



# BECC-NADB Renewable Energy Projects for the Sustainability of the Border Region

## Renewal Energy Projects Certified and Financed 2011 - 2016

### Projects Summary

**Renewal Energy Certified Projects:** 29  
**Direct Benefited Population:** 2,550,301  
**Total Cost:** \$1.890 Billion  
**NADB Financing:** \$1.43 Billion  
**Energy Production Capacity:** 1,766 MW

### Environmental Outcomes Summary

**Year 1 energy generation:** 5,432 GWh/year  
 (Equivalent annual energy for 584,736 households)

### Emissions Avoided:

**CO<sub>2</sub>:** 2.85 million metric tons/year  
 (Equivalent to removing 508,613 passenger vehicles)  
**SO<sub>2</sub>:** 3,415 metric tons/year  
**NO<sub>2</sub>:** 4,511 metric tons/year

### Project Types

- Clean Energy
- Efficient Energy
- Energy transmission/distribution of energy
- Planning and municipal development related to clean and efficient energy



	<b>14</b>	<b>3</b>	
<b>US</b>			
California	9	1	
Arizona	3		
Texas	2	2	
<b>MEXICO</b>	<b>2</b>	<b>8</b>	<b>2</b>
Baja California		1	
Chihuahua	2		1 (Cogeneration)
Coahuila		1	1 (Bio-gas)
Nuevo Leon		2	
Tamaulipas		4	

Renewable energy and energy efficiency projects enhance the opportunities for sustainability in the US - Mexico border region, taking advantage of available solar resources on both sides of the border, as well as significant wind resources in the extreme East and West of the two countries.

In response to this emerging sector, BECC and NADB have worked to establish significant institutional capacity, working with municipal, State and federal governments as well as the private sector, to develop, certify and finance energy sector projects.

In the area of renewable energy and energy efficiency, NADB has approved almost \$1.29 billion dollars in loans for 30 projects. Of the amount approved, just over US\$1.22 billion has been contracted for 28 projects.



Projects - US	Location	Sponsor	Capacity	NADB Fin. (M\$USD)	Cert. Date	CO <sub>2</sub> -eq	NOx	SOx	Direct Benef. Pop.
Global Alternative Fuels, LLC	El Paso, TX	Global Alternative Fuels, LLC	25 MGY Biodiesel	26.65	3/04/2008	10,978	--	--	--
SunPeak Solar LLC	Niland, CA	SunPeak Solar, LLC	23 MW-AC	86.30	6/06/2011	20,000	85	100	22,700
FRV Tucson Solar LLC	Picture Rocks, AZ	FRV Tucson Solar, LLC	20 MW	65.00	11/28/2011	35,000	125	200	10,716
AstroSol, Inc.	Tucson, AZ	AstroSol, Inc.	5.1 MW-AC	13.10	1/13/2012	7,700	28	44	2,363
Los Vientos 1A	Willacy County	Duke Energy Renewables	200 MW	110.00	5/25/2012	406,613	332	694	137,602
Los Vientos 1B			202 MW	110.00	5/25/2012	466,488	381	797	119,852
FRV Bryan	Presidio, TX	Sun Edison, LLC	10 MW	35.00	7/27/2012	16,805	14	29	9,903
Cocotillo Express LLC	El Centro, CA	Pattern Renewables, LP	265.5 MW	110.00	10/10/2012	175,386	264	-	330,000
Parque Solar Davis Monthan AFB	Tucson, AZ	Sun Edison, LLC	12.6 MW-AC	45.00	11/02/2012	16,964	17	11	6,510
Parque Solar IID Community	Brawley, CA	NRG Solar, LLC	5 MW-AC	19.20	3/13/2013	4,174	6	-	6,463
El Centro Solar Park	El Centro, CA	Grupo T-Solar Global, S.A.	20 MW-AC	67.70	4/08/2013	13,678	21	-	24,675
Sol Orchard Proyecto Solar 1	Valley Center, CA	Macquarie Infrastructure Co Solar LLC	2.5 MW-AC	10.10	9/04/2013	-	-	-	7,975
Sol Orchard Proyecto Solar 2			5 MW-AC	20.30	9/04/2013	5,203	8	-	-
Sol Orchard Proyecto Solar 1	Ramona, CA	Macquarie Infrastructure Co Solar LLC	2 MW-AC	8.00	9/04/2013	-	-	-	7,348
Sol Orchard Proyecto Solar 2			5 MW-AC	19.90	9/04/2013	4,746	7	-	-
Parque Solar Alamo 4	Brackettville, TX	DCI Solar Power, LLC	39.6 MW-AC	50.00	10/25/2013	52,965	43	91	15,958
Energía Sierra Juárez 1	Tecate, BC y San Diego Co, CA	IE Nova, S.A.B. de C.V.	155.1 MW-AC	50.00	12/02/2013	125,089	189	-	315,300
SunPeak Solar LLC	Niland, CA	SunPeak Solar, LLC	20	55.00	3/13/2014	12,748	19	-	-
SEPV Imperial	Dixieland, CA				03/07/2016				

Project - Mexico	Location	Sponsor	Capacity	NADB Fin. (M\$USD)	Cert. Date	CO <sub>2</sub> -eq	NOx	SOx	Direct Benef. Pop.
CETSA	Reynosa, Tams.	CETSA	54.0	\$ 51.00	2/09/2012	90,976	189	1,442	46,918
Lorean Landfill Gas to Energy	Saltillo, Coah.	Lorean Energy Group, S.A.P.I. de C.V.	2.0	\$ 6.15	5/09/2013	45,015	-	-	6,699
Energía Sierra Juárez 1	Tecate, BC & San Diego Co, CA	IE Nova, S.A.B. de C.V.	155.1	\$ 50.00	12/02/2013	125,089	189	-	315,300
Ventika	General Bravo, N.L.	TEG Energía, S.A. de C.V.	126.0	\$ 70.00	2/19/2014	303,518	751	1	256,328
Ventika II			126.0	\$ 70.00	2/19/2014	308,431	763	1	260,832
Tres Mesas Wind Energy	Llera de Canales, Tams.	Frontera Renovable, S. de R.L. de C.V.	148.5	\$ 55.00	6/25/2014	200,599	700	1	276,709
Victoria Wind Energy	Güemez, Tams.	Grupo Energía México GEMEX, S.A. de C.V.	49.5	\$ 40.00	2/5/2015	71,165	248	0.4	91,127
La Mesa Wind Energy			49.5	\$ 40.00		72,345	252	0.4	92,639
Los Santos Solar I	Ahumada, Chih.	Los Santos Solar I, S.A.P.I. de C.V.	13.7	\$ 18.10	4/01/2015	17,169	60	0.1	20,433
South WWTP Cogeneration Project	Cd. Juarez, Chih.	Degremont S.A. de C.V.	1.4	\$ 4.10	5/14/15	4	12	3.7	-
EDPR Wind Energy	General Cepeda, Coah.	Eólica de Coahuila, SA de CV	199.5	\$ 95.00	11/06/2015	381,424	-	-	384,147

Red:Solar/Black:Wind/Green:Other