

NADBank: The Infrastructure Bank for the U.S.-Mexico Border

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A binational infrastructure development bank established in 1994

Mandate: Develop and finance environmental infrastructure along the U.S.-Mexico border to improve the well-being of the population:

PIARC

- Projects located within 100 km (62 miles) north and 300 km (186 miles) south of the border
- Structure: Owned and governed equally by the Governments of the United States and Mexico
- Offices: San Antonio, TX and Ciudad Juarez, CHIH
- Ratings: Aa1 Moody's; AA Fitch



NADBank's Development Strategy

CLIMATE CHANGE

Eligible Project Types

PIARC



» Adaptation





SUSTAINABLE CITIES

- » Urban development
- » Sustainable buildings
- » Industrial parks
- » EV charging stations



SUSTAINABLE PRODUCTION

» Green

manufacturing and products (inc. EVs and EV chargers)

» Food value chains

- » Mitigation



NADBank Programs

Competitive, fixed or floating rates
 Terms of up to 30 years
 Technical support and project structuring services

EPA-funded Border Environment Infrastructure Fund (BEIF)
 NADBank-funded Community Assistance Program
 Border 2025 Program administration

Technical Assistance

PIARC

- Project development
- Capacity-building
- Utility Management Institute



Proven Track Record



US\$11.5 billion Total investment

Sustainable food value chains , 1 ProRec, 7

> Water / wastewater, 175



Air Quality Project

PIARC

CASE STUDY: International Bridge Expansion



AIR QUALITY





Case Study: Expansion of Anzalduas Int'l. Bridge



- Owned and Operated by the City of McAllen
- City sought to expand their existing international bridge to allow for processing of commercial traffic. Pres. Permit allowed it.
- City will build federal commercial inspection facility, then donate it back to the federal government.
- Total project cost was originally estimated at \$59.6 million.
- At that time, NADBank loan was considered at \$33.5 million (Pre-inflation).



AMIVTAC

NADBank Financing Factors & Project Analysis

Technical Viability

PIARC

– Verified, these inspection facilities exist.

Financial Feasibility

- Debt to be re-paid by bridge tolls
- One bridge was insufficient until they pledged bridge system revenues.



- benefits
 - Need more information Became evident we need to hire
 - an expert
- Sustainable Development
 - Yes, this project is a LEEDcertified.

NADBank financing timeline may take between 4-8 months.

Environmental and health







NADBank's Technical Assistance Program (TAP)

NADBank invested US\$100,000 from TAP to request a study from:

PIARC



- Dr. Tom Kear has more than 30 years of air quality and mobile source emissions analysis (with 15 years in transportation) analysis).

 Developed the US-Mexico Joint Working Committee land port of entry analysis template for FHWA in 2012.

• Analyzed 19 different land ports of entry over the last decade for Caltrans, SANDAG, NADBank, CEC, Imperial County and others.



Analyses Conducted



- Offsite Vehicle Miles Traveled and Emissions through both International Crossings (traffic & destination).
- Delay Results were also analyzed to determine wait times associated at each POE.
- Emissions Alternative Analysis was conducted to show results without the project and mid-case with project being constructed.



- IARC
 - Using the mid-case assumption: The project will shift roughly 44% of regional crossings from one bridge to the proposed project.
 - Shift will reduce wait times by:
 - 21 minutes for FAST lanes,
 - 31 minutes for general commercial crossing trucks, &

- 5 minutes for empty commercial trucks.

All estimates are based on annual average weekday emissions in 2020, based on the higher of either 2019 or 2020 traffic flows to negate the effect of COVID 19 disruptions to the economy and transportation systems.

Study showed that project will reduce border crossing emissions:

- for carbon dioxide (CO_2) about 5%

– for nitrogen oxides (NOx) by about 5%

– for hydrocarbons (VOC) by about 5%

– for carbon monoxide (CO) by about 2%

- for particulate matter (PM_{10} , $PM_{2.5}$) by 5%



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Environmental and health benefits

- health benefits
- Almost 1 million will benefit from improved air quality

Sustainable Development

- Study showed both environmental &

– Yes, project is a LEED-certified.





Potential EV Financing Options

For EV or Battery Manufacturer or EV Charging Stations

- NADBank can provide:
 - –Financing to Public Sector Sponsor,
 Private Sector Sponsor, or PublicPrivate Partnership.
- Options for project finance (including gap financing):
 - -Loan or

PIARC

- -Revolving line of credit
- Either could have a longer pay back period (up to 10 years).



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Bali Express Trucking--Otay Mesa CA



No emission commercial freight fleet conversion

Sponsor/Borrower:	Bali Express Services, Inc.
Estimated cost:	US\$42 M
NADBank financing:	Up to US\$32 M
Benefitted pop:	Border Community-wide
Purpose:	Improve air quality by financing a fleet conversion technologies, supporting State regulatory compli- criteria pollutants and greenhouse gases (GHG); diesel-fueled freight trucks from service.
Expected results:	 Improve air quality through the sale of zero emission vehicles that improvisides of the San Diego-Tijuana border. Estimated GHG emissions avoided in first 5530 tons/year, NOx is greater than 47 to close to one metric ton/year.



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year is greater than ns/year and SO₂ is

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Thanks

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