

NEC
NAVOPACHE ELECTRIC COOPERATIVE

REST.01

March 14, 2011

Mr. Brian Bozzo
Compliance Section Manager
Utilities Division
Arizona Corporation Commission
1200 West Washington Street
Phoenix, Arizona 85007

Re: NEC REST Compliance Report
For January 2010 – December 2010

Dear Mr. Bozzo:

Pursuant to A.A.C R14-2-1812 (A) & (B), enclosed is the Navopache Electric Cooperative, Inc. (NEC) REST Compliance Report covering the time period from January 1, 2010 through December 31, 2010.

If you have any questions do not hesitate to contact me at 928-368-1226.

Sincerely,



Charles R. Moore, P.E.
Manager of Engineering Services

Enclosures

Cc: Dave Plumb, CEO
Michael Curtis, NEC General Counsel

1878 West White Mountain Boulevard • Lakeside, Arizona 85929
(928) 368-5118 • (800) 543-6324 • Fax (928) 368-6038 • www.navopache.org

Navopache Electric Cooperative, Inc.
 REST COMPLIANCE REPORT
 FOR THE YEAR 2010
 R14-2-1812-(A) & (B)

Actual kWh of energy or equivalent obtained from ERER: 1,317,007 kWh

Actual kWh of energy or equivalent obtained from ERER
 normalized to reflect a full year's production: 1,317,007 kWh

kW of generation capacity, disaggregated by technology type:

Utility-owned Grid-tied photovoltaic: 208.0 kW

Utility-owned photovoltaic distributed generation: 76.0 kW

Member-owned renewable distributed generation: 297.6 kW

Solar Thermal System: 700.0 kW

Cents / kWh of energy obtained from ERER:

Utility-owned Grid-tied photovoltaic: \$ 0.16 / kWh

Utility-owned photovoltaic distributed generation: \$ 0.24 / kWh

Member-owned distributed renewable generation: \$ 0.07 / kWh*

*The utility provided incentive is 50% of the installed cost which is not reflected in the cents / kWh of member-owned renewable energy distributed generation systems.

Solar Thermal System: \$ 0.06 / kWh

Cost / kW of generation capacity:

Utility-owned Grid-tied photovoltaic: \$ 6,932.00 / kW

Utility-owned photovoltaic distributed generation: \$ 9,660.00 / kW

Member-owned distributed renewable generation: \$ 3,000.00 / kW*

*The utility provided incentive is 50% of the installed cost, based upon the rate of \$3.00 / watt of nameplate capacity.

Solar Thermal System: \$ 1,666.22 / kW

Annual Renewable Energy Requirement Renewable Energy Credits:

Utility-owned Grid-tied photovoltaic:	271,768 kWh
Solar Thermal System:	<u>765,090 kWh</u>
Total Annual:	1,036,858 kWh

Distributed Renewable Energy Requirement Renewable Energy Credits:

Utility-owned photovoltaic distributed generation:	102,028 kWh
Member-owned photovoltaic distributed generation:	<u>232,090 kWh</u>
Total Distributed:	334,118 kWh

Affected Utility's receipt of Renewable Energy Credits:

(Attachments Included)

Affected Utility's procedures for choosing ERER:

The Navopache Electric Cooperative, Inc., procedure for choosing ERER has been to construct, operate, and own photovoltaic generation resources. Additionally, NEC has implemented a renewable energy incentive program for its members to procure ERER. NEC entered into its agreement with Abengoa Solar Incorporated for ERER when the opportunity was offered to NEC when the utility which originally contracted with Abengoa terminated its agreement. In 2010, NEC executed a PPA with the Solar Utilities Network for Renewable Energy Credits to be derived from a 1 megawatt photovoltaic array to be interconnected with the NEC power system.

Chuck Moore

From: Jim Faulk
Sent: Thursday, February 03, 2011 10:35 AM
To: Chuck Moore; Jim Faulk
Subject: 2010 NEC Owned Solar Production.xls

2010 NEC Owned Solar

Name	Location	KWH	Read Date
Mountian Meadow Trackers	Lakeside	41,602 KWH	1/3/2011
Blue Ridge School	Lakeside	60,426 KWH	1/3/2011
Springerville Office	Springerville	149,627 KWH	1/3/2011
St Johns Substation	St Johns	122,141 KWH	1/3/2011
	Total KWH	373,796 KWH	



NAVAPACHE ELECTRIC COOPERATIVE
2010 CONSUMER RENEWABLE ENERGY kWh - ARIZONA

NAME	DISTRICT	SYSTEM SIZE PV (kW)	WIND (kW)	ACCOUNT #	READ DATE	METER #	READING	NET GREEN KkWh	ON LINE DATE
Ace Hardware East end	Lakeside	8.225		59105	1/11/2011	83535 prod	708 KWH	708	11/9/2010
Ace Hardware West end	Lakeside	8.225		59205	1/11/2011	83533 prod	1308 KWH	1308	11/9/2010
Becker Bruce	Lakeside	7.99		6826600	1/12/2011	11352 prod	8952 KWH	8952	6/1/2010
Bingell David	Lakeside	3.44		86806	1/11/2011	45344 prod	1382 KWH	1382	9/23/2010
Christopher Kengla	Lakeside	5.152		83105	1/11/2011	12818 prod	2389 KWH	2389	8/23/2010
Christophers Garden #1	Lakeside	8.185		266805	1/11/2011	23328 prod	353 KWH	353	9/13/2010
Christophers Garden #2	Lakeside	4.23		266805	1/11/2011	10926 prod	2713 KWH	2713	9/13/2010
Cox Leigh	Lakeside	7.2		731605	1/11/2011	67586 net		15768	*
Dunn Daniel	Lakeside	7.65		7253200	1/11/2011	35203 prod	3286 KWH	3286	9/30/2010
Ellsworth Ethan	Lakeside	10.8		7449100	1/25/2011	18615 prod	1219 KWH	1219	12/15/2010
Gore Rhoda	Lakeside	8.376		1066606	1/17/2011	42303 prod	23947 KWH	23947	8/3/2009
Lamb Gary	Lakeside	2.46		OFF GRID	1/25/2011	17445 prod	2948 KWH	2948	6/17/2010
Ludwig Werner	Lakeside	2.5		3829005	1/11/2011	67595 net		5475	*
Schurman Stan	Lakeside	1.0		159006	1/11/2011	67616 net		2190	*
Smith Wayne	Lakeside	5.32		356108	2/1/2011	24116 prod	10909 KWH	10909	10/5/2009
Vernon Elem. School	Lakeside	30.03		3759905	1/4/2011	83509 prod	11655 KWH	11655	10/7/2010
Weinick John	Lakeside	8.288		7327300	1/25/2011	41573 prod	1617 KWH	1617	12/2/2010
Woodworth Bart	Lakeside	2.3		344405	1/4/2011	67612 net		5037	*
Burrows Dave	Overgaard	5.6		7110201	12/20/2010	83409 prod	162 KWH	250	11/18/2010
Chenevey Richard	Overgaard	3.01		6988500	12/20/2010	19755 prod	3938 KWH	3938	4/21/2010
Crandell Gary	Overgaard	5.4		3688307	12/20/2010	83429 prod	178 KWH	331	12/2/2010
Gilkey William	Overgaard	1.6		1596005	12/20/2010	22273 prod	2823 KWH	2823	10/8/2009
Golson Joseph	Overgaard	4.725		OFF GRID	12/20/2010	14707 prod	29KWH	27	12/2/2010
Hill Douglas	Overgaard	4.6		7307900	1/11/2011	23820 prod	384 KWH	384	12/20/2010
Mulder Theo	Overgaard	14.0		1471305	1/11/2011	67622 net		30660	*
Owens Roger	Overgaard	4.05		OFF GRID	12/20/2010	82457 prod	3234 KWH	3234	12/28/2009
Stapczynski Joseph	Overgaard	1.836		6189000	12/20/2010	17253 prod	413 KWH	413	10/26/2010
Williams L Gary	Overgaard	1.84		6606400	12/20/2010	17249 prod	9568 KWH	9568	3/31/2009
Cronkrite Ronald #1	Springerville	4.1		3955205	12/28/2010	82170 prod	564 KWH	564	4/14/2010
Cronkrite Ronald #2	Springerville	8.2		3955205	12/28/2010	83448 prod	2171 KWH	2171	4/14/2010
Crosby Laverl	Springerville	4.12	1.0	2482305	1/4/2011	15301 prod	5118 KWH	4889	4/22/2010
Eagar Middle School	Springerville	12.24		2657905	1/4/2011	83512 prod	962 KWH	962	12/7/2010
Hartman Jess	Springerville	4.05		2300306	1/12/2011	17253 prod	955 KWH	1927	8/5/2010



NAVAPACHE ELECTRIC COOPERATIVE
2010 CONSUMER RENEWABLE ENERGY kWh - ARIZONA

Holaway David	Springerville	5.04		1/4/2011	47994 prod.	1882 KWH	3673	*
Husted Jack	Springerville	4.83	1.0	1/4/2011	21528 prod.	4350 KWH	2828	8/5/2010
Johnson Cliff	Springerville	7.2		1/4/2011	67630 net		15768	*
Johnson Cliff	Springerville		2.4	1/4/2011	36471 prod.	2415 KWH	2415	8/3/2009
Kerger Jay	Springerville	5.04			83411 prod.		91	12/28/2010
Knight Roxanne	Springerville	4.05		1/5/2011	82459 prod.	1019 KWH	1019	12/30/2009
McClaeren Samuel	Springerville	2.52			83403 prod.		242	12/14/2010
Oddonetto Peter	Springerville	7.2		1/5/2011	83469 net		15768	*
Schofield Steven	Springerville	6.2		1/4/2011	50649 prod.	575 KWH	374	12/16/2010
Stroud Michael	Springerville	2.88		1/4/2011	23241 prod.	5097 KWH	5097	11/19/2009
Wilkins Phelps	Springerville	6.3		1/4/2011	22218 prod.	11612 KWH	11612	11/12/2009
Dodds John	St Johns	4.928		12/28/2010	36985 prod.	5603 KWH	5603	5/5/2010
Harris Micah	St Johns	4.05	0.9		21726 prod.		445	12/16/2010
Rudolph Cynthia	St Johns	2.16	0.9	12/22/2010	67598 net		1438	
St Johns JR High	St Johns	24.5		12/22/2010	83511 prod.	1720 KWH	1720	12/7/2010
Totals		297.64	6.2				232,090	

* Calculated kWh Production

11500 West 13th Avenue, Lakewood, CO 80215
Phone: (303) 928-8500 Fax: (303) 928-8510

Certificate of Transfer of EPS Credits

Certificate No. IST/NEC – 015
Date of REC generation: January 1 through March 31, 2010

Pursuant to the September 19th, 2001 Environmental Portfolio Standard Sales Agreement, Abengoa Solar Inc (ASI) transfers 159,951 kWh of EPS Credits to Navopache Electric Cooperative, Inc. to assist Navopache in meeting its portfolio requirements under the Arizona Corporation Commission's Environmental Portfolio Standard adopted in Decision Nos. 63364 and 63486.

1. ASI certifies that it derived the EPS credits from the operation of the solar thermal system at the Federal Correctional Institution in Phoenix, AZ. This system uses solar energy to displace the consumption of electricity used to heat hot water at the facility. The delivery of solar energy is measured using redundant metering equipment in a manner approved by the US Department of Justice and the National Renewable Energy Laboratory.
2. The above solar system was installed in 1999. Hence, the facility is eligible for the application of an early installation credit of 0.5.
3. Applying the EPS rules, 30% of the installed solar system has Arizona content materials. Such content generates an extra credit multiplier of $0.5 \times 0.3 = 0.15$
4. ASI further certifies that it has title to the EPS credits proposed for transfer to Navopache and that such credits have not previously expired and have not be transferred to any other entity.
5. The sale of these credits at the rate of \$0.06 per kWh is governed by the Agreement between Industrial Solar Technology (now Abengoa Solar Inc) and Navopache dated November 6, 2006. The invoice is payable on a net 30 basis.

Amount due = $0.06 \times 159,951 \text{ kWh} =$ \$9597.06

Attest to:

E. Kenneth May
Division Director
Abengoa Solar Inc
Date: May 31, 2010

253.91

Signature:



ABENGOA SOLAR INC

11500 West 13th Avenue, Lakewood, CO 80215
Phone: (303) 928-8500 Fax: (303) 928-8510

Certificate of Transfer of EPS Credits

Certificate No. IST/NEC – 016
Date of REC generation: April 30 – June 30, 2010

Pursuant to the September 19th, 2001 Environmental Portfolio Standard Sales Agreement, Abengoa Solar Inc (ASI) transfers 159,951 kWh of EPS Credits to Navopache Electric Cooperative, Inc. to assist Navopache in meeting its portfolio requirements under the Arizona Corporation Commission's Environmental Portfolio Standard adopted in Decision Nos. 63364 and 63486.

1. ASI certifies that it derived the EPS credits from the operation of the solar thermal system at the Federal Correctional Institution in Phoenix, AZ. This system uses solar energy to displace the consumption of electricity used to heat hot water at the facility. The delivery of solar energy is measured using redundant metering equipment in a manner approved by the US Department of Justice and the National Renewable Energy Laboratory.
2. The above solar system was installed in 1999. Hence, the facility is eligible for the application of an early installation credit of 0.5.
3. Applying the EPS rules, 30% of the installed solar system has Arizona content materials. Such content generates an extra credit multiplier of $0.5 \times 0.3 = 0.15$
4. ASI further certifies that it has title to the EPS credits proposed for transfer to Navopache and that such credits have not previously expired and have not be transferred to any other entity.
5. The sale of these credits at the rate of \$0.06 per kWh is governed by the Agreement between Industrial Solar Technology (now Abengoa Solar Inc) and Navopache dated November 6, 2006. The invoice is payable on a net 30 basis.

Amount due = $0.06 \times 268,437 \text{ kWh} =$ \$16,106.22

Attest to:

E. Kenneth May
Division Director
Abengoa Solar Inc
Date: May 31, 2010

Signature:



NEC
7/12/10

11500 West 13th Avenue, Lakewood, CO 80215
Phone: (303) 928-8500 Fax: (303) 928-8510

Certificate of Transfer of EPS Credits

Certificate No. IST/NEC – 017

Date of REC generation: July – September, 2010

Pursuant to the September 19th, 2001 Environmental Portfolio Standard Sales Agreement, Abengoa Solar Inc (ASI) transfers 173,825 kWh of EPS Credits to Navopache Electric Cooperative, Inc. to assist Navopache in meeting its portfolio requirements under the Arizona Corporation Commission's Environmental Portfolio Standard adopted in Decision Nos. 63364 and 63486.

1. ASI certifies that it derived the EPS credits from the operation of the solar thermal system at the Federal Correctional Institution in Phoenix, AZ. This system uses solar energy to displace the consumption of electricity used to heat hot water at the facility. The delivery of solar energy is measured using redundant metering equipment in a manner approved by the US Department of Justice and the National Renewable Energy Laboratory.
2. The above solar system was installed in 1999. Hence, the facility is eligible for the application of an early installation credit of 0.5.
3. Applying the EPS rules, 30% of the installed solar system has Arizona content materials. Such content generates an extra credit multiplier of $0.5 \times 0.3 = 0.15$
4. ASI further certifies that it has title to the EPS credits proposed for transfer to Navopache and that such credits have not previously expired and have not be transferred to any other entity.
5. The sale of these credits at the rate of \$0.06 per kWh is governed by the Agreement between Industrial Solar Technology (now Abengoa Solar Inc) and Navopache dated November 6, 2006. The invoice is payable on a net 30 basis.

Amount due = $\$0.06/\text{kWh} \times 173,825 \text{ kWh} = \$10,429.50$

Attest to:

E. Kenneth May
Division Director
Abengoa Solar Inc
Date: October 18, 2010

Signature:



per
10/25/10

ABENGOA SOLAR INC

11500 West 13th Avenue, Lakewood, CO 80215
Phone: (303) 928-8500 Fax: (303) 928-8510

Certificate of Transfer of EPS Credits

Certificate No. IST/NEC – 018

Date of REC generation: October – December, 2010

Pursuant to the September 19th, 2001 Environmental Portfolio Standard Sales Agreement, Abengoa Solar Inc (ASI) transfers 173,825 kWh of EPS Credits to Navopache Electric Cooperative, Inc. to assist Navopache in meeting its portfolio requirements under the Arizona Corporation Commission's Environmental Portfolio Standard adopted in Decision Nos. 63364 and 63486.

1. ASI certifies that it derived the EPS credits from the operation of the solar thermal system at the Federal Correctional Institution in Phoenix, AZ. This system uses solar energy to displace the consumption of electricity used to heat hot water at the facility. The delivery of solar energy is measured using redundant metering equipment in a manner approved by the US Department of Justice and the National Renewable Energy Laboratory.
2. The above solar system was installed in 1999. Hence, the facility is eligible for the application of an early installation credit of 0.5.
3. Applying the EPS rules, 30% of the installed solar system has Arizona content materials. Such content generates an extra credit multiplier of $0.5 \times 0.3 = 0.15$
4. ASI further certifies that it has title to the EPS credits proposed for transfer to Navopache and that such credits have not previously expired and have not be transferred to any other entity.
5. The sale of these credits at the rate of \$0.06 per kWh is governed by the Agreement between Industrial Solar Technology (now Abengoa Solar Inc) and Navopache dated November 6, 2006. The invoice is payable on a net 30 basis.

Amount due = $\$0.06/\text{kWh} \times 162,877 \text{ kWh} = \$9,772.62$

253.91

Attest to:

E. Kenneth May
Division Director
Abengoa Solar Inc
Date: December 31, 2010

Signature:

E. Kenneth May

Per 4/10/11