

Solar Purchase Power Agreements

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City of Las Cruces

A Special Work Session will be held at 10:00 a.m. in the City Council Chambers of City Hall to discuss the topic of solar energy. As the City moves forward with discussion and negotiations of an updated franchise agreement with El Paso Electric Company, we anticipate many issues being raised that also relate to the solar market and implications, regulations, and development challenges that may need to be discussed at the same time. This work session has been scheduled to give interested parties, including El Paso Electric, an arena to openly present ideas, concerns and positions on this subject. The City Council and staff will be present to listen to the anticipated varied input to enable a fact based action plan to be put in place to address potential opportunities.

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El Paso Electric

El Paso Electric will be presenting on the Renewable Portfolio Standard mandates. El Paso Electric will also review the solar projects that help to meet the Renewable Portfolio Standards mandates. Rico Gonzales, Director of New Mexico External Affairs and Roberto Favela, Manager Corporate Development will be presenting to the Council.

Renewable Energy



May 6, 2013

EPE & Renewable Energy

- **EPE is committed to supporting the development of renewable energy projects.**
- **Factors that impact EPE's renewable energy decisions include:**
 - Economic impact on customers
 - Ongoing advancements in renewable energy technology
 - Identifying feasible renewable projects for our territory
 - Ability to integrate renewable energy resources into system

State Renewable Portfolio Standards

New Mexico

- Renewable energy credits (REC's) and/or generated energy
 - 10% by 2011
 - 15% by 2015
 - 20% by 2020

- Standards require diverse mix of renewable energy:
 - At minimum 20% solar
 - At minimum 20% wind
 - At minimum 10% other (biomass, geothermal, landfill gas)

Renewable Portfolio Standard-New Mexico

- New Mexico requires that EPE 10% of its current retail energy sales in New Mexico through renewables; escalates to 15% in 2015 and 20% in 2020
 - Must be from diverse sources - at least 20% solar, 20% wind, 10% other and 1.5% renewable distributed generation
- Compliance
 - EPE has historically met requirement by:
 - Purchasing wind RECs from PNM Resources (PNM) and Southwestern Public Service (SPS)
 - Biomass purchase and other small renewable distributed generation purchases
 - Purchase of 5 MWs of solar photovoltaic (PV) from NextEra in Hatch, N.M. (July 2011)
 - Purchase of 20 MWs of solar PV renewable energy from NRG (September 2011)
 - Other solar providers will provide 22 MWs of PV energy in 2012 - SunEdison 12 MW (March 2012) and 10 MW (April 2012)
- Cost Recovery
 - Renewable energy with REC's recovered through fuel clause; REC's without energy recovered through base rates

EPE Renewable Projects



**Hueco Mountain
Wind Ranch**



**Newman & Rio
Grande Solar PV**



**Stanton Tower
Solar Installation**



**Camino Real Landfill
Gas to Energy Facility**



**Wrangler Solar
Facility**



**El Paso Community
College PV**



**Hatch Solar
Energy Center**



**Roadrunner Solar
Electric Facility**



**Las Cruces
Centennial Farm**



**El Chaparral
Solar Farm**

EPE Renewable Projects Owned and PPA

EPE is committed to supporting the development of renewable energy projects.

Project	Type of Technology	Location	Size
Hueco Mountain Wind Ranch	Wind	East of Horizon, TX	1.32 MW
Newman Solar PV #1	Solar Photovoltaic	El Paso, TX	0.064 MW
Rio Grande Solar PV	Solar Photovoltaic	Sunland Park, NM	0.064 MW
Wrangler Substation PV	Concentrated Photovoltaic	East El Paso	0.048 MW
Stanton Tower Building PV	Mono-Crystalline	Downtown El Paso	0.031 MW
El Paso Community College PV	Solar Poly-Crystalline	EPCC Valle Verde	0.014 MW
Van Horn PV (2013)	Solar Photovoltaic	Van Horn, TX	0.020 MW
Sub-Total EPE Owned			1.56 MW
Southwest Environmental Center PV	Solar Photovoltaic	Las Cruces, NM	0.006 MW
Camino Real Landfill Methane Gas	Biomass	Sunland Park, NM	1.2 MW
Hatch Solar Energy Center	Concentrated Photovoltaic	Hatch, NM	5 MW
NRG Solar Roadrunner	Thin-film Photovoltaic	Santa Teresa, NM	20 MW
Las Cruces Centennial Solar Farm	Solar Poly-Crystalline	Las Cruces, NM	12 MW
El Chaparral Solar Farm	Solar Poly-Crystalline	Chaparral, NM	10 MW
Macho Springs Solar (2014)	Thin-film Photovoltaic	Deming, NM	50 MW
Sub-Total PPA			98.2 MW
Customer-Owned Renewable DG			5 MW
Total Renewables			104.76 MW

Interconnection Application Statistics

Average Number of Residential Solar Applications Received per Month for NM

Year	Average Number of applications per Month
2008	4
2009	6
2010	16
2011	28
2012	39

Average KW Capacity for Residential Solar Interconnection Systems at NM

Year	Average PV Facility Capacity (kW)
2008	3.15
2009	3.15
2010	3.46
2011	4.38
2012	4.79

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Steve Fischmann

The purpose of the Monday, May 6 city council work session is to explore opportunities to save the city of Las Cruces and power consumers' money and stimulate job growth in the burgeoning Las Cruces solar installation industry through solar friendly policies.