



# ANNUAL REPORT

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BORDER ENVIRONMENT  
COOPERATION COMMISSION





2013

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## MESSAGE FROM BECC'S MANAGEMENT

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For the Border Environment Cooperation Commission (BECC) and its sister organization, the North American Development Bank (NADB), 2013 marked the second consecutive year of extraordinary results. These accomplishments were driven by the growing opportunities in the area of renewable energy, the approval of five projects to receive construction grants under the NADB's Community Assistance Program (CAP), strong partnerships to advance BECC-managed environmental initiatives and the growth of each institution's capacity-building programs. As of December 31, 2013 BECC has participated in the development and certification of 227 projects worth an estimated total investment of more than US \$7 billion.

During 2013, BECC certified 19 environmental infrastructure projects, including the first landfill biogas project in Saltillo, Coahuila, and the first cross-border wind power project based in California and Baja California. BECC also approved over US \$2.4 million in technical assistance grants to support project development in 15 border communities. In the area of capacity building, BECC supported the development of Climate Action Plans in the states of Baja California, Chihuahua, Coahuila and Tamaulipas, and collaborated with the US Agency for International Development (USAID), the US Environmental Protection Agency (EPA), and with state and local entities to conduct energy audits for 10 water and wastewater utilities in US and Mexican border communities. These and other accomplishments for the year are detailed throughout this annual report.

As BECC prepares to commemorate its 20th anniversary in 2014, government stakeholders, communities and the private sector in the US and



BECC'S Administrators

Mexico continue to acknowledge its success in achieving the original purpose of helping improve the environmental conditions and quality of life for residents along the US - Mexico border. BECC is committed to strengthening its work under each of its core programs (project certification, technical assistance, stakeholder collaboration and institutional capacity building) and to collaborate with NADB and other partners to find new strategies to advance the mission conferred on it by the US and Mexican governments, in an even more effective manner.

BECC will continue to focus its attention on supporting relevant environmental initiatives and quality infrastructure projects along the US-Mexico border. We look forward to the opportunities that the coming year will bring. ♻️



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# INSTITUTIONAL PERFORMANCE & RESULTS HIGHLIGHTS

Details regarding all BECC-certified projects can be found on BECC's website, [www.becc.org](http://www.becc.org)

Since its inception, BECC has certified a total of 227 projects, 107 in the US and 120 in Mexico, costing an estimated US \$6.99 billion to construct and benefit an estimated 14.7 million border residents. From 1995 to December 31, 2013, BECC's most notable project-related accomplishments include the following:

SECTOR	US	MEXICO	TOTAL
Water & Wastewater *	60	71	131
Solid Waste	6	17	23
Water Conservation	24	1	25
Air Quality	-	26	26
Clean & Efficient Energy	17	5	22
<b>Total</b>	<b>107</b>	<b>120</b>	<b>227</b>

\* Water and Wastewater sector includes Storm Water and Basic Urban Infrastructure Projects

NADB is participating or has participated in 192 BECC-certified projects with US \$2.25 billion in loans and grants, of which 88% has been disbursed for project implementation. To date, 153 projects certified by BECC have been completed and are in operation. NADB provided almost US \$1.6 billion dollars in loans and grants to support 140 of those projects, which represent a total investment of more than US \$3.9 billion to build. An estimated 8.7 million border residents are benefiting from the projects certified by BECC and funded by NADB.

## ⌘ Social and Environmental Benefits of BECC

### Certified Projects in operation:

- ⌘ 131 water and wastewater projects providing new or improved services to 12.67 million border residents with a capacity to adequately treat more than 457 million gallons per day (MGD) of wastewater discharges.
- ⌘ 23 solid waste projects accommodating approximately 1,550 metric tons per day of waste previously disposed of in uncontrolled dump sites, benefiting 2.9 million people.
- ⌘ 12 air quality projects related to paving and urban mobility, eliminating approximately 170,000 metric tons per year of PM<sub>10</sub>, caused by vehicular traffic on unpaved roadways.
- ⌘ 25 water conservation projects estimated to save energy and to decrease water losses by approximately 330 MGD; enough to serve the average daily demand of some four million people.
- ⌘ 20 clean and efficient energy projects with 1,280 megawatts (MW) of renewable energy capacity and anticipated to prevent greenhouse gas emissions equivalent to almost 1,487,705 metric tons/day of carbon dioxide (CO<sub>2</sub>) per year (equivalent to the removal of 264,622 private vehicles from circulation).





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# CERTIFIED PROJECTS

US \$



US	TOTAL PROJECTS	ESTIMATED COST AT CERTIFICATION (US\$)
California (CA)	24	\$ 1,143,920,000
Arizona (AZ)	20	\$ 359,160,000
New Mexico (NM)	10	\$ 68,490,000
Texas (TX)	53	\$ 1,596,410,000
<b>Total</b>	<b>107</b>	<b>\$ 3.16 Billion</b>

**227 Certified Projects**  
 Total Estimated Cost: US \$ 7 Billion

MEXICO	TOTAL PROJECTS	ESTIMATED COST AT CERTIFICATION (US\$)
Baja California (BC)	34	\$ 1,574,010,000
Sonora (SON)	29	\$ 640,430,000
Chihuahua (CHIH)	27	\$ 501,500,000
Coahuila (COAH)	4	\$ 162,750,000
Nuevo León (NL)	6	\$ 106,080,000
Tamaulipas (TAMPS)	20	\$ 865,260,000
<b>Total</b>	<b>120</b>	<b>\$ 3.85 Billion</b>



1995 2013  
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# TECHNICAL ASSISTANCE

US \$



Potential projects are eligible for support through the Project Development Assistance Program (PDAP) and BECC's Technical Assistance (TA) Fund. These resources provide technical and financial assistance during the project planning stage. PDAP grant funds, supported by EPA's US-Mexico Border Water Infrastructure Program, are available for public water and wastewater infrastructure projects identified through a program-specific prioritization process. BECC's TA grants support BECC-NADB eligible project types. Since its inception, BECC has provided US \$ 44.64 million to 165 communities.

US	Total PDAP	Total BECC TA
California (CA)	\$ 3,250,332	\$ 209,917
Arizona (AZ)	\$ 5,339,276	\$ 281,929
New Mexico (NM)	\$ 4,861,480	\$ 147,705
Texas (TX)	\$ 13,277,984	\$ 1,115,157

MEXICO	Total PDAP	Total BECC TA
Baja California (BC)	\$ 1,812,220	\$ 885,410
Sonora (SON)	\$ 3,120,495	\$ 805,329
Chihuahua (CHIH)	\$ 2,250,031	\$ 1,118,876
Coahuila (COAH)	\$ 852,446	\$ 469,150
Nuevo León (NL)	\$ 153,752	\$ 354,150
Tamaulipas (TAMPS)	\$ 3,305,405	\$ 1,028,257

**TOTAL:**  
 US \$44.64 million      165 border communities









2013

# INSTITUTIONAL PERFORMANCE & RESULTS HIGHLIGHTS BY PILLAR

BECC's success in fulfilling its ambitious mandate requires having the right tools to guide and measure those results. Using the Balanced Scorecard (BSC) model to translate annual strategic objectives into clear and measurable actions, BECC developed its annual goals from the perspective of its clients —the expectations of its Board, NADB, and other border stakeholders— as well as to assure sufficient institutional capacity. Additional information about each program and its related BSC objectives is available in the "Year in Review: BECC Performance and Results 2013" that is available at: [www.becc.org](http://www.becc.org)

In 2013, BECC successfully met 91% of its BSC objectives and continued to advance its mission through significant accomplishments in each of its four institutional pillars. Developed in 2011, these institutional pillars provide a strategy to help meet short and long term goals and objectives. Since its implementation, this strategic approach has helped set specific targets with measurable outcomes in each of BECC's directorates in the following four areas:

- Pillar 1 : Project Certification**  
Compliance with certification and access to NADB financing.
- Pillar 2 : Technical Assistance**  
Provide technical services and/or financial assistance to support efforts for the development of high quality projects.
- Pillar 3 : Stakeholder Collaboration**  
Promote institutional relationships with border stakeholders at the federal, state and local levels.
- Pillar 4 : Institutional Capacity Building**  
Strengthen institutional capacities by generating information and providing training.





# PILLAR 1: PROJECT CERTIFICATION

*Working with project sponsors at the local, state and federal levels, BECC's primary purpose is to support border communities in identifying and developing environmental infrastructure projects in order to improve human health, promote sustainable development and contribute to enhancing the quality of life in the border region.*

In 2013, BECC certified 19 projects representing a total investment of almost US \$710 million, of which NADB approved approximately US \$281.5 million in financing for those projects. More than a million border residents are expected to benefit from improved environmental and health conditions as a result of these projects.

## Water / Wastewater Sector



Wastewater System Improvements, Brawley, CA

Wastewater Collection System Expansion Project, Holtville, CA



Wastewater Gravity Main (Outfall) Replacement, Holtville, CA

New Water Transmission Line, San Luis, AZ

Wastewater Collection System Expansion to Sulger Subdivision, Sierra Vista, AZ

Drinking Water System Improvements Program-Meter Replacement, Sunland Park, NM

Construction of a Wastewater Collector, Nuevo Casas Grandes, CHIH

New Storm Water Infrastructure Project, Santiago, NL

## Air Quality Sector



Street Paving and Rehabilitation Project, San Luis Río Colorado, SON

## Basic Urban Infrastructure Sector



Basic Urban Infrastructure Project, Hermosillo, SON

## Energy Sector



Energía Sierra Juarez 1 Wind Energy Project, Tecate, BC and San Diego County, CA



IID Community Solar Park, Brawley, CA

El Centro Solar Park, El Centro, CA



Sol Orchard Solar Project I, Ramona, CA

Sol Orchard Solar Project II, Ramona, CA

Sol Orchard Solar Project I, Valley Center, CA

Sol Orchard Solar Project II, Valley Center, CA

Alamo 4 Solar Park, Brackettville, TX

Lorean Landfill Gas-to-Energy Project, Saltillo, COAH

**Basic Sectors:** Water pollution, Wastewater treatment, Water conservation, Municipal solid waste, Industrial & hazardous waste, Recycling & waste reduction.

**Expanded Sectors:** Air quality, Clean & efficient energy, Public transportation, Municipal planning & development, International border crossings, Energy transmission / distribution, Production of goods / services to enhance or protect the environment (if the project provides a net environmental benefit to the region). Other infrastructure designed to minimize future negative environmental impacts in the region.

## Community Assistance Program (CAP)

Through NADB's CAP, grants help support the implementation of critical environmental infrastructure projects in communities in the US-Mexico border region. CAP grants are available for public projects in all sectors eligible for NADB financing, with priority given to drinking water, wastewater and solid waste infrastructure. To date, a total of US \$2.18 million has been approved and contracted to support the implementation of projects.



## PILLAR 2: TECHNICAL ASSISTANCE

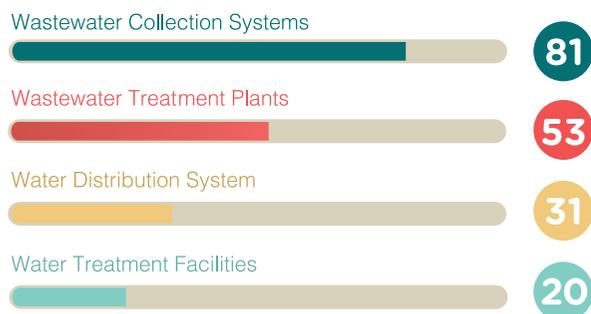
*The purpose of the Technical Assistance (TA) Program is to provide grants or technical expertise to promote the development of high quality environmental infrastructure projects and initiatives that could be eligible for additional funding through NADB, the US-Mexico Border 2012/Border 2020 Program or other programs.*

BECC supports the development of projects by funding planning, environmental impact, financial feasibility, public participation and final design studies through technical assistance programs. A multi-disciplinary project development team assists project sponsors, which in turn strengthens the project sponsors' institutional capacity.

### 🌱 US-Mexico Border Water Infrastructure Program

Since 1997, the US-Mexico Border Water Infrastructure Program, funded by EPA, has awarded grants to water and wastewater systems in the border region through the Border Environment Infrastructure Fund (BEIF), for construction, and the Project Development Assistance Program (PDAP), for project development and design. BEIF is managed by NADB while PDAP is managed by BECC.

#### PDAP/BEIF Infrastructure Results



### 🌱 PDAP Grants 2013 (US \$)

In 2013, 15 communities received PDAP grants totaling US \$2,355,668 for project development tasks such as preliminary engineering reports, environmental information documents and final design, including studies for:

**Wastewater Projects: 10**  
**Total Grant Amount: \$1,361,768**

- |                            |                            |
|----------------------------|----------------------------|
| Niland & Palo Verde, CA    | Tijuana, BC                |
| Sierra Vista & Willcox, AZ | San Luis Rio Colorado, SON |
| Sunland Park, NM           | Loma Blanca, CHIH          |
| El Paso, TX                | Reynosa, TAMPS             |

**Drinking Water Projects: 3**  
**Total Grant Amount: \$625,734**

- Pomerene, AZ
- Anthony & Mesilla, NM

**Drinking Water/ Wastewater Projects: 2**  
**Total Grant Amount: \$368,166**

- Holtville, CA
- Nogales, SON

### 🌱 BECC TA Grants 2013 (US \$)

BECC's Technical Assistance Fund supports the development of projects in all eligible sectors. In 2013, BECC awarded 10 grants totaling US \$351,219.

**Energy Audits (5) \$212,035**  
 Baja California and Tamaulipas

**Solar Panel Project \$50,000**  
 Tijuana, BC

**Hydrogeologic Study \$44,114**  
 Nogales, SON

**Landfill Improvements Project \$24,589**  
 Chihuahua, CHIH

**Landfill Operation Training \$10,481**  
 San Luis Rio Colorado, SON

**Environmental & Public Health Summit \$10,000**  
 San Diego, CA



# ENERGY AUDITS



Energy is considered a key element in the operation of water and wastewater utilities. However, with energy expenses taking up to 40% of operating costs for utilities worldwide, utilities are challenged to find ways to operate more efficiently. In the past year, BECC along with its partners USAID and EPA, have conducted energy audits that analyze the use of electricity and other energy inputs and provide recommendations to improve operational efficiency and reduce energy costs. For 2013, BECC awarded grants worth more than US \$530,000 to various utilities along the border.

**PDAP Grants (US \$)**

Willcox, AZ	\$ 43,083
Anthony, NM	\$ 35,023
San Luis Rio Colorado, SON*	\$ 57,819

\*Energy and Water Audit

**Border 2012 Grants (US \$)**

Piedras Negras, COAH	\$ 40,172
Matamoros, TAMPS	\$ 50,000
Nuevo Laredo, TAMPS	\$ 49,770
Reynosa, TAMPS	\$ 50,000

**BECC Technical Assistance Grants (US \$)**

Baja California	\$ 99,535
Ciudad Victoria, TAMPS	\$ 50,000
Matamoros, TAMPS	\$ 5,460
Reynosa, TAMPS	\$ 11,710
Rio Bravo, TAMPS	\$ 45,330

**The audits examine:**

- Energy Usage by the Existing Facilities:**  
Such as motors, pumps, headworks, activated sludge, UV disinfection, lift stations, clarifiers, lighting, heating, cooling, etc.
- Historic Energy Usage:**  
Costs and kWh used, and an analysis of financial impact of current usage patterns.
- Recommended Conservation Measures:**  
Such as efficient pumps, cycled operation of UV disinfection, automatic controls for lighting and aeration systems, energy management software.
- Renewable Energy Systems:**  
Examine the potential to add renewable energy systems to the treatment plant, such as solar, wind, and methane gas harvesting.
- Financial Impacts of the Recommendations:**  
Capital costs, savings, and payback.

**Energy Audits for Tamaulipas Communities**

Through the EPA Border 2012 (now Border 2020) Program, operators of water and wastewater treatment plants and water wells in five border cities in the state of Tamaulipas began working on initiatives to improve energy efficiency in their operations. By effectively using energy audits, systems in Cd. Victoria, Nuevo Laredo, Reynosa, Río Bravo and Matamoros have reduced operating costs and improved operational efficiency by optimizing energy use and processes.

**Energy Management Program for Baja California**

BECC continued its collaboration with USAID through the development of an energy management program for the State of Baja California. Working with the public/private partnership of Green Hub/MDB Advisors LLC and USAID (through its Global Development Alliance), BECC is implementing a “Municipal Water/Wastewater Utility Greenhouse Gas Reduction and Energy Management Program” that will identify projects that will reduce energy use and costs as well as greenhouse gas emissions in the operation of water and wastewater utilities throughout the state. Through its agreement with GH/MDB Advisors LLC, USAID is contributing up to US \$ 1 million to the program.

Energy Audits for Tamaulipas Communities



Energy Management Program for Baja California



Large-Scale Fuel-Efficient Driving Techniques Workshops



On-Board Diagnostics Training Workshop





BORDER 2012

BORDER 2020

# US - MEXICO ENVIRONMENTAL PROGRAM

Since 2005, BECC has worked with the Border 2012 Program (now Border 2020 Program), a collaborative effort of the United States and Mexico to improve the environment and protect the health of people living along the border. Through this partnership, several key programs and initiatives aimed at reducing air pollution, improving access to clean and safe water and increasing environmental stewardship have had a great impact along the border region. The work being done through Border 2012/Border 2020 supports communities in their efforts to improve environmental conditions and develop actions aimed at protecting the environment and public health along the US-Mexico border.

## 🌱 Completed Projects in 2013

### Energy Audit (Municipal Water Utility)

### Grant

Matamoros, TAMPS	\$ 50,000
Nuevo Laredo, TAMPS	\$ 49,770
Reynosa, TAMPS	\$ 50,000
<i>Goal 1: Reduce Water Contamination</i>	

### Vehicle Emissions Training

Cd. Juarez, CHIH	\$ 34,000
<i>Goal 2: Reduce Air Pollution</i>	

## 🌱 Clean Transportation Workshop

BECC, along with Mexico's Ministry of Environment and Natural Resources (SEMARNAT), hosted the workshop in Nuevo Laredo, TAMPS to present the results of the "Design of a Strategy to Reduce Particle Pollution as part of the Clean Transportation Program." With funding from the EPA, the project was implemented as an effort to support Mexico's nationwide Clean Transportation Program. The purpose of the study was to assess the status of freight transportation in the Laredo-Nuevo Laredo region, determine which technologies had greatest potential to reduce the particles produced by the trucks in this region, and establish a preliminary schedule to implement selected technologies.

## 🌱 Large-Scale Fuel-Efficient Driving Techniques Workshops

Three workshops, developed for area training instructors, freight operators and managers to teach them driving techniques that will help them obtain substantial fuel savings, were held in Cd. Juarez, CHIH, Monterrey, NL and Tijuana, BC. Supported through Mexico's SEMARNAT, EPA and the Clean Air Institute (CAI), this program is intended to contribute to the reduction of energy consumption, emissions of greenhouse gases (GHG) and criteria pollutants.

## 🌱 On-Board Diagnostics Training Workshop

Held in Cd. Juarez, CHIH, and hosted jointly with SEMARNAT, the Chihuahua State Secretariat of Urban Development and Ecology, the Municipal Office of Ecology of Cd. Juarez, CHIH, and EPA, this workshop informed local instructors of the new technologies available to make accurate assessments and to train them as active agents of environmental and health awareness.



🌱 Completed Projects in 2013 (US \$)

**Goal 1: Reduce Water Contamination**



Training on water quality initiatives and assessment of water quality data for Mexican officials in Austin, TX (Grant: \$33,260)

Water Quality Survey in Vinton, TX (Grant: \$14,960)

Beach Water Quality Monitoring Project in Playas de Tijuana, BC (Grant: \$12,212)

**Goal 2: Reduce Air Pollution**



Maximizing Resources through Collaboration in Sustaining the New Mexico-Chihuahua Border Environment in Las Cruces, NM (Grant: \$100,000)

Air Pollution Related Health Costs in Mexicali and Tijuana, BC (Grant: \$80,000)

Mexican Border States Emission Inventories throughout the state of Chihuahua (Grant: \$60,000)

Design of a strategy to reduce particles as part of the Clean Transportation Program in Nuevo Laredo, TAMPS (Grant: \$41,000)

Air Monitoring Infrastructure Improvement Project with the Center for Research and Environmental Education in Nuevo Laredo, TAMPS (Grant: \$6,292)

**Goal 3: Reduce Land Contamination**



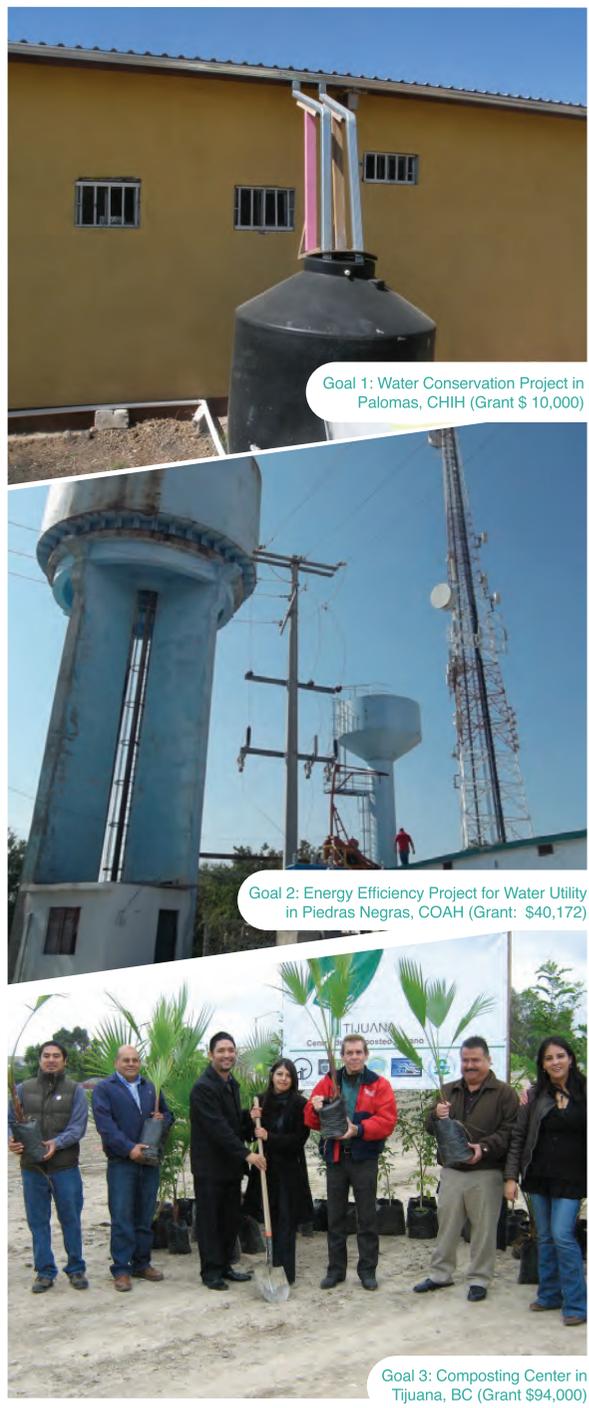
Waste Tire Reuse Technology for Heavy Duty Road Bed Construction in the Landfill Access Road in Brownsville, TX (Grant: \$15,000)

Community Project for the Responsible Management of Organic and Solid Waste in Tecate, BC (Grant: \$24,312)

Land Cover for the Tijuana River Watershed in Tijuana, BC (Grant: \$24,998)

Sediment and Runoff Monitoring in Los Laureles Canyon (Goat Canyon) to support modeling and management in Tijuana, BC (Grant: \$16,000)

Source-based Management of Municipal Solid Waste in Tijuana, BC (Grant: \$25,000)



Goal 1: Water Conservation Project in Palomas, CHIH (Grant \$ 10,000)

Goal 2: Energy Efficiency Project for Water Utility in Piedras Negras, COAH (Grant: \$40,172)

Goal 3: Composting Center in Tijuana, BC (Grant \$94,000)



Collection of Waste Tires from public areas in Cd. Juarez, CHIH (Grant: \$21,123)

Household Hazardous Waste Management and Handling in Cd. Juarez, CHIH (Grant: \$35,000)

Clean up Tire Program in Ojinaga, CHIH (Grant: \$7,139)

Existing and Future Market Assessment for Recycled Rubber from Scrap Tires in Cd. Acuña, Piedras Negras, Matamoros and Reynosa, TAMPS (Grant: \$39,961)

#### Goal 4: Improve Environmental Health



Chemical Management for Arizona Border Schools in Yuma, AZ (Grant: \$51,182)

Transitioning to Reduced-Risk Cotton Pest Management Practices in Mexicali, BC (Grant: \$75,573)

Children's Environmental Health Initiative in Laredo, TX (Grant: \$33,474)

US-Mexico Border Region: An environmental and public health summit in San Diego, CA (Grant: \$40,000)

\*There were no projects selected under Goal 5: Emergency Preparedness and Response

#### Goal 6: Environmental Stewardship



Sustainable Business Practices by establishing Environmental Management Systems in Mexicali and Tijuana, BC (Grant: \$66,576)



Goal 3: Electronic Waste Management and Handling in Reynosa, TAMPS (Grant: \$30,000)



Goal 3: Strengthening the regional capacity of four border states on scrap tire management in Anahuac and Sabinas, NL (Grant: \$35,000)



Goal 4: Pesticide Awareness message in South Texas, Brownsville, TX (Grant \$ 20,000)



# PILLAR 3: STAKEHOLDER COLLABORATION

*To support border communities, BECC builds relationships and partnerships with federal, state and local agencies, international organizations, academia, and the private and public sectors, resulting in environmental initiatives, increased project/program coordination, consistent information exchange and strategy development.*

Throughout 2013, BECC staff gave presentations at more than 50 events, workshops, and training sessions, as well as released 34 BECC Bulletins and 17 press releases. These efforts are just one part of BECC’s outreach strategy of sharing information and collaborating with our stakeholders throughout the region. From hosting meetings with key office holders to presenting the latest studies and publications, BECC works with partners in both private and public sectors to develop new initiatives and build current programs that continue to have a positive impact for border communities.

## 🌱 BECC and NADB Joint Briefing Sessions with US and Mexican Ambassadors

In 2013, BECC and NADB had the opportunity to present the institutions’ programs, services and accomplishments to both the United States Ambassador to Mexico, E. Anthony Wayne and Mexican Ambassador to the US, Eduardo Medina Mora. During the visit to Mexico City, General Manager Giner provided Ambassador Wayne with an update on BECC’s Climate Change Initiative that is being promoted throughout the Mexican border states and has grown with the support of USAID. In addition, Giner, along with Juan Antonio Flores, NADB Associate Director of Public Affairs, provided Ambassador Wayne with an overview of the work done by both institutions, highlighting what has been done during the last 18 months in the area of renewable energy. They noted that, although most of the projects have been developed and funded in the United States, there is great potential for such projects on the Mexican side. The visit with Ambassador Medina was held in San Antonio in the NADB offices and provided a detailed briefing on the accomplishments and project results of both institutions.

## 🌱 Ambassador Negroponte’s Visit to Juarez

US Ambassador John Dimitri Negroponte, who was in El Paso, TX, to speak at the Council of the Americas Conference on US-Mexico Trade, visited with BECC and NADB leadership for a briefing on the progress made by the two sister institutions. The Ambassador’s visit was of special significance because of his role in the deliberations of the NAFTA side agreements that gave rise to both BECC and NADB. Ambassador Negroponte was accompanied by US Consul General in Ciudad Juarez Ian Brownlee, and US Congressman Beto O’Rourke.

## 🌱 CEC Conference

The North American Commission for Environmental Cooperation (CEC) held the 20th Regular Session of its Council in Cabo San Lucas, BC, where leaders and representatives of the environmental ministries of the US, Canada and Mexico met. Among the topics discussed was the analysis of sustainable transportation in North America. BECC General Manager Giner spoke on this sector’s impact on emissions while presenting the results of greenhouse gas inventories that were developed for the Mexican border states.

## 🌱 BECC-NADB Enhance Collaboration with Mexico’s SEMARNAT

Mexico’s Secretary of Environment and Natural Resources, Juan Jose Guerra Abud, hosted a meeting with NADB’s Managing Director, Geronimo Gutierrez, and BECC’s General Manager María Elena Giner to discuss priority areas and possible cooperation opportunities for future projects in upcoming years. In this first meeting between the SEMARNAT Secretary and BECC-NADB leaders, the group tackled areas that with the cooperation from SEMARNAT would be beneficial to the border area. The head of the federal agency expressed the commitment of Mexico’s President Enrique Peña Nieto to economic growth in regards to the environmental sector and stressed the importance of developing environmental infrastructure in meeting economic goals.



Joint Briefing Session with Mexican Ambassador to US



Joint Briefing Session with US Ambassador to Mexico



Ambassador Negroponte's Visit to Cd. Juarez



CEC Conference



### KfW Partnership

BECC continues to be the project executing agency for accompanying measures related to technical assistance for program implementation within the framework of the line of credit from KfW to NADB. BECC is working with KfW to contract a consultant that will assist with the performance of several tasks such as program marketing, climate screening of projects and results measurements, among others. With the assistance of a tender agent paid by KfW, a procurement process is underway to select a firm that will provide various services with the 1 million euro fund granted by KfW for accompanying measures to the line of credit. Selection is expected by early March 2014.



### BECC / COCEF Website

In the Fall 2013, BECC unveiled its new website ([www.becc.org](http://www.becc.org) in English and [www.cocéf.org](http://www.cocéf.org) in Spanish). Designed for greater usability, the updated site allows visitors to view information by project, by state and by sector, as well as learn about the various funding sources available for potential projects. Geared to help new project sponsors learn about the certification process and guide stakeholders to new publications and studies, the site provides valuable information for civic and community partners.



## PILLAR 4: INSTITUTIONAL CAPACITY BUILDING

*BECC's focus on institutional capacity building helps enhance project sustainability, as well as address emerging issues. By strengthening institutional capacities through training and shared information, BECC and its partners develop strategic studies with the goal of identifying needs and project opportunities and improving the effectiveness of infrastructure program investments that could be supported by BECC and NADB.*

In 2013, BECC continued to work with partners on developing capacity-building initiatives, key publications, needs assessments, workshops and trainings such as the solid waste training in Sonora and the energy management workshops held in various cities. Its work in this area strives to increase partners' knowledge and skill base in order to create, develop and manage sustainable and long-term projects and programs. Working in communities and with local, state and federal partners allows BECC to build reliable support networks.

### XX Border Energy Forum

BECC cosponsored the 20th Border Energy Forum in San Antonio, TX which featured guest speakers Mexican Senator Aaron Irizar Lopez, and Texas General Land Office Deputy Commissioner Louis Renaud. Every year since 1994, this forum has provided the latest information regarding energy and its relationship to economic development and the environment. The annual event is an opportunity for public and government officials to discuss how to best meet the border region's energy needs.

Keynote speaker, His Excellency Gary Doer, Canadian Ambassador to the United States, spoke on NAFTA and its impact on the three countries. Participants at this year's forum were able to choose from 14 workshop sessions featuring topics such as solar and wind energy, transportation, natural gas vehicles, energy entrepreneurship, and the outlook on energy reform.



US-Mexico Border Energy Forum Coordinator Soll Sussman, with Ana Arrocha from USAID and Santiago Creuheras Díaz, Director General de Eficiencia Energética e Innovación Tecnológica de la Secretaría de Energía .



Renata Manning-Gbo-gbo and Jessica Hernandez from BECC with David Reazin from EPA and Luis López from CONAGUA





### Solid Waste Training Course

BECC held a training workshop in the state of Sonora for sanitary landfill operators on the necessary skills required to ensure the proper operation and sustainable and efficient management of the landfill. Some of the training courses included updating the San Luis Rio Colorado Landfill's Operating Manual and quantifying the capacity and layout of the landfill to determine its life cycle.

### Energy Management Workshops

BECC held three Energy Management Workshops in Cd. Victoria, TAMPS, Chihuahua, CHIH and El Paso, TX for local water and wastewater utility directors and operations managers. The two-day sessions provided information on energy management, energy efficiency, and how to implement these strategies. The focus of the workshops was to illustrate how the Energy Management Program for Water/Wastewater Utilities can help agencies and municipal organizations address the following:

-  **Reduce energy consumption**
-  **Promote water conservation**
-  **Make clean water more affordable by reducing energy costs**
-  **Identify and facilitate access to funding**
-  **Build local technical capacity through technology transfer activities and training**
-  **Record and measure results**

Solid Waste Training Course  
San Luis Rio Colorado, SON



Energy Management tour to the Bustamante  
Wastewater Plant in El Paso, TX



These workshops were organized jointly by JMAS, the Juarez Municipal Water Utility; CONAGUA, the National Water Commission for Mexico; EPA-Region 6; and El Paso Water Utility.



### Climate Change Initiative

Throughout the year, BECC has worked with stakeholders at the three levels of government in Mexico to further its Climate Change Initiative. From working with the Governor of Tamaulipas to meeting with Baja California's Secretariat of Environmental Protection, the continued support BECC provides in this sector helps the Mexican border states fulfill the federal mandate of the General Climate Change Act.

Under the Climate Change Initiative, BECC maintains close coordination with federal partners, SEMARNAT and the Instituto Nacional de Ecología y Cambio Climático (INECC), Mexico's National Institute of Ecology and Climate Change, and the state governments of Baja California, Sonora, Chihuahua, Coahuila and Tamaulipas in developing State Climate Action Plans (SCAPs) and coordinates with EPA, under the Border 2020 Program, USAID and ClimateWorks in identifying funding resources.

To date, work has been completed on the initiative's preliminary phase, which entailed developing and updating State Level Greenhouse Gas Emission Inventories and Projects for all six border states. BECC concluded the initiative's first phase for Baja California, Sonora and Coahuila, identifying mitigation public policy options. Work on this phase is in progress for the states of Chihuahua and Tamaulipas. Work on the second phase that will develop econometric quantification of mitigation public policies is currently underway for Baja California and Coahuila. In addition, a series of workshops for the development of the SCAPs were held for six Mexican states via simultaneous workshops in eight border cities with approximately 300 participants.



**Baja California / Secretaria de Protección al Ambiente (SPA)**

Preliminary Phase - Completed

1st phase - Completed 2011

2nd phase in progress, due October 2014

**Sonora / Comisión de Ecología y Desarrollo Sustentable (CEDES)**

Preliminary Phase - Completed

1st phase - Completed 2011

2nd phase on hold

**Chihuahua / Secretaria de Desarrollo Urbano y Ecología (SDUE)**

Preliminary Phase - Completed

1st phase in progress, due July 2014

**Coahuila / Secretaria de Medio Ambiente (SMAC)**

Preliminary Phase - Completed

1st phase - Completed 2011

2nd phase in progress, due April 2015

**Nuevo Leon / Secretaria de Desarrollo Sustentable (SDS)**

Preliminary Phase - Completed

**Tamaulipas / Secretaria de Desarrollo Urbano y Medio Ambiente (SDUMA)**

Preliminary Phase - Completed

1st phase in progress, due December 2014



2013

## PROJECTS REPORT



BECC and NADB were established to help address critical environmental and human health conditions in the border region related to the lack of adequate environmental infrastructure. To achieve this objective, BECC works with local, state, federal and private-sector sponsors to develop projects through a process consistent with its Certification Criteria, NADB financing prerequisites, and other applicable regulatory or funding requirements. This well-balanced process evaluates the environmental, technical, social and financial feasibility of the proposed infrastructure investment and seeks long-term project sustainability for the sponsor, investors and intended beneficiaries. Once a project satisfies these elements, BECC and NADB prepare a certification and/or financing proposal for each project to be presented to the Board of Directors for consideration and approval.

In 2013, the Board of Directors approved 19 environmental infrastructure projects for BECC certification and NADB financing. Each of these projects is expected to achieve project-specific outcomes related to improving environmental and human health conditions. Below is a brief description of the eight water and wastewater projects, one air quality project, nine clean and efficient energy projects and one basic urban infrastructure project.

### Drinking Water and Wastewater Infrastructure Reducing the risk of waterborne disease and water pollution

The fundamental objective of water and wastewater projects is to eliminate exposure to unsanitary water conditions, which can have immediate and severe health and environmental impacts. Because of the shared water resources along the border and the movement of goods, people, and services back and forth across the border, the investment to improve this infrastructure in either country also provides the residents in the neighboring country with a lower risk of contagious waterborne diseases. The level of investment and increased access to this infrastructure has been greatly influenced by the availability of grant funding provided through PDAP and BEIF.

Together, the eight water and wastewater projects certified in 2013 are intended to benefit nearly 80,000 border residents, and provide improved water service to more than 13,000 households. These projects will also provide 7,433 new wastewater connections and are anticipated to reduce the approximately 1.77 MGD of untreated wastewater currently polluting community streets, irrigation systems and shared water bodies in the border region.



**Brawley, California**  
**Wastewater System Improvements**  
 Certified on: 03-13-2013  
 Benefited Population: 8,000  
 Total Project Cost: US \$0.53 million  
 Funding Partners: NADB CAP Grant, City of Brawley (City Funds)



**Existing Condition:**  
 The City needs to address the deteriorating conditions of its largest wastewater Lift Station (No. 2) which pumps 30% of the flow to the treatment plant. In addition, the utility also requires access to a reliable back-up power source at Lift Station No. 1.

**Anticipated Outcome:**  
 The purpose of the Project is to eliminate exposure to untreated wastewater discharges, contributing to the reduction of pollution and the risk of waterborne diseases.

**Measurement:**

- Improved wastewater collection service for 2,000 residential connections.
- Eliminate the risk of untreated wastewater spills, which could be as much as 1 MGD.

**San Luis, Arizona**  
**New Water Transmission Line**  
 Certified on: 03-13-2013  
 Benefited Population: 24,000  
 Total Project Cost: US \$0.63 million  
 Funding Partners: NADB CAP Grant, City of San Luis (City Funds)

**Existing Condition:**  
 The City has two separate water distribution systems (WDS). The central WDS is an older system with a capacity of 4 MGD, while the newer East Mesa system has 3 MGD of capacity. The central system operates at capacity during the summer months, and the City has implemented water conservation measures to help meet current water demand. The lack of capacity is also

causing low pressure incidents, which can result in backflows and cross-contamination. The East Mesa system, on the other hand, is currently underutilized and has 90% of its capacity available.

**Anticipated Outcome:**  
 The purpose of the Project is to increase access to potable water service, increase service reliability and reduce incidents of low pressure and/or service interruption, reducing the risks associated with waterborne diseases.

**Measurement:**

- Construction of a new 16-inch diameter PVC water transmission main to interconnect two separate water distribution systems.
- Improve service by increasing access and use of sustainable drinking water services for 6,858 residential service connections.
- Provide sufficient water quantity (7 MGD) to meet current and future demands.

**Sierra Vista, Arizona**  
**Wastewater Collection System Expansion**  
 Certified on: 04-30-2013  
 Benefited Population: 374  
 Total Project Cost: US \$3.96 million  
 Funding Partners: NADB BEIF Grant



**Existing Condition:**  
 Residents of the project area utilize on-site septic tanks with leach fields for wastewater disposal; however the lots located in the Sulger subdivision have aged septic tanks with insufficient property / setbacks for leach fields and experience surface pooling requiring frequent pumping or the replacement of the entire system.

**Anticipated Outcome:**  
 Increase access and use of wastewater collection services and eliminate exposure to untreated or inadequately treated wastewater discharges contributing to the reduction of pollution and the risk of waterborne diseases.



Holtville, California



**Measurement:**

- 154 new residential service connections.
- Eliminate untreated wastewater discharges of approximately 0.029 MGD.



**Holtville, California  
Wastewater Gravity Main (Outfall)  
Replacement**

**Certified on: 05-09-2013**

**Benefited Population: 6,079**

**Total Project Cost: US \$5.7 million**

**Funding Partners: US Department of Agriculture  
Rural Development (USDA-RD)  
Funds, NADB BEIF Grant**

**Existing Condition:**

The existing sanitary sewer outfall main is approximately 84 years old and is in extremely poor condition. The majority of the 49 manholes along the length of the outfall pipeline are extremely deteriorated and unsalvageable. These manholes are susceptible to collapse and are a potential public health and safety hazard.

**Anticipated Outcome:**

Eliminate exposure to untreated or inadequately treated wastewater discharges by replacing a deteriorated pipeline which conveys 100% of the wastewater collected to the existing wastewater treatment facility.

**Measurement:**

- 1,276 benefited residential connections.

**Holtville, California  
Wastewater Collection System Expansion**



**Certified on: 05-09-2013**

**Benefited Population: 80**

**Total Project Cost: US \$0.69 million**

**Funding Partners: USDA-RD Funds, NADB BEIF Grant**

**Existing Condition:**

Undersized and unreliable sanitary sewer collection lines and connections as well as failing on-site treatment systems and wastewater overflows have been reported in the project area.

**Anticipated Outcome:**

Expanding the wastewater collection system to an unserved area within the city, contributing to the reduction of pollution and the risk of waterborne diseases.

**Measurement:**

- Expansion for 23 new residential connections eliminating approximately 8,100 gallons per day (GPD) of untreated or inadequately treated wastewater discharges.



**Santiago, Nuevo Leon**  
**Storm Water Infrastructure Project**  
 Certified on: 05-09-2013  
 Benefited Population: 20,000  
 Total Project Cost: US \$0.37 million  
 Funding Partners: Municipal funds, NADB Cap Grant



**Existing Condition:**

A portion of the community experiences frequent flooding during the rainy season due to the lack of infrastructure to drain the accumulated storm water from the area.

**Anticipated Outcome:**

Increased capacity of storm water infrastructure which will aid in the prevention of stagnant water conditions that create a habitat for disease-transmitting vectors, such as mosquitos.

**Measurement:**

- Infrastructure designed to support 10-year storm events.

**Sunland Park, New Mexico**  
**Drinking Water System Improvements Program-Meter Replacement**  
 Certified on: 05-09-2013  
 Benefited Population: 7,000  
 Total Project Cost: US \$0.75 million  
 Funding Partners: CRRUA funds, NADB CAP Grant



**Existing Condition:**

Camino Real Rural Utility Authority (CRRUA's) existing water meters are antiquated and do not have the capabilities typically associated with modern metering systems. The meters must be read manually and do not have any data storage capabilities, resulting in an inability to monitor water usage patterns or help detect leaks.

**Anticipated Outcome:**

Conserve water by improving the utility's ability to detect leaks, audit water usage, and accurately meter usage at each connection; and by improving the operational efficiency of the utility.

**Measurement:**

- Target for billing efficiency is 85% or greater.
- Save nearly 90 man-hours associated with meter reading activities.

**Nuevo Casas Grandes, Chihuahua**  
**Construction of a Wastewater Collector**  
 Certified on: 07-22-2013  
 Benefited Population: 13,850  
 Total Project Cost: US \$0.50 million  
 Funding Partners: State Funds (Chihuahua Water and Sanitation Board (JCAS), NADB CAP Grant



**Existing Condition:**

A portion of the collected wastewater is conveyed by an undersized collector and sewer lines that tend to overflow through the manholes discharging sewage into the streets.

**Anticipated Outcome:**

Provide access to and/or improve wastewater collection and treatment and eliminate exposure to untreated wastewater discharges, contributing to the reduction of pollution and the risk of waterborne diseases.

**Measurement:**

- Collection and treatment services for 3,980 residential connections.
- Eliminate untreated wastewater spills of up to 0.73 MGD.



San Luis Rio Colorado, Sonora



## Air Quality

**Improve air quality to reduce the risks of respiratory diseases along the border region**

The majority of the air quality projects certified by BECC entail paving roadways to reduce PM<sub>10</sub> exposure in densely populated communities, which poses significant risks for asthma and other respiratory conditions. Supported by the experience gained in successfully developing urban mobility infrastructure projects that contribute to improved air quality, BECC continues to develop specific strategies aimed at promoting other opportunities for emission-reducing infrastructure.

In 2013, BECC certified one air quality project aimed at decreasing harmful emissions caused by vehicle traffic on unpaved roads, and displacing greenhouse gas emissions produced by traditional fossil-fuel-based power generation.

### **San Luis Rio Colorado, Sonora Street Paving and Rehabilitation**

**Certified on: 09-17-2013**

**Benefited Population: 178,380**

**Total Project Cost: US \$14.70 million**

**Funding Partners: Federal, State and Municipal funds, NADB Loan**



#### **Existing Condition:**

Unpaved roads in residential neighborhoods and paving in poor condition in the downtown area.

#### **Anticipated Outcome:**

Improve air quality by increasing street paving coverage and enhancing roadway and traffic infrastructure to promote efficient urban mobility. The Project consists of first - time road paving and rehabilitation of existing roadways and includes the following components:

- 235,200 m<sup>2</sup> (2.53 million ft<sup>2</sup>) or approximately 17.1 km (10.6 miles) of new paving.
- 124,800 m<sup>2</sup> (1.34 million ft<sup>2</sup>) or approximately 7.6 km (4.7 miles) of paving rehabilitation in the downtown area.
- Construction of two bridges to complete new road infrastructure across irrigation canals.

#### **Measurement:**

- Reduction in harmful emissions, including 185.6 metric tons/year of PM<sub>10</sub>.



Tecate, Baja California



Brawley, California



El Centro, California



 **Clean and Efficient Energy**

Reduce demands on fossil fuels and water resources

BECC's growing portfolio of clean and efficient energy projects aims to reduce the demand on traditional fossil-fuel-based energy production while contributing to the displacement of greenhouse gas emissions and other pollutants from power generation by fossil fuels.

The seven solar energy projects certified in 2013 are expected to generate more than 188,155 MWh combined electricity during the first year of operation. Plus 464,400 MWh additional electricity during the first year of operation for the wind energy project that was also approved. Renewable energy projects create an opportunity to generate electricity without the atmospheric emissions generated by fossil-fuel-based power plants.

The anticipated outcome for solar projects is to increase installed capacity of renewable energy resources which will reduce the demand for traditional fossil fuel-based energy production and contribute to the displacement of greenhouse gas emissions and other pollutants of power generation by fossil fuels.

**Brawley, California**  
**IID Community Solar Park**  
 Certified on: 03-13-2013  
 Benefited Population: 6,463  
 Total Project Cost: Reserved Information  
 Funding Partners: Equity, NADB Loan



- Measurement:**
- Installation of 5 MW of new renewable energy generation capacity.
  - Approximately 15,000 MWh of electricity in the first year of operation.
  - Expected displacement of more than 4,174 metric tons/year of CO<sup>2</sup> and 6 metric tons/year of NOx.

**El Centro, California**  
**El Centro Solar Park**  
 Certified on: 04-08-2013  
 Benefited Population: 24,675  
 Total Project Cost: Reserved Information  
 Funding Partners: Equity, NADB Loan



- Measurement:**
- Installation of 20 MW of new renewable energy generation capacity.
  - Approximately more than 50,000 MWh of electricity for the first year of operation.
  - Expected displacement of 13,678 metric tons/year of CO<sup>2</sup> and 21 metric tons/year of NOx.



Saltillo, Coahuila



Ramona, California



Valley Center, California



### Saltillo, Coahuila

#### Lorean Landfill Gas-To-Energy

Certified on: 05-09-2013

Benefited Population: 6,699

Total Project Cost: Reserved Information

Funding Partners: Equity, NADB Loan



#### Anticipated Outcome:

Increase installed capacity for power generation based on renewable energy resources, reducing the demand for traditional fossil fuel-based energy production and contributing to the displacement of greenhouse gas emissions and other pollutants produced by fossil fuel-based processes.

#### Measurement:

- A total of 2.0 MW of new renewable energy generation capacity, with a phased installation of 1.0 MW at startup.
- Expected to displace an estimated 45,015 metric tons/year of CO<sub>2</sub> equivalent.

### Ramona, California

#### Sol Orchard Solar Projects I and II

Certified on: 09-04-2013

Benefited Population: 7,348 (both projects)

Total Project Cost: Reserved Information

Funding Partners: Equity, NADB Loan



#### Measurement:

- Combined installation of 7 MW of new renewable energy generation capacity.
- Approximately 17,481 MWh during the first year of operation.
- Expected to displace more than 4,746 metric tons/year of CO<sub>2</sub> and 7 metric tons/year of NO<sub>x</sub>.

### Valley Center, California

#### Sol Orchard Solar Projects I and II

Certified on: 09-04-2013

Benefited Population: 7,075 (both projects)

Total Project Cost: Reserved Information

Funding Partners: Equity, NADB Loan



#### Measurement:

- Combined installation of 7.5 (2.5-VC1 and 5-VC2) MW of new renewable energy generation capacity.
- Approximately 19,000 MWh during the first year of operation.
- Expected to displace more than 5,203 metric tons/year of CO<sub>2</sub> and 8 metric tons/year of NO<sub>x</sub>.



Brackettville, Texas



Tecate, Baja California



Tecate, Baja California



**Brackettville, Texas**

**Alamo 4 Solar Park**

Certified on: 10-25-2013

Benefited Population: 15,958

Total Project Cost: Reserved Information

Funding Partners: Commercial Banks  
Equity, NADB Loan



**Measurement:**

- Installation of 39.6 MW of new renewable energy generation capacity.
- Approximately 86,674 MWh of electricity during the first year of operation.
- Expected displacement of approximately 52,965 metric tons/year of CO<sup>2</sup>, 91 metric tons/year of sulfur dioxide and 43 metric tons/year of NOx.

**Tecate, Baja California and San Diego County, California**

**Energía Sierra Juarez 1 Wind Energy**

Certified on: 11-27-2013

Benefited Population: 194,788

Total Project Cost: Reserved Information

Funding Partners: Equity, NADB Loan  
and other banks



**Existing Condition:**

The Project provides an opportunity to displace greenhouse gases and other pollutants produced by traditional fossil-fuel based energy generation, while providing the residents of the border region with a safe and reliable energy alternative.

**Measurement:**

- Installation of 155.1 MW of new renewable energy generation capacity.
- Approximately 463.4 GWh of electricity during the first year of operation.
- An expected displacement of approximately 125,809 metric tons/year of CO<sup>2</sup> and 189 metric tons/year of NOx.



Hermosillo, Sonora



## Basic Urban Infrastructure

Encompassing various environmental sectors, implementation of these projects helps reduce water, soil and air pollution that affect the health and the quality of life of local residents.

In 2013, BECC certified one basic urban infrastructure project that addresses several environmental needs, including water and wastewater systems, storm drainage and street paving and will help reduce water, soil and air pollution in Hermosillo, Sonora. Among the activities considered for this project are improvements to the water and wastewater systems, and rehabilitation of storm water inlet structures, paving of 422,691 square meters (m<sup>2</sup>) of unpaved roads, and rehabilitation of 404,307 m<sup>2</sup> of existing roads.

**Hermosillo, Sonora**  
**Basic Urban Infrastructure**  
**Certified on: 05-09-2013**  
**Benefited Population: 784,342**  
**Total Project Cost: Reserved Information**  
**Funding Partners: Federal, State and Municipal funds, NADB loan**



### Impact / Existing Condition:

Unpaved roads in residential neighborhoods; urban traffic congestion; lack of wastewater treatment infrastructure in the communities of Bahia de Kino and Tazajal.

### Anticipated Outcome:

Increase and improve access to basic water and wastewater services, reduce exposure to untreated wastewater discharges in urban areas, improve storm water infrastructure, increase street paving coverage and improve roadway and traffic infrastructure to promote efficient urban mobility.

### Measurement:

- Water- 60 new residential connections and improved service for an estimated 10,600 existing connections.
- Wastewater- 4,500 new residential connections and improved service for an estimated 10,400 existing connections, eliminating approximately 0.45 MGD of untreated or inadequately treated wastewater discharges.
- New wastewater treatment facilities will increase capacity by an estimated 0.80 MGD.
- New storm water structures will improve storm water management at nine intersections.
- New paving is expected to contribute to the reduction of harmful emissions including 252 metric tons/year of PM<sub>10</sub>, while better mobility and less congestion will help reduce vehicle emissions, including an estimated 121 metric tons/year of volatile organic compound (VOC) emissions, 272 metric tons/year of carbon monoxide (CO) emissions and 64 metric tons/year of NOx.



# BINATIONAL MANDATE AND STRUCTURE



BECC, headquartered in Cd. Juarez, Chihuahua is a bi-national institution created in 1993 by the Governments of the United States and Mexico, under a side agreement to the North American Free Trade Agreement (NAFTA). BECC, along with its sister institution NADB, established by the same agreement and headquartered in San Antonio, Texas, are charged with helping to improve the environmental conditions of the US-Mexico border region in order to advance the well-being of residents in both nations. The scope of their mandate and the specific functions of each institution are defined in the agreement between the two governments (the “Charter”), as amended in August 2004.

BECC works in close coordination with NADB and other border stakeholders, including federal, state, and local agencies, the private-sector and the general public, to identify, develop, certify and implement environmental infrastructure projects primarily in six key sectors: Water, Wastewater, Solid Waste Management, Air Quality, Transportation, and Clean and Efficient Energy. BECC focuses on the technical, environmental, and social aspects of project development, while NADB concentrates on project financing and oversight for project implementation. Both entities offer various types of technical assistance to support the development and long-term sustainability of these projects.

The Charter also establishes a single, ten-member Board of Directors to govern the two institutions. The bi-national Board is comprised of three representatives from each government, a representative of a border state from each country, and a representative of the general public who resides in the border region from each country.

## Organization

Under the general direction of the joint BECC-NADB Board of Directors, day-to-day operations at BECC are overseen by a General Manager and a Deputy General Manager. This leadership team creates a model for binational team work which permeates the entire organization.

BECC’s general managers are supported by a staff that is organized into four primary directorates charged with facilitating projects, implementing programs and coordinating initiatives related to its mission throughout the border region.

### BECC’s Management

- Maria Elena Giner, P.E., General Manager
- José Mario Sánchez Soledad, Deputy General Manager

### BECC Directors

-  Projects  
Renata Manning-Gbo-gbo
-  Environmental Programs Development  
Mario Vázquez
-  Administration  
Gloria Meléndez
-  Legal and Communications  
Donald Hobbs



2013

## BECC-NADB BOARD OF DIRECTORS



BECC's Management meeting, San Antonio, TX. November 2013

### MEXICO

-  Secretary of Finance and Public Credit\*  
Dr. Luis Videgaray Caso
-  Secretary of Foreign Relations  
Dr. José Antonio Meade Kuribreña
-  Secretary of the Environment and Natural Resources  
Ing. Juan Jose Guerra Abud
-  Mexican Border State Representative  
Vacant
-  Mexican Border Resident Representative  
Vacant

\*Board Chair 2013

### UNITED STATES

-  Secretary of the Treasury  
Jacob J. Lew
-  Secretary of State  
John F. Kerry
-  Administrator of the Environmental Protection Agency  
Gina McCarthy
-  US Border State Representative  
Lorenzo A. Larrañaga
-  US Border Resident Representative  
Vacant



# BUDGET AND FINANCIAL STATEMENTS

Based on its Charter, BECC's operating budget is funded by contributions from Mexico, through SEMARNAT, and from the United States, through the Department of State. In addition to its operating budget, BECC manages the PDAP, which is funded by EPA's US-Mexico Border program, as well as several environmental management initiatives funded by EPA through the Border 2012/ Border 2020 Program. To offset the resources required for managing these important border programs, EPA provides an administrative subsidy to BECC, which supplements its operating budget.

Seventy-seven percent of BECC's funds are allocated to productive activities developed under the four operating programs, with significant emphasis placed on the Technical Assistance and Certification Programs, which receives 61% of the funds. In contrast, BECC's general support and performance improvement activities require 23% of the total funding.

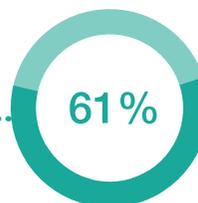
The annual operating budget is developed by BECC's administration and reviewed and approved by the Board of Directors. For fiscal year 2013, the Board authorized a budget of US \$5.21 million, which included US \$4.06 million to support administrative expenses and nearly US \$3.15 million reserved for BECC's Technical Assistance program. The operating budget was subsidized by EPA funds, with US \$960,000 to offset expenses related to administering PDAP and US \$200,000 for Border 2012. Additionally, during 2013, BECC expended US \$1.29 million of EPA funds through PDAP and US \$1.16 through Border 2012 grants to support projects, technical studies, and activities. For 2013, BECC received the NADB contribution of US \$473,806.

## Financial Statements

BECC's consolidated financial statements as of December 31, 2013, were audited by the accounting firm of KPMG Cárdenas Dosal, S.C. in conformity with generally accepted auditing standards in Mexico. A summary of the financial statements is presented next. A copy of the auditor's report with the consolidated financial statements and accompanying notes is available on BECC's website at [www.becc.org](http://www.becc.org).



23% goes to General Support and Performance Improvement Activities



Of Funds Goes to Technical Assistance and Certification Programs



## BORDER ENVIRONMENT COOPERATION COMMISSION

### Statement of Financial Position

As of December 31, 2013 (US \$)

#### Assets

Current Assets	\$	19,111,228
Furniture and equipment (net)	\$	161,013
<b>Total:</b>	<b>\$</b>	<b>19,272,241</b>

#### Liabilities and Fund Balance

Current Liabilities (Total)	\$	246,706
Employee Benefits	\$	19,721
Unrestricted Fund Balance	\$	19,005,814
<b>Total:</b>	<b>\$</b>	<b>19,272,241</b>

### Statement of Activities

Year ended December 31, 2013 (US \$)

#### Revenues

Contribution - US	\$	2,318,802
Contribution - Mexico	\$	1,750,000
Contribution - US EPA	\$	585,000
Contribution - NADB	\$	473,806
<b>Total:</b>	<b>\$</b>	<b>5,127,608</b>

#### Expenses

Salaries and benefits	\$	3,761,287
Travel and transportation expenses	\$	380,714
Technical Assistance and fees	\$	3,101,051
Other expenses	\$	1,328,893
<b>Total:</b>	<b>\$</b>	<b>8,571,945</b>

### Interest Income (Net) **\$ 7,886**

Decrease in unrestricted fund balance	\$	(3,436,451)
Unrestricted fund balance at beginning of year	\$	22,442,265
Unrestricted fund balance at end of year	\$	19,005,814



## **B**ORDER **E**NVIRONMENT **C**OOPERATION **C**OMMISSION

### **BECC's Institutional Vision**

BECC is a strategic, visionary and innovative organization capable of leading the efforts of border communities to accomplish their environmental and public health goals. Our leadership arises from technical excellence, team work and effective program and project management.

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### **BECC's Mission**

To preserve, protect and enhance human health and the environment of the US-Mexico border region, by strengthening cooperation among interested parties and supporting sustainable projects through a transparent binational process in close coordination with NADB, federal, state and local agencies, the private sector, and the general public.





## **MEXICO**

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