihuahua, Mexico
#### Santa María Solar Park Project

**Type:** Renewable energy  
**Total Cost:** Reserved  
**Total NADB Funding:** US $30,000,000  
**Certification Date:** 6 / 22 / 17  
**Residents to Benefit:** 195,340

**Description:** Construction of a 141.3-MW solar park using photovoltaic modules mounted on a single-axis tracker system in a rural area in the municipality of Galeana, about 30 miles southeast of Nuevo Casas Grandes.

**Community Benefits:** Reduced demand for traditional fossil-fuel based energy generation resulting in less greenhouse gas emissions, thus improving air quality, while providing a safe and reliable energy alternative. Specifically, the project is expected to help prevent the emission of an estimated 161,881 metric tons/year of carbon dioxide (CO₂) and 565 metric tons/year of nitrogen oxides (NOₓ), as well as other pollutants.

**NADB Participation:** The Bank is a direct lender to the project company, Fisterra Energy Santa María 1, S.A.P.I. de C.V., which has signed power purchase agreement with a subsidiary of the Mexican federal electricity utility, Comisión Federal de Electricidad (CFE). On June 22, 2017, the Bank approved a market-rate loan for up to US$55.50 million for construction of the project. A loan agreement for US$30.0 million was contracted on September 18, 2017, and disbursements began the same month. With project construction almost complete, NADB cancelled the unsigned portion of its loan commitment for this project, which totaled US$25.50 million, reducing its participation in the project to US$30.0 million.

**Implementation Status:** Construction of the solar park began in September 2017 and was substantially complete in April 2019. Commercial operations began on February 28, 2019.

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### Güémez, Tamaulipas, Mexico
#### Vicente Guerrero Wind Energy Project

**Type:** Renewable energy  
**Total Cost:** Reserved  
**Total NADB Funding:** US $30,000,000  
**Certification Date:** 2 / 8 / 17  
**Residents to Benefit:** 224,287

**Description:** Construction of a 117.3-MW wind farm with 34 wind turbines, as well as a substation and transmission line, in a rural area located east of Ciudad Victoria.

**Community Benefits:** Reduced demand for traditional fossil-fuel based energy generation resulting in less greenhouse gas emissions, thus improving air quality, while providing a safe and reliable energy alternative. Specifically, the project is expected to help prevent the emission of an estimated 177,716 metric tons/year of carbon dioxide (CO₂) and 620 metric tons/year of nitrogen oxides (NOₓ), as well as other pollutants.

**NADB Participation:** The Bank is a direct lender to the project company, Compañía Eólica Vicente Guerrero, S.A. de C.V., which has signed power purchase agreement with the retailer Grupo Soriana under a self-supply scheme. On February 8, 2017, the Bank approved a market-rate loan for up to US$30 million for construction of the project. The corresponding loan agreement was contracted in Mexican pesos on September 14, 2017. The loan was fully disbursed on January 22, 2018.

**Implementation Status:** Construction of the wind farm began in December 2017 and was substantially complete in March 31, 2019. Commercial operations began on April 1, 2019.
<table>
<thead>
<tr>
<th>PROJECT</th>
<th>DESCRIPTION</th>
<th>NADB PARTICIPATION</th>
<th>IMPLEMENTATION STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gustavo Diaz Ordaz, Tamaulipas, Mexico</strong>&lt;br&gt;Wastewater Collection and Treatment Project</td>
<td>Expansion and rehabilitation of the wastewater collection and treatment system, including construction of a wastewater treatment plant (WWTP) and decommissioning of the existing lagoon treatment system and residential on-site wastewater disposal systems.</td>
<td>The Bank is a source of grant funds through the BEIF, to complement federal, state and local funding. On May 29, 2019, EPA approved the Bank’s recommendation to provide up to US$4.51 million in BEIF funding for construction and construction management services. The corresponding grant agreement was signed on December 12, 2019.</td>
<td>Work to expand the wastewater system with Mexican funds began in 2017 and is ongoing. Bidding for Bank-funded components, including the construction of the WWTP, a force main, a lift station and residential hookups, is expected to begin in the first quarter of 2020.</td>
</tr>
<tr>
<td><strong>Type:</strong> Wastewater  <strong>Total Cost:</strong> US $8,550,000  <strong>Total NADB Funding:</strong> US $4,510,000  <strong>Certification Date:</strong> 5 / 30 / 19  <strong>Residents to Benefit:</strong> 12,354</td>
<td><strong>Community Benefits</strong>&lt;br&gt;System improvements and provision of first-time wastewater collection services to 2,644 homes will reduce the potential for groundwater contamination and the risk of waterborne diseases. Specifically, the project will eliminate an estimated 570,672 gallons per day of wastewater.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Hermosillo, Sonora, Mexico</strong>&lt;br&gt;Orejana Solar Park Project</td>
<td>Construction of a 125-MW solar park using photovoltaic modules mounted on a single-axis tracker system in a rural area west of the city of Hermosillo.</td>
<td>The Bank is a direct lender to the project company, <em>Fisterra Energy Orejana S.R.L. de C.V.</em>, which has signed power purchase agreement with a subsidiary of the Mexican federal electricity utility, <em>Comision Federal de Electricidad</em> (CFE). On July 7, 2017, the Bank approved a market-rate loan for up to US$50.00 million for construction of the project. A loan agreement for US$26.75 million was contracted on September 18, 2017, and disbursements began the same month. With project construction almost complete, NADB cancelled the unsigned portion of its loan commitment for this project, which totaled US$23.25 million, reducing its participation in the project to US$26.75 million.</td>
<td>Construction of the solar park began in September 2017 and was substantially complete in April 2019. Commercial operations began on April 16, 2019.</td>
</tr>
<tr>
<td><strong>Type:</strong> Renewable energy  <strong>Total Cost:</strong> Reserved  <strong>Total NADB Funding:</strong> US $26,750,000  <strong>Certification Date:</strong> 7 / 7 / 17  <strong>Residents to Benefit:</strong> 175,417</td>
<td><strong>Community Benefits</strong>&lt;br&gt;Reduced demand for traditional fossil-fuel based energy generation resulting in less greenhouse gas emissions, thus improving air quality, while providing a safe and reliable energy alternative. Specifically, the project is expected to help prevent the emission of an estimated 163,808 metric tons/year of carbon dioxide (CO₂) and 571 metric tons/year of nitrogen oxides (NOx), as well as other pollutants.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Hidalgo County, Texas, USA

**North Alamo Regional Wastewater Collection and Treatment Project**

<table>
<thead>
<tr>
<th>Type</th>
<th>Wastewater</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Cost</td>
<td>US $11,778,174</td>
</tr>
<tr>
<td>Total NADB Funding</td>
<td>US $1,585,783</td>
</tr>
<tr>
<td>Certification Date</td>
<td>6/16/16</td>
</tr>
<tr>
<td>Residents to Benefit</td>
<td>1,616</td>
</tr>
</tbody>
</table>

**PROJECT DESCRIPTION**

Construction of a 0.50-mgd regional wastewater treatment plant (WWTP) and wastewater collection systems in six colonias: Alberta Acres, El Charro #2, Isaac’s Subdivision, L.J. #1, Muniz Subdivision and Tower Road Estates, including installation of residential connections and decommissioning of on-site wastewater disposal systems.

**Community Benefits**

First-time access to wastewater collection and treatment services for 400 homes, reducing the risk of environmental and health hazards associated with raw sewage spills and discharges from inadequate on-site disposal systems. Approximately 0.17 mgd of untreated or inadequately treated wastewater will be collected for treatment.

**NADB PARTICIPATION**

The Bank is a source of grant funds through the BEIF, to complement grant and loan funding from the Texas Water Development Board (TWDB) and the utility’s own resources. On May 2, 2016, EPA approved the Bank’s recommendation to provide US$1.90 million in BEIF funding for construction of the project. The corresponding grant agreement was signed with the North Alamo Water Supply Corporation (NAWSC) on July 22, 2016, and disbursements began in March 2017. The final disbursement occurred on February 14, 2019, leaving an unused balance of US$310,673. On December 31, 2019, the unused funds were deobligated, reducing the BEIF grant for this project to US$1.59 million.

**IMPLEMENTATION STATUS**

Construction of four lift stations and installation of sewer lines in the Isacs, L. J. #1 and Muniz subdivisions have been completed with state funds. Construction of the regional WWTP funded by the State was completed in May 2018 and is in operation. Construction of a lift station and sewer lines in the El Charro #2 subdivision funded by the Bank began in March 2017 and was completed in October 2018. The installation of sewer connections funded by the State began in September 2018 and was finished in June 2019, thus completing the entire certified project.

---

### Loma Blanca, Chihuahua, Mexico

**Wastewater Collection Project**

<table>
<thead>
<tr>
<th>Type</th>
<th>Wastewater</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Cost</td>
<td>US $1,740,000</td>
</tr>
<tr>
<td>Total NADB Funding</td>
<td>US $630,000</td>
</tr>
<tr>
<td>Certification Date</td>
<td>11/9/17</td>
</tr>
<tr>
<td>Residents to Benefit</td>
<td>4,993</td>
</tr>
</tbody>
</table>

**PROJECT DESCRIPTION**

Construction of two collectors and installation of a sewer system, including residential connections and the decommissioning of existing on-site wastewater disposal systems.

**Community Benefits**

Provision of first-time wastewater collection and treatment services to 100% of the community, which is expected to collect approximately 205,440 gallons per day of wastewater and thus reduce the health risks associated with uncontrolled wastewater discharges and inadequate on-site wastewater disposal systems.

**NADB PARTICIPATION**

The Bank is a source of grant funds through the BEIF, to complement state and federal funding. On November 7, 2017, EPA approved the Bank’s recommendation to provide up to US$630,000 in BEIF funding for construction and construction management services. On November 12, 2018, the Bank signed a grant agreement with the project sponsor for US$512,000 for construction of the project. On June 3, 2019, the Bank signed a construction management agreement for US$69,000, for a total of US$581,000 in BEIF funds contracted. The initial BEIF disbursement occurred in August 2019.

**IMPLEMENTATION STATUS**

Construction on the sewer system began with Mexican funds in 2013. Both collectors and 92% of the wastewater collection system have been completed to date. A contract for construction of residential sewer connections and the remaining sewer system infrastructure to be funded by the Bank was awarded in August 2019. Construction began in September and is approximately 25% complete.
### Madera, Chihuahua, Mexico

**Equipment for Sanitary Landfill Operations**

<table>
<thead>
<tr>
<th>Type</th>
<th>Solid waste</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Cost</td>
<td>US $292,000</td>
</tr>
<tr>
<td>Total NADB Funding</td>
<td>US $300,000</td>
</tr>
<tr>
<td>Certification Date</td>
<td>6 / 16 / 16</td>
</tr>
<tr>
<td>Residents to Benefit</td>
<td>17,050</td>
</tr>
</tbody>
</table>

**Description**

Acquisition of new equipment for landfill operations, including a mini-loader skid steer, water truck, 3.5 or 4-ton truck with hydraulic dump, vehicle scale, portable generator, portable welder and pressure washer.

**Community Benefits**

Improved landfill operations for the proper disposal of up to 17 metric tons of solid waste per day in compliance with applicable laws and regulations, reducing risks for soil and groundwater contamination, as well as the transmission of vector-related diseases.

### Marathon, Texas, USA

**Wastewater Infrastructure Project**

<table>
<thead>
<tr>
<th>Type</th>
<th>Wastewater</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Cost</td>
<td>US $2,201,500</td>
</tr>
<tr>
<td>Total NADB Funding</td>
<td>US $2,201,500</td>
</tr>
<tr>
<td>Certification Date</td>
<td>11 / 9 / 17</td>
</tr>
<tr>
<td>Residents to Benefit</td>
<td>546</td>
</tr>
</tbody>
</table>

**Description**

Replacement of a portion of the collector main that conveys wastewater to the treatment plant, as well as decommissioning of a lift station and installation of nine sewer connections.

**Community Benefits**

Prevention of line breaks, wastewater spills and sewage backups, reducing the risk of water pollution and waterborne diseases. Provision of first-time wastewater collection and treatment services to nine homes, which will collect an estimated 2,000 gpd of wastewater.

### Maverick County, Texas, USA

**Landfill Expansion Project**

<table>
<thead>
<tr>
<th>Type</th>
<th>Solid Waste</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Cost</td>
<td>US $3,446,000</td>
</tr>
<tr>
<td>Total NADB Funding</td>
<td>US $2,986,683</td>
</tr>
<tr>
<td>Certification Date</td>
<td>5 / 30 / 19</td>
</tr>
<tr>
<td>Residents to Benefit</td>
<td>54,258</td>
</tr>
</tbody>
</table>

**Description**

Expansion of the El Indio Municipal Solid Waste Facility by constructing a third cell.

**Community Benefits**

Expanding the landfill will allow the County to continue to serve its customers and dispose of waste in compliance with state and federal regulations, thus minimizing the potential for illegal dumping and contamination of air, soil and underground water resources.

### NADB Participation

The Bank is a source of grant funds through the CAP, which complements the landfill construction project funded jointly by the Municipality and the Mexican federal government. On June 16, 2016, the Bank approved a CAP grant for up to US$300,000 to cover the equipment costs, including possible fluctuations in the exchange rate. The corresponding grant agreement was signed on December 12, 2016. The first disbursement occurred in April 2018.

**Community Benefits**

Improved landfill operations for the proper disposal of up to 17 metric tons of solid waste per day in compliance with applicable laws and regulations, reducing risks for soil and groundwater contamination, as well as the transmission of vector-related diseases.

### Implementation Status

Bidding to procure the landfill equipment began in August 2017. A contract for the purchase of a water tank truck was awarded in October 2017, and the truck was delivered in April 2018. Contracts for the purchase of a flatbed truck and a mini-loader skid steer were awarded in July 2018, and the equipment was delivered in October 2019.

Training will be provided in the proper operation and maintenance of the equipment during the first quarter of 2020. Additionally, the two-year maintenance service package included with the equipment purchase is being funded and monitored by the Bank.

Bidding for construction of the collector main began in June 2018; however, the bids received exceeded available funding. Working with the lowest evaluated responsive bidder, the sponsor has made slight modifications to the scope of work to reduce costs and also obtained additional BEIF funds from EPA. Construction began in November 2018 and is approximately 85% complete.

The Bank is a source of grant funds through the CAP, on November 7, 2018, EPA approved the Bank's recommendation to provide US$1.55 million in BEIF construction assistance for the project. The corresponding grant agreement was signed on May 21, 2018. The initial disbursement occurred in January 2019. On October 3, 2019, EPA approved an additional US$650,000 in BEIF funds to cover increased costs based on actual procurement results, bringing total BEIF participation in this project to US$2.20 million. The amended grant agreement was signed on November 18, 2019.

The Bank is participating as a direct lender and is also a source of grant funds through the CAP, to complement funding from the County. On May 30, 2019, the Bank approved a market-rate loan for up to US$2.92 million, along with a CAP grant for up to US$150,000, for construction of the project. On June 17, 2019, the Bank and the County signed a loan agreement in the form of a tax note for US$2.85 million. On June 19, 2019, a US$66,683 grant agreement was signed and the remaining US$83,317 in unused CAP funds was de-obligated. On July 11, 2019, the loan and CAP grant were fully disbursed.

Construction of the third landfill cell began in July 2019 and was completed in December 2019.
### Mesilla, New Mexico, USA

**Water System Improvements Project**

<table>
<thead>
<tr>
<th>Type</th>
<th>Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Cost</td>
<td>US $761,646</td>
</tr>
<tr>
<td>Total NADB Funding</td>
<td>US $422,226</td>
</tr>
<tr>
<td>Certification Date</td>
<td>11 / 23 / 15</td>
</tr>
<tr>
<td>Residents to Benefit</td>
<td>1,450</td>
</tr>
</tbody>
</table>

Construction of three new waterlines to provide network looping in the water distribution system and connect 12 homes.

**Community Benefits**

Provision of first-time water service to 12 households, and improved system operations and reliability by preventing stagnate conditions that negatively impact water quality, reducing the risks associated with waterborne diseases.

The Bank is a source of grant funds through the BEIF, to complement a grant from the New Mexico Environmental Department (NMED). On August 14, 2015, EPA approved the Bank's recommendation to provide US$698,115 in BEIF construction assistance for the project. The corresponding grant agreement was signed on February 29, 2016. Disbursements began in April 2017. The final disbursement occurred on August 11, 2017, leaving an unused balance of US$275,889. On December 31, 2019, the unused funds were deobligated, reducing the BEIF grant for this project to US$422,226.

Construction of the waterlines began in February 2017 and was completed in April 2017.

### Mexicali, Baja California, Mexico

**Rehabilitation of the Wastewater Collection System in Colonias Loma Linda and Esperanza**

<table>
<thead>
<tr>
<th>Type</th>
<th>Wastewater</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Cost</td>
<td>US $1,364,240</td>
</tr>
<tr>
<td>Total NADB Funding</td>
<td>US $586,726</td>
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<tr>
<td>Certification Date</td>
<td>12 / 3 / 14</td>
</tr>
<tr>
<td>Residents to Benefit</td>
<td>2,230</td>
</tr>
</tbody>
</table>

Replacement of deteriorated sanitary sewer lines in the Loma Linda and Esperanza subdivisions.

**Community Benefits**

Reduced risk of environmental and health hazards associated with raw sewage spills and discharges, thus providing a safer and healthier environment for local residents, as well as preventing the potential contamination of shared water bodies, such as the New River.

The Bank is a source of grant funds through the BEIF, to complement federal grants. On October 23, 2014, EPA approved the Bank's recommendation to provide US$593,990 in BEIF funds for the construction of the project. The corresponding grant agreement was signed on April 7, 2015, and disbursements began in September 2015. The final disbursement occurred on August 22, 2018, leaving an unused balance of US$7,264. On December 31, 2019, the unused funds were deobligated, reducing the BEIF grant for this project to US$586,726.

Construction of the sewer lines in the Esperanza subdivision financed with Mexican funds began in August 2015 and was completed in November 2015. Construction of the sewer lines in the Loma Linda subdivision funded by the Bank began in October 2015 and was completed in January 2016.

Since work on the two sewer systems was completed under budget, EPA agreed to use the remaining funds to purchase mobile pumping equipment to prevent untreated sewage spills into the New River. Three of the five mobile pumping units were delivered in the first quarter of 2018. The remaining two pumping units were delivered in May 2018.
**Mexican Border Region**

**Border-wide Public Transportation Improvement Program in Mexico (Pilot)**

<table>
<thead>
<tr>
<th>Type</th>
<th>Public transportation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Cost</td>
<td>US $13,546,264</td>
</tr>
<tr>
<td>Total NADB Funding</td>
<td>US $12,068,656</td>
</tr>
<tr>
<td>Certification Date</td>
<td>6 / 24 / 14</td>
</tr>
<tr>
<td>Residents to Benefit</td>
<td></td>
</tr>
</tbody>
</table>

**PROJECT DESCRIPTION**

Financing program to support the purchase or lease of low-emission buses manufactured by DINA Camiones, S.A. de C.V. (Dina) within the 300-km border region in Mexico, in which the Bank operates.

**Community Benefits**

Use of new diesel buses that at a minimum comply with EPA 2004 standards will lower nitrogen oxides (NOx) and hydrocarbons (HC) emissions by approx. 50% and will achieve nearly 24% lower carbon dioxide (CO2) emissions. The reduction in criteria pollutant emissions is even higher for compressed natural gas-fueled vehicles that comply with EPA 2013 emission standards.

**NADB PARTICIPATION**

The Bank is participating as a direct lender to Mercader Financial, S.A., SOFOM, E.R., a captive finance company and affiliate of Dina. On June 24, 2014, the Bank approved a market-rate loan in the form of a revolving line of credit for up to $120 million pesos to cover approximately 80% of the financing costs. The corresponding loan agreement was signed on September 30, 2014, and the first disbursement occurred in October 2015. The initial $120.0 million pesos were fully disbursed as of April 2016, for the equivalent of US$7.04 million. However, due to the revolving nature of the line of credit, Mercader can make monthly payments and have those funds available for draw down again when certain conditions are met during the disbursement period, which ends in October 2025. To date, a total of US$10.91 million has been disbursed through the credit line.

**IMPLEMENTATION STATUS**

During the last quarter of 2015, a total of 33 buses were financed through the program by two public transportation companies. A company in Hermosillo, Sonora obtained 30 diesel buses to replace part of its existing fleet, while another company in Tijuana, Baja California, purchased three diesel buses to expand its fleet. In April 2016, a company in Ciudad Juarez, Chihuahua obtained 25 buses fueled by compressed natural gas (CNG) to replace part of its existing fleet. In November 2017, two companies in Guadalupe, Nuevo Leon obtained 10 CNG buses and 8 diesel buses. In August 2018, a total of 21 diesel buses were financed by a public transportation company in Guadalupe, N.L.

In March 2019, a total of 10 diesel buses were financed by two public transportation companies in two municipalities in the metropolitan area of Monterrey, N.L. To date, a total of 107 buses have been financed through the program.
### PROJECT

**Mexican Border Region**

**Border-wide Program for the Purchase of Low-Emission Vehicles in Mexico**

- **Type:** Public transportation
- **Total Cost:** US $76,017,161
- **Total NADB Funding:** US $63,680,525
- **Certification Date:** 9 / 13 / 16
- **Residents to Benefit:**

#### Description
Finite program to support the purchase or lease of low-emission buses manufactured by DINA Camiones, S.A. de C.V. within the 300-km border region in Mexico, in which the Bank operates.

#### Community Benefits
Improved air quality as the new vehicles produce less greenhouse gases than older models. Under the amended loan agreement, diesel vehicles shall comply with the emission limits established under Mexican Standard NOM-044-SEMARNAT-2017, specifically those identified as 1AA (equivalent to EPA 2007 standards) for buses financed through the end of 2019 and 1B (equivalent to EPA 2010 standards) for buses financed beginning in January 2020; and CNG-fueled vehicles shall comply with emission limits equivalent to EPA 2016 standards. Diesel vehicles that comply with the EPA 2007 emission limits can reduce nitrogen oxides (NOx) by 70%, hydrocarbons (HC) by 70% and particulate matter (PM_{2.5}) by 77%, compared to EPA-1998 diesel technologies.

### NADB PARTICIPATION

The Bank is participating as a direct lender to Mercader Financial, S.A., SOFOM, E.R., a captive finance company and affiliate of Dina. On September 15, 2016, the Bank approved a market-rate loan in the form of a revolving line of credit for up to $500 million pesos to cover approximately 80% of the cost of new vehicles. The corresponding loan agreement was signed on September 22, 2016, and the first disbursement occurred the same month. The initial $500.0 million pesos were fully disbursed as of November 2016, for the equivalent of US$25.80 million. On November 5, 2018, the Bank approved a loan increase for $380 million pesos (estimated at US$20.13 million). An amended loan agreement was signed on November 15, 2018. Due to the revolving nature of the line of credit, Mercader can make monthly payments and have those funds available for draw down again when certain conditions are met during the disbursement period, which ends in November 2028. To date, a total of US$58.78 million has been disbursed through the credit line.

### IMPLEMENTATION STATUS

In 2016, a total of 285 buses—178 diesel and 107 compressed natural gas (CNG)—were financed by 12 public transportation companies to replace or expand their existing fleets in Ciudad Juarez, CHIH; Hermosillo, SON; Tijuana, B.C.; and five municipalities in the metropolitan area of Monterrey, N.L. In 2017, a total of 41 buses (39 diesel and 2 CNG) were financed by four public transportation companies in Ciudad Juarez, CHIH and four municipalities in the metropolitan area of Monterrey, N.L. In 2018, a total of 142 buses (59 diesel and 83 CNG) were financed by six public transportation companies in five municipalities in the metropolitan area of Monterrey, N.L.

During the 1st quarter of 2019, a total of 128 buses (58 diesel and 70 CNG) buses were financed by five public transportation companies in four municipalities in the metropolitan area of Monterrey, N.L. In May 2019, a company in Apodaca, N.L. obtained 19 diesel buses to replace part of its existing fleet. To date, a total of 615 buses have been financed through the program.

### Mina, Nuevo Leon, Mexico

**El Mezquite Wind Energy Project**

- **Type:** Renewable energy
- **Total Cost:** Reserved
- **Total NADB Funding:** US $74,100,000
- **Certification Date:** 6 / 27 / 17
- **Residents to Benefit:** 432,965

#### Description
Construction of a 250-MW wind farm with 100 wind turbines, as well as two substations and transmission line, on privately-owned rural land located about 37 miles northwest of the urban area of Monterrey.

#### Community Benefits
Reduced demand for traditional fossil-fuel based energy generation resulting in less greenhouse gas emissions, thus improving air quality, while providing a safe and reliable energy alternative. Specifically, the project is expected to help prevent the emission of an estimated 428,787 metric tons/year of carbon dioxide (CO_{2}) and 1,175 metric tons/year of nitrogen oxides (NOx), as well as other pollutants.

### NADB PARTICIPATION

The Bank is a direct lender to the project company, *Parque Eólico El Mezquite, S.A.P.I. de C.V.*, which has signed power purchase agreements with a subsidiary of the Mexican federal electricity utility, *Comisión Federal de Electricidad* (CFE). On June 27, 2017, the Bank approved a market-rate loan for up to US$105.00 million for construction of the project. A loan agreement for US$74.10 million was contracted on September 1, 2017, and the initial disbursement occurred in October of the same year. With project construction almost complete, NADB cancelled the unsigned portion of its loan commitment for this project, which totaled US$30.90 million, reducing its participation in the project to US$74.10 million.

### IMPLEMENTATION STATUS

Construction of the wind farm began in October 2017 and was substantially complete in June 2019. Commercial operations began on June 28, 2019.
### Nogales, Arizona, USA

**Peña Blanca Wastewater System Improvements at Potrero Creek**

<table>
<thead>
<tr>
<th>Type</th>
<th>Wastewater</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Cost</td>
<td>US $500,000</td>
</tr>
<tr>
<td>Total NADB Funding</td>
<td>US $450,000</td>
</tr>
<tr>
<td>Certification Date</td>
<td>11 / 8 / 18</td>
</tr>
<tr>
<td>Residents to Benefit</td>
<td>1,262</td>
</tr>
</tbody>
</table>

**DESCRIPTION**
Replacement of a section of a wastewater force main below Potrero Creek and pump station improvements.

**Community Benefits**
Elimination of the risk of line breaks, preventing approximately 84,000 gallons per day of untreated wastewater discharges to Potrero Creek. Better management of pumping equipment and energy efficiency, reducing operation and maintenance costs.

**NADB PARTICIPATION**
The Bank is a source of grant funds through the CAP, to complement funding from the City. On November 8, 2018, the Bank approved a CAP grant for up to US$450,000 for project construction. The corresponding grant agreement was signed on July 10, 2019.

**IMPLEMENTATION STATUS**
Bidding for construction is expected to begin in the first quarter of 2020.

### Nogales, Sonora, Mexico

**Expansion of the Water and Wastewater Systems to the Southwest Area of Nogales, Sonora**

<table>
<thead>
<tr>
<th>Type</th>
<th>Water / wastewater</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Cost</td>
<td>US $10,483,888</td>
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<tr>
<td>Total NADB Funding</td>
<td>US $5,259,444</td>
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<tr>
<td>Certification Date</td>
<td>11 / 17 / 16</td>
</tr>
<tr>
<td>Residents to Benefit</td>
<td>16,701</td>
</tr>
</tbody>
</table>

**DESCRIPTION**
Expansion of the water distribution and wastewater collection systems to unserved areas of the Flores Magón, Las Torres, Luis D. Colosio, El Rastro, Las Primaveras, and Jardines de la Montaña subdivisions, including installation of residential connections.

**Community Benefits**
Provision of first-time wastewater collection and treatment services, reducing the potential for groundwater and surface water contamination by eliminating the use of cesspools and direct discharges of untreated sewage into yards and streets, thus providing a cleaner, healthier environment for local residents. Specifically, an estimated 0.93 million gallons a day of wastewater will be collected and treated. Provision of drinking water service for households currently not connected to the distribution system.

**NADB PARTICIPATION**
The Bank is a source of grant funds through the BEIF to complement federal, state and municipal funding. On November 9, 2016, EPA approved the Bank’s recommendation to provide US$5.26 million in BEIF funds for the construction of the project, and the corresponding grant agreement was signed on July 10, 2017. The initial disbursement was made in February 2018.

**IMPLEMENTATION STATUS**
The first phase of wastewater lines was completed with Mexican funding in December 2016. Construction of the Collector Tecnológico funded by the Bank began in February 2018 and was completed in August of the same year. Additional wastewater lines (phases 2 and 3) financed with Mexican funds are under construction. Construction of the remaining Phase 3 wastewater lines funded by the Bank began in November 2019 and will take approximately five months to complete. Bidding for Phase 4 wastewater lines and residential connections is underway.
<table>
<thead>
<tr>
<th>PROJECT</th>
<th>DESCRIPTION</th>
<th>NADB PARTICIPATION</th>
<th>IMPLEMENTATION STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Nuevo Casas Grandes, Chihuahua, Mexico</strong>&lt;br&gt;Equipment for Sanitary Landfill Operations</td>
<td>Acquisition of new equipment for landfill operations, including a bulldozer, backhoe, dump truck, water tank truck, 3.5 or 4-ton truck with hydraulic dump, vehicle scale, portable generator, portable welder and pressure washer. <strong>Community Benefits</strong>&lt;br&gt;Improved landfill operations for the proper disposal of up to 55 metric tons of solid waste per day in compliance with applicable laws and regulations, reducing risks for soil and groundwater contamination, as well as the transmission of vector-related diseases.</td>
<td>The Bank is a source of grant funds through the Community Assistance Program (CAP), which complements the landfill construction project funded jointly by the Municipality and the Mexican federal government. On June 16, 2016, the Bank approved a CAP grant for up to US$500,000 to cover the equipment costs. The corresponding grant agreement was signed on December 12, 2016. Disbursements began in December 2017.</td>
<td>Bidding to procure the landfill equipment began in June 2017, but no fully responsive bids were received. A new bid process was carried out in September 2017, and contracts for the purchase of a dump truck, water tank truck, bulldozer, backhoe loader and 4-ton truck were awarded in November 2017. The equipment was delivered in February 2018, and training was provided to the operator of the solid waste landfill. The remaining CAP funds are being applied towards the two-year maintenance service package included with the equipment purchase.</td>
</tr>
<tr>
<td><strong>Puerto Libertad Solar Park Project</strong></td>
<td>Construction of a 317.5-MW solar park, using photovoltaic modules mounted on a single-axis tracker system in a rural area of the Sonora Desert. <strong>Community Benefits</strong>&lt;br&gt;Reduced demand for traditional fossil-fuel based energy generation resulting in less greenhouse gas emissions, thus improving air quality, while providing a safe and reliable energy alternative. Specifically, the project is expected to help prevent the emission of an estimated 440,390 metric tons/year of carbon dioxide equivalent (CO2e).</td>
<td>The Bank is a direct lender to the two project companies, AT Solar V, S. de R.L. de C.V., and Tuto Energy II, S.A.P.I. de C.V., which have signed power purchase agreements with two subsidiaries of the Mexican federal electricity utility, Comision Federal de Electricidad (CFE), as well as with a private off-taker. On March 8, 2018, the Bank approved a market-rate loan for up to US$75.00 million for construction of the project. A loan agreement for US$65.99 million was contracted on July 12, 2018, and disbursements began in August of the same year. With project construction almost complete, NADB cancelled the unsigned portion of its loan commitment for this project, which totaled US$9.01 million, reducing its participation in the project to US$65.99 million. The final loan disbursement was made on December 2, 2019.</td>
<td>Construction of the solar park began in January 2018 and was substantially complete in June 2019. Commercial operations began on June 5, 2019.</td>
</tr>
<tr>
<td>PROJECT DESCRIPTION</td>
<td>NADB PARTICIPATION</td>
<td>IMPLEMENTATION STATUS</td>
<td></td>
</tr>
<tr>
<td>---------------------</td>
<td>-------------------</td>
<td>-----------------------</td>
<td></td>
</tr>
</tbody>
</table>
| Playas de Rosarito, Baja California, Mexico  
Basic Urban Infrastructure Project | Paving of approx. 34,518 m² of dirt roads, repaving of approx. 39,676 m² of roads and other roadway improvements, replacement of aging water and wastewater infrastructure, replacement of street lighting equipment and acquisition of maintenance equipment.  
Community Benefits  
Paving works will help improve air quality by reducing vehicular dust caused by traffic on unpaved roads and relieving traffic congestion at peak hours. Specifically, increased paving coverage is expected to prevent the emission of 32.8 metric tons/year of PM$_{10}$, while better urban mobility will help reduce vehicle emissions, including an estimated 77.43 kg/year of volatile organic compounds, 491 kg/year of carbon monoxide, and 157.54 kg/year of nitrogen oxides. The project will also provide safer roadways for motorists and pedestrians, as well as allow faster access for emergency services. The replacement of street lamps will help reduce energy consumption by approximately 9.6% a year, which will help prevent the emission of an estimated 33 metric tons/year of carbon dioxide (CO$_2$). Additionally, the project will contribute to the provision of adequate water and wastewater services.  
The Bank is a direct lender to complement federal funding in support of the new infrastructure and equipment (est. cost of US$5.11 million), as well as to refinance an existing loan (est. cost of US$12.0 million) to obtain a longer term and better financing conditions, allowing the Municipality to apply part of the savings toward investments in additional infrastructure needs. On May 14, 2015, the Bank approved a peso-denominated, market-rate loan for an estimated US$16.25 million to refinance the existing loan and finance up to 80% of the cost of the new infrastructure works and equipment. On June 9, 2015, a loan agreement for up to US$16.10 million was contracted with the Municipality. On September 1, 2015, the loan was fully disbursed for a total of US$13.65 million: US$9.98 to refinance the existing loan and US$3.67 million to cover part of the cost of the new infrastructure works and equipment. | The Municipality has already paved approximately 23,300 m² of roadways. A contract funded by NADB for asphalt street paving (approx. 32,600 m²), including replacement of sewer lines, was completed in June 2016. A second contract funded by NADB for urban revitalization, including concrete street paving (approx. 2,163 m²), sidewalks, public lighting, green areas and replacement of water and sewer lines, was completed in August 2016. A third paving contract (7,912 m²) funded by NADB was completed in September 2017.  
The Municipality has decided to redirect the street lighting funds to make improvements to main street infrastructure aimed at alleviating traffic congestion during peak hours. A request for approval of this change has been sent to the State Congress. |
### Región Cinco Manantiales, Coahuila, Mexico

**Equipment for Sanitary Landfill Operations and Waste Collection**

<table>
<thead>
<tr>
<th>Type</th>
<th>Solid waste</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total Cost</strong></td>
<td>US $551,950</td>
</tr>
<tr>
<td><strong>Total NADB Funding</strong></td>
<td>US $500,000</td>
</tr>
<tr>
<td><strong>Certification Date</strong></td>
<td>6 / 16 / 16</td>
</tr>
<tr>
<td><strong>Residents to Benefit</strong></td>
<td>77,800</td>
</tr>
</tbody>
</table>

#### Description

Acquisition of a backhoe and water tank truck for landfill operations, as well as five garbage collection trucks for the municipalities of Allende, Morelos, Nava, Villa Unión and Zaragoza.

**Community Benefits**

Improved landfill operations for the proper disposal of up to 75 metric tons of solid waste per day in compliance with applicable laws and regulations, reducing risks for soil and groundwater contamination, as well as the transmission of vector-related diseases. Improved collection services for an estimated 21,600 households.

**NADB Participation**

The Bank is a source of grant funds through the Community Assistance Program (CAP), to complement funding provided by the Asociación Pro-limpieza de los Cinco Manantiales de Coahuila, A.C., the non-profit organization that operates the regional sanitary landfill. On June 16, 2016, the Bank approved a CAP grant for up to US$500,000 to cover up to 90% of the equipment costs. The corresponding grant agreement was signed on February 2, 2017, and disbursements began in December of the same year.

**Implementation Status**

Bidding to procure landfill and waste collection equipment began in August 2017. A contract for the purchase of two garbage collection trucks for the communities of Morelos and Villa Union was awarded in September 2017, and the two trucks were delivered in February 2018. A contract for the purchase of three garbage collection trucks was awarded in June 2018. Two trucks were delivered to the project sponsor in July, and the last truck was delivered in August 2018. In March 2019, operators from all five municipalities received training in the proper operation and maintenance of the equipment.

The equipment was purchased with a two-year service agreement, that is being funded jointly by the sponsor and the Bank. Having ascertained the final cost of the five garbage trucks and as a result of savings deriving from foreign exchange fluctuations, the sponsor is evaluating whether there are sufficient funds to purchase a water tank truck.

### Reynosa, Tamaulipas, Mexico

**Wastewater Collection and Treatment Project**

<table>
<thead>
<tr>
<th>Type</th>
<th>Wastewater</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total Cost</strong></td>
<td>US $15,658,735</td>
</tr>
<tr>
<td><strong>Total NADB Funding</strong></td>
<td>US $7,080,512</td>
</tr>
<tr>
<td><strong>Certification Date</strong></td>
<td>5 / 6 / 16</td>
</tr>
<tr>
<td><strong>Residents to Benefit</strong></td>
<td>266,853</td>
</tr>
</tbody>
</table>

#### Description

Expansion of the Wastewater Treatment Plant No. 2 (WWTP 2), to increase capacity from 5.7 mgd to 17.1 mgd, as well as construction of Lift Station No. 278, rehabilitation of Lift Station No. 1 and decommissioning of three lift stations.

**Community Benefits**

Expansion of wastewater treatment coverage, preventing untreated sewage discharges from entering the Rio Grande River, which will reduce environmental pollution and the risk of waterborne diseases, thus providing a safer and healthier source of water for the city, as well as for downstream users. Specifically, an estimated 9.0 mgd of wastewater will be collected and treated.

**NADB Participation**

The Bank is a source of grant funds through the BEIF, to complement federal funding provided through the Mexican federal water agency, CONAGUA. On March 23, 2016, EPA approved the Bank's recommendation to provide US$7.08 million in BEIF funding for the construction of this project. The corresponding grant agreement was signed on June 16, 2016. The initial disbursement occurred in May 2017.

**Implementation Status**

Construction to expand WWTP 2 began in 2014 with Mexican funds and is expected to be completed by June 2020. Construction of Lift Stations 1 and 278 funded by the Bank began in May 2017. Work on Lift Station 1 is approximately 96% complete. Construction of Lift Station 278 was temporarily suspended in order to replace the contractor. Work was reinitiated in February 2019 and is approximately 83% complete.
### Reynosa, Tamaulipas, Mexico

**Delaro Wind Energy Project**

<table>
<thead>
<tr>
<th>TYPE</th>
<th>Renewable energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Cost:</td>
<td>Reserved</td>
</tr>
<tr>
<td>Total NADB Funding:</td>
<td>US $50,000,000</td>
</tr>
<tr>
<td>Certification Date:</td>
<td>11/14/19</td>
</tr>
<tr>
<td>Residents to Benefit:</td>
<td>226,219</td>
</tr>
</tbody>
</table>

**PROJECT DESCRIPTION**

Construction of a 117-MW wind farm with 27 wind turbines, as well as a substation and transmission line, on privately-owned rural land located about 25 miles southwest of the city.

**Community Benefits**

Reduced demand for traditional fossil-fuel based energy generation resulting in less greenhouse gas emissions, thus improving air quality, while providing a safe and reliable energy alternative. Specifically, the project is expected to help prevent the emission of an estimated 195,326 metric tons/year of carbon dioxide (CO$_2$) and 615 metric tons of sulfur dioxide (SO$_2$), as well as other pollutants.

**NADB PARTICIPATION**

The Bank is a direct lender to the project company, Delaro, S.A.P.I. de C.V., which has signed power purchase agreements with several private firms. On November 14, 2019, the Bank approved a market-rate loan for up to US$50.00 million for construction of the project. A loan agreement for US$32.00 million was contracted on December 16, 2019.

**IMPLEMENTATION STATUS**

Construction of the wind farm is expected to begin during the first quarter of 2020.

### San Luis Rio Colorado, Sonora, Mexico

**Expansion of the Wastewater Collection System in B Avenues**

<table>
<thead>
<tr>
<th>TYPE</th>
<th>Wastewater</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Cost:</td>
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</tr>
<tr>
<td>Total NADB Funding:</td>
<td>US $3,258,520</td>
</tr>
<tr>
<td>Certification Date:</td>
<td>5/8/14</td>
</tr>
<tr>
<td>Residents to Benefit:</td>
<td>14,023</td>
</tr>
</tbody>
</table>

**PROJECT DESCRIPTION**

Expansion of the sewer system in eight sectors of the city, including the installation of up to 4,369 residential sewer hookups.

**Community Benefits**

Provision of first-time wastewater collection and treatment services to an estimated 14,023 residents, increasing wastewater collection coverage from 80% to 84% of the population. Elimination of a potential source of groundwater contamination from inadequate onsite disposal systems. Specifically, an estimated 0.92 mgd of wastewater will be collected and treated.

**NADB PARTICIPATION**

The Bank is a source of grant funds through the BEIF, to complement Mexican federal funding. On May 8, 2014, EPA approved the Bank's recommendation to provide US$3.45 million in BEIF funding for construction of the project. The corresponding grant agreement was signed on June 30, 2014, and disbursements began in December of the same year. The final disbursement occurred on June 15, 2018, leaving an unused balance of US$196,169. On December 31, 2019, the unused funds were deobligated, reducing the BEIF grant for this project to US$3.26 million.

**IMPLEMENTATION STATUS**

Construction began with Mexican funds in June 2013. As of September 2015, expansion of the sewer system in four sectors of the city had been completed. Four contracts for the installation of residential sewer connections were completed in June 2016. Construction of residential sewer lines in two additional sectors (Oriente and Poniente) was completed in December 2016. Installation of residual sewer connections in the Poniente sector was completed in July 2017. Installation of residual sewer connections in the Oriente sector, as well as the construction of sewer lines in the last two sectors (Jazmin and Las Flores) were completed in March 2018. Installation of residential sewer connections in the last two sectors was also completed March 2018, thus completing the entire certified project.
### San Quintín, Baja California, Mexico

**Desalination Plant**

- **Type:** Water
- **Total Cost:** US $48,202,093
- **Total NADB Funding:** US $36,610,000
- **Certification Date:** 3 / 8 / 18
- **Residents to Benefit:** 86,414

Construction of a seawater desalination facility with the capacity to produce 5.7 mgd of drinking water for the San Quintín Valley in the municipality of Ensenada, B.C.

**Community Benefits**
Development of an additional water supply source to ensure sustainable and reliable drinking water services for residents of San Quintín Valley, contributing to the preservation of groundwater resources and human health.

The Bank is a direct lender to complement equity contributions from the private concessionaire, Desaladora Kenton, S.A. de C.V., through a public-private partnership (PPP) with the state water agency. On March 8, 2018, the Bank approved a market-rate loan for up to US$36.61 million to cover approximately 76% of the project costs. The corresponding loan agreement was signed on March 28, 2018, and the condition precedent for loan commitment was met on September 30, 2018.

The project is being implemented under a build-operate-transfer (BOT) agreement. Construction is on hold due to change in state and municipal administrations.

### Socorro, Texas, USA

**Cotton Valley Wastewater Collection Project**

- **Type:** Wastewater
- **Total Cost:** US $1,246,466
- **Total NADB Funding:** US $1,246,466
- **Certification Date:** 12 / 3 / 14
- **Residents to Benefit:** 288

Construction of a new gravity sewer system for the Cotton Valley subdivision, including 78 sewer connections and decommissioning of 78 septic tanks.

**Community Benefits**
Provision of first-time wastewater collection and treatment services to the entire community, thus eliminating the environmental and health risks associated with the use of deteriorated and mismanaged septic tanks. Specifically, an estimated 30,000 gallons a day of sewage will be collected and treated.

The Bank is a source of grant funds through the BEIF. On July 16, 2014, the EPA approved the Bank’s recommendation to provide US$1.29 million in BEIF construction assistance for the project. The corresponding grant agreement was signed on January 29, 2015. The first BEIF disbursement occurred in October of 2017. The final disbursement occurred on August 22, 2018, leaving an unused balance of US$46,111. On October 31, 2019, the unused funds were deobligated, reducing the BEIF grant for this project to US$1.25 million.

A contract for construction of the sewer system was awarded in April 2017. Construction startup was delayed by dewatering issues. Work began in October 2017 and was completed in April 2018.

### Soto la Marina, Tamaulipas, Mexico

**Drinking Water System for José Silva Sánchez**

- **Type:** Water
- **Total Cost:** US $260,000
- **Total NADB Funding:** US $250,000
- **Certification Date:** 6 / 19 / 18
- **Residents to Benefit:** 135

Construction of a drinking water system, including the installation of a water transmission line, storage tank and distribution system, as well as equipping an existing well with a new power connection, pumping equipment and disinfection system.

**Community Benefits**
Provision of first-time access to safe and reliable drinking water service for 33 homes, eliminating the health risks associated with hauling water for residential use.

The Bank is a source of grant funds through the CAP to complement funding provided by the local water utility and state water agency. On June 19, 2018, the Bank approved a CAP grant for up to US$250,000 to cover up to 90% of the project costs, including possible fluctuations in the exchange rate and construction contingencies. The corresponding grant agreement was signed on March 7, 2019.

Bidding for construction of the project is expected to begin during the first quarter of 2020.
Sunland Park and Santa Teresa, New Mexico, USA
Camino Real Regional Authority Wastewater Treatment Project

<table>
<thead>
<tr>
<th>PROJECT</th>
<th>DESCRIPTION</th>
<th>NADB PARTICIPATION</th>
<th>IMPLEMENTATION STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Replacement of the 0.5-mgd North Wastewater Treatment Plant (WWTP) with a new 1.0-mgd package WWTP using extended aeration technology, and rehabilitation of the View Pointe Lift Station.</td>
<td>The Bank is a source of grant funds through the BEIF, to complement a grant from the State of New Mexico. On December 23, 2014, EPA approved the Bank's recommendation to provide US$8.0 million in BEIF funds for the construction of the project. The corresponding grant agreement was signed on May 18, 2015. On May 8, 2017, EPA agreed to provide an additional US$1.00 million in BEIF construction assistance to help cover increased costs based on actual procurement results, bringing total BEIF participation in this project to US$9.00 million. The initial disbursement occurred in December 2017. The grant agreement was amended to include the additional funding and was signed on January 15, 2018.</td>
<td>Construction of the new WWTP began in July 2017 and was completed in March 2019, along with the rehabilitation of the View Pointe Lift Station. The plant is in operation.</td>
<td></td>
</tr>
</tbody>
</table>

**Community Benefits**

Increased wastewater treatment capacity and improved effluent quality in compliance with current permit requirements, eliminating the risk of untreated or inadequately treated sewage discharges. Specifically, the new plant will treat 0.70 mgd of wastewater generated by the 1,981 residential connections currently served by the North WWTP, and has the capacity to be expanded to meet future demand.

**Type:** Wastewater

**Total Cost:** US $12,700,000

**Total NADB Funding:** US $9,000,000

**Certification Date:** 4 / 23 / 15

**Residents to Benefit:** 6,438
Tijuana and Playas de Rosarito, Baja California, Mexico

Expansion of the Water and Wastewater Systems

Type: Water / wastewater
Total Cost: US $48,420,000
Total NADB Funding: US $29,457,459
Certification Date: 7 / 21 / 09
Residents to Benefit: 1,111,891

**PROJECT**

**DESCRIPTION**

Expansion of the water distribution and wastewater collection systems in Tijuana, expansion of the wastewater collection system in Playas de Rosarito, upgrades to the Rosarito I Wastewater Treatment Plant (WWTP) and completion of the La Morita WWTP and the Tecolote-La Gloria WWTP.

**Community Benefits**

Reduction of environmental and health hazards associated with inadequate sewage disposal, thus providing a cleaner, healthier environment for local residents. An estimated 3 mgd of wastewater will be collected and treated prior to being discharged into the Pacific Ocean. Provision of first-time water services to currently unserved areas.

**NADB PARTICIPATION**

The Bank is a direct lender to complement funding from the local water utility, CESPT. In addition, several components of this project are expected to receive BEIF grants, along with matching Mexican grants. On July 21, 2009, the Bank approved a market-rate loan for up to US$27.96 million for the project. On July 17, 2009, EPA approved the Bank’s recommendation to provide a total of US$22.20 million in BEIF funds as follows: US$1.36 million for the Rosarito I WWTP and US$845,682 for the Aztlan, Independencia and Lomas de Rosarito sewer systems. The three sewer systems were completed with Mexican funds, so all of the BEIF funds will be used to fund the Rosarito I WWTP. On September 18, 2009, a US$22.08-million loan agreement was signed for the first tranche of the loan and disbursements began in December of the same year. The utility determined that the remainder of the loan was unnecessary and decided not to contract the second tranche. As a result, on August 6, 2010, the unsigned portion of the loan was cancelled, reducing the Bank’s participation in this project to US$24.28 million. On February 1, 2011, two additional components were certified for funding under this loan: the La Morita WWTP and the Tecolote-La Gloria WWTP. On February 16, 2011, EPA approved the Bank’s recommendation to provide a US$1.50 million BEIF grant for expansion of the Ejido Plan Libertador sewer system in Playas de Rosarito and a US$430,567 BEIF grant for expansion of the Alcatraces sewer system in Tijuana. As a result, total Bank participation in this project comes to US$26.21 million. On October 26, 2012, three additional components were certified for funding under this loan: the La Cuesta sewer system, the Farallon Collector and the SEDUE-SAAS force main. On December 3, 2014, additional sewer rehabilitation works in Tijuana were certified for partial funding under this loan, along with US$3 million in BEIF funds, bringing Bank participation to US$29.20 million. As of December 31, 2015, a total of US$1.48 million in BEIF funds has been deobligated from four projects, reducing Bank participation to US$29.46 million.

**IMPLEMENTATION STATUS**

Five water storage tanks totaling 11,000 m³, two pump stations, and waterlines in four subdivisions have been completed, as well as two wastewater force mains. Construction of the 9-km Matanuco collector was completed in July 2010. The La Morita plant has also been completed and began operations in August 2010. The La Cuesta sewer system in Tijuana was completed in January 2013. Rehabilitation of the SEDUE-SAAS force main was completed in April 2013. Expansion of the Rosarito I WWTP was completed in September 2013. Rehabilitation of the Farallon collector was completed in February 2014. The sewer lines in Ejido Plan Libertador in Playas de Rosarito and in Col. Alcatraces in Tijuana, were completed in December 2013. Additional sewer connections related to these two projects were completed in September 2014. Rehabilitation of four wastewater collectors was completed in December 2015. Construction on the fourth phase of the Sanchez Taboada collector was completed in February 2016. Rehabilitation of two sections of the same collector funded by the Bank began in July 2015 and was completed in February 2016. Two contracts for residential hookups in Tijuana were completed in September 2016. The rehabilitation of three collectors began in September 2016, and the work was completed in May 2017. Rehabilitation of the wastewater collection system that discharges to the Las Americas Collector began in August 2017 and was completed in October 2018.

The Tecolote-La Gloria plant is approximately 55% complete; but construction is currently on hold due to a contractor dispute.
**Tijuana, Baja California, Mexico**

**Construction of the Tecolote-La Gloria Wastewater Treatment Plant**

**Type:** Wastewater  
**Total Cost:** US $8,228,555  
**Total NADB Funding:** US $4,129,079  
**Certification Date:** 2/1/11  
**Residents to Benefit:** 187,036

**DESCRIPTION**

Construction of the 8.7 mgd Tecolote-La Gloria Wastewater Treatment Plant.

**Community Benefits**

Reduction of environmental and health hazards associated with untreated sewage discharges that affect local residents, as well as other communities along the Pacific coast, including California.

The Bank is providing loan funds to complete the financing for this project, which also includes funding from the local water utility, CESPT, as well as Mexican federal grants and a loan from the Japan Bank of International Cooperation (JBIC). On September 18, 2009, NADB and CESPT signed a US$22.08 million loan agreement to finance several water and wastewater works. Approximately US$4.13 million of that loan is allocated to the implementation of this project, but disbursement has been delayed since the project was put on hold.

The Tecolote-La Gloria plant is approximately 55% complete with Mexican funding. Construction is currently on hold due to a contractor dispute.

**NADB PARTICIPATION**

**IMPLEMENTATION STATUS**

Construction of the Tecolote-La Gloria Wastewater Treatment Plant.

- **Type:** Wastewater  
- **Total Cost:** US $8,228,555  
- **Total NADB Funding:** US $4,129,079  
- **Certification Date:** 2/1/11  
- **Residents to Benefit:** 187,036

**Tijuana, Baja California, Mexico**

**Rehabilitation of the Wastewater Collection Main Lines and Residential Wastewater Connections**

**Type:** Wastewater  
**Total Cost:** US $7,045,723  
**Total NADB Funding:** US $4,205,569  
**Certification Date:** 12/3/14  
**Residents to Benefit:** 524,908

**DESCRIPTION**

Replacement of deteriorated sanitary sewer collection lines and installation of residential wastewater connections.

**Community Benefits**

Improvements to the wastewater collection and conveyance system will reduce environmental and health hazards associated with inadequate sewage disposal. An estimated 90,156 gallons a day of wastewater will be collected and treated, preventing the potential contamination of shared water bodies, such as the Tijuana River and eventually, the Pacific Ocean.

The Bank is a direct lender and source of grant funds through the BEIF, to complement federal and state grants. This project is component of a larger water and wastewater project funded by an NADB loan. Some of the proceeds from that loan will also be applied to the construction of this project. On October 23, 2014, EPA approved the Bank’s recommendation to provide US$3.0 million in BEIF funds for the construction of the project. The corresponding grant agreement was signed on March 24, 2015, and disbursements began in July 2015. The final disbursement occurred on April 11, 2019, leaving an unused balance of US$604,280. On December 31, 2019, the unused funds were deobligated, reducing the BEIF grant for this project to US$2.40 million. A total of US$1.81 of the loan proceeds were applied to this project, bringing total Bank participation to US$4.21 million.

Rehabilitation of four wastewater collectors financed with Mexican funds were completed in December 2015. Rehabilitation of two sections of a collector funded by the Bank began in July 2015 and was completed in February 2016. Two contracts for residential hookups were completed in September 2016. The rehabilitation of three collectors began in September 2016, and the work was completed in May 2017. Rehabilitation of the wastewater collection system that discharges to the Las Américas Collector began in August 2017 and was completed in October 2018, thus completing the entire certified project.
### Tijuana, Baja California, Mexico

**Rehabilitation of the Collector Poniente**

<table>
<thead>
<tr>
<th>Type</th>
<th>Wastewater</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Cost</td>
<td>US $3,014,000</td>
</tr>
<tr>
<td>Total NADB Funding</td>
<td>US $1,524,360</td>
</tr>
<tr>
<td>Certification Date</td>
<td>11 / 9 / 17</td>
</tr>
<tr>
<td>Residents to Benefit</td>
<td>86,950</td>
</tr>
</tbody>
</table>

**Description**

Rehabilitation of three segments of the Collector Poniente, along with the replacement of a few related sub-collectors.

**Community Benefits**

- Reduced risk of line breaks and leaks, thereby preventing the potential contamination of surface and groundwater sources. Specifically, the project will prevent the potential discharge of approximately 4 mgd of untreated wastewater, which could affect the Tijuana River, a transboundary water body.

**NADB Participation**

The Bank is a source of grant funds through the BEIF, to complement federal grants and equity investments made by the local utility, CESPT. On November 8, 2017, EPA approved the Bank's recommendation to provide US$1.17 million in BEIF funds for the construction of the project. The corresponding grant agreement was signed on April 13, 2018. On June 8, 2018, EPA agreed to provide an additional US$350,000 in BEIF construction assistance to cover increased costs based on actual procurement results, bringing total BEIF participation in this project to US$1.52 million. Disbursements began in August 2018. The grant agreement was amended to include the additional funding and was signed on October 30, 2019.

**Implementation Status**

Construction of a portion of Segment 2 was completed with Mexican funding in 2017. Work to replace the remaining portion of Segment 2 was completed in February 2019. Construction on Segments 1B and 3 was completed in June 2019, thus completing the entire project.

### Tijuana, Baja California, Mexico

**Rehabilitation of Collector Poniente: Segment 1A**

<table>
<thead>
<tr>
<th>Type</th>
<th>Wastewater</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Cost</td>
<td>US $6,460,000</td>
</tr>
<tr>
<td>Total NADB Funding</td>
<td>US $2,420,000</td>
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<td>Certification Date</td>
<td>5 / 30 / 19</td>
</tr>
<tr>
<td>Residents to Benefit</td>
<td>87,000</td>
</tr>
</tbody>
</table>

**Description**

Rehabilitation of segment 1A of the Collector Poniente.

**Community Benefits**

- Reduced risk of line breaks and leaks, thereby preventing the potential contamination of surface and groundwater sources. Specifically, the project will prevent the potential discharge of approximately 4 mgd of untreated wastewater, which could affect the Tijuana River, a transboundary water body.

**NADB Participation**

The Bank is a source of grant funds through the BEIF, to complement federal, state and local funding. On May 3, 2019, EPA approved the Bank's recommendation to provide US$2.42 million in BEIF funds for the construction of the project. The corresponding grant agreement was signed on June 6, 2019, and disbursements began in September of the same year.

**Implementation Status**

Segment 1A has been divided into four sections. Construction on sections 1, 2 and 3 financed with Mexican funds, began in July 2019. Construction of section 4 funded by the Bank began in August 2019. Project construction is approximately 45% complete.

### Tornillo, Texas, USA

**Arsenic Treatment and Wastewater Collection Project**

<table>
<thead>
<tr>
<th>Type</th>
<th>Water / wastewater</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Cost</td>
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</tr>
<tr>
<td>Total NADB Funding</td>
<td>US $ 3,750,072</td>
</tr>
<tr>
<td>Certification Date</td>
<td>8 / 28 / 14</td>
</tr>
<tr>
<td>Residents to Benefit</td>
<td>3,500</td>
</tr>
</tbody>
</table>

**Description**

Construction of an arsenic treatment facility (ATF) for water wells No. 2 and 3, as well as 19 new residential wastewater connections that will be incorporated into the ATF waste line.

**Community Benefits**

- Improved water quality by reducing arsenic concentrations to acceptable levels in compliance with current federal regulations, as well as removing iron and manganese ions. First-time sewer service for 19 households, eliminating approximately 5,600 gallons per day of inadequately treated and untreated wastewater.

**NADB Participation**

The Bank is a source of grant funds through the BEIF. On May 8, 2014, EPA approved the Bank's recommendation to provide US$3.25 million in BEIF construction assistance for this project. The corresponding grant agreement was signed on November 14, 2014. On May 4, 2016, EPA approved an additional US$498,612 in BEIF funds to cover increased costs based on actual procurement results, bringing total BEIF participation in this project to US$3.75 million. The amended grant agreement was signed on May 12, 2016, and disbursements began in August 2016.

**Implementation Status**

Construction of the arsenic treatment facility and related works began in June 2016. Work was substantially complete, and the ATF began operations in February 2017. The remaining work was completed in September 2017.

The project was completed under budget. The remaining funds will be used to provide additional training for system operators.
### Whetstone, Arizona, USA
**Water Supply and Distribution System Improvements**

<table>
<thead>
<tr>
<th>Type</th>
<th>Water</th>
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</thead>
<tbody>
<tr>
<td>Total Cost:</td>
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<tr>
<td>Total NADB Funding:</td>
<td>US $ 500,000</td>
</tr>
<tr>
<td>Certification Date:</td>
<td>6 / 19 / 18</td>
</tr>
<tr>
<td>Residents to Benefit:</td>
<td>940</td>
</tr>
</tbody>
</table>

**Description:**
Construction of Well No. 3, installation of a redundant pipeline interconnection across Highway 90, and electrical and minor equipment upgrades at Wells No. 1 and 2.

**Community Benefits:**
Improved access to sustainable drinking water service for 459 existing residential service connections by increasing water supply, service reliability and system redundancy, which will reduce incidents of low pressure and service interruptions, as well as health risks associated with waterborne diseases.

**NADB Participation:**
The Bank is a source of grant funds through the CAP to complement funding provided by the Whetstone Water Improvement District (WWID). On June 19, 2018, the Bank approved a CAP grant for up to US$500,000 to cover about 71% of the project costs. The corresponding grant agreement was signed on November 14, 2018.

**Implementation Status:**
A contract to install the pipeline and make upgrades to the wells was awarded in December 2019, with work scheduled to begin in January 2020.

### Willcox, Arizona, USA
**Wastewater Treatment Plant Improvements**

<table>
<thead>
<tr>
<th>Type</th>
<th>Wastewater</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Cost:</td>
<td>US $ 16,510,160</td>
</tr>
<tr>
<td>Total NADB Funding:</td>
<td>US $ 4,698,210</td>
</tr>
<tr>
<td>Certification Date:</td>
<td>5 / 14 / 15</td>
</tr>
<tr>
<td>Residents to Benefit:</td>
<td>3,757</td>
</tr>
</tbody>
</table>

**Description:**
Upgrades to the wastewater treatment plant (WWTP), changing it from a lagoon system to an oxidation ditch process.

**Community Benefits:**
Improved quality of the treated water discharged to Cochise Lake, reducing health risks associated with environmental deterioration and water contamination. Additionally, the City will be able to continue using treated wastewater to irrigate the golf course, rather than potable water resources.

**NADB Participation:**
The Bank is a source of grant funds through the BEIF to complement a grant and loan from the U.S. Department of Agriculture Rural Development (USDA-RD). On March 24, 2015, EPA approved the Bank’s recommendation to provide US$4.62 million in BEIF construction assistance for this project. The corresponding grant agreement was signed on June 11, 2016. On March 28, 2017, EPA agreed to provide an additional US$80,028 in BEIF construction assistance to help cover construction management costs, bringing total BEIF participation in this project to US$4.70 million. Disbursements began in July 2017. The BEIF grant agreement was amended to include the additional funding and was signed on April 30, 2018.

**Implementation Status:**
Construction of upgrades to the WWTP began in June 2017 and was substantially complete in April 2019. The new treatment process is in the testing phase and expected to be fully operational in February 2020. Work to close the abandoned lagoon system began in May 2019 and is approximately 85% complete.