BOARD OF DIRECTORS

FROM: BRUCE BUEL

DATE: March 4, 2009

AGENDA ITEM E-5 MARCH 11, 2009

OFFICE STRUCTURAL REPAIRS AND SOLAR RETROFIT

ITEM

TO:

Consider options to address office structural repairs and solar retrofit [PROVIDE POLICY GUIDANCE].

BACKGROUND

In November 2008, the District office building at 148 South Wilson Street was fumigated to eradicate termites and all water damaged exterior wood members were repaired and sealed. The next step is to paint the entire exterior of the office building, at an estimated cost of \$10,000, to ensure that the entire exterior of the building is sealed and waterproof. However, before this work proceeds, staff needs Board direction on two issues previously discussed by the Board.

Structural Repairs

The first issue is whether or not to extend the existing metal roofing to cover the existing rafters completely at the north and west patios and replace the rafter tails with a man made simulated wood project to reduce the need for future maintenance. The estimated cost of this work, based on an estimate obtained in September 2007, was approximately \$82,000.

Alternately, the existing metal roofing could be extended to cover the existing rafters completely at the north and west patios and the rafter tails could be repainted on a more frequent basis to reduce the need for more extensive repairs in the future. The estimated cost of this approach is approximately \$30,000 to extend the roof and then \$5000 every five years to repaint the rafter tails as well as all other exterior wood members.

A third alternative is to not extend the existing metal roof to cover the existing rafters at the north and west patios and just repaint all of the exposed wood rafters as well as all other exterior wood members every five years at an estimated cost of \$6000.

Solar Power

The second issue is whether or not to retrofit the existing building with a grid connected solar panel system to generate electricity to partially power the building. Staff contacted REC Solar Inc., a San Luis Obispo based company, and obtained the attached proposals.

The initial cost, including applicable rebates, would be approximately \$97,000 for a system that would provide a 96.5% total kWh offset and have a payback period of 15.8 years. Alternatively, a \$70,000 initial cost system would provide a 71.3% total kWh offset and also have a payback period of 15.8 years. One factor that significantly impacts the initial cost of the system to the District is that the District cannot take advantage of state or federal tax credits.

Another consideration is that the trees on the west side of the office would need to be removed to maximize the efficiency of the solar panels.

Item E-5 March 11, 2009

FISCAL IMPACT

The FY 08-09 Budget includes \$80,000 in the Administration Fund (Fund #110) for office structural repairs and painting. To date, the District has spent \$9334 on the fumigation and repair work performed by Terminix.

RECOMMENDATION

Staff recommends that your Honorable Board discuss the two issues and provide staff with direction on how to proceed with the structural repairs and whether the Board is interested in further pursuing retrofitting the District office with solar panels.

ATTACHMENT

REC Solar Proposals

T:\BOARD MATTERS\BOARD MEETINGS\BOARD LETTER\2009\Office Structural Repairs.doc



Preliminary Proposal for NCSD

148 South Wilson St Nipomo, CA 93444



Savings for today. Energy forever.

ENGINEER	DRAFTER	DESCRIPTION				
YURYSTA	5. JENKINS	PHOTOVOLTAIC SYSTEM	PR	OPOSED SOLAR AR NIPOMO COMMUNITY SERVICES DISTRICT 15.4 KW DC	RAY	
	REC SCM 220 S	OLAR MODULES (5) STRINGS OF (14				
	SYSTEM INFO TILT: FLUSH N AZIMUTH: 228 DEC RACKING: SOLARA	MOUNT 5 TRUE K	SYSTEM EQUIP (70) REC SOLA (70) X (.220KW	MENT R 220 WATT MODULES /) = 15.4 KW DC	CC DETAILS SI PENDING FULL ENG	DINCEPTUAL DESIGN UBJECT TO CHANGE GINEERING DESIGN
DECE	REC SOLAR, INC.	CUSTOMER APPR	OVAL:	NCSD		REV: 0
	CA CL# 750184 775 Fie Sap Luis Obis	TO Lane, Suite 200 PLANS REVIEWE);	148 S. WILSON STREET	LAYOUT	01 26 2000
SOLAR	Phone (888)657-6527 F	ax (805)528-9701 BOM REVIEWED:		NIPOMO, CA 93444		01.26.2009

Copy of document found at www.NoNewWipTax.com

February 19, 2009



Ryan Work Area Sales Manager (805) 440-6299

Solar System Owner

Nipomo Community Services Di Nipomo Community Services Di 148 South Wilson Street Nipomo, CA 93444

Solar System Size

\$7.57 Cost per DC Watt

15,400 Watts DC Solar Electric System

13,162 Watts AC Solar Electric System

Class	Item	Description	Qty.		Amount
Complete Turn-Key	System Cost to Inc	clude the Following Items:	1	\$	116,600.00
Calas Danala					
Solar Panels	REC 220	REC Group 220-Watt / 14	05.115 804.70		
Inverters		_ 10	a sitis core		
	SB7000US(240V)	SMA 7000-Watt, 240VAC	2		
Monitoring					
Destring	REC003	Energy Recommerce Online	1		
Kacking	PACKING	PEC Solar SolaPakt	6		
Other Expenses	NACKING	REC SUAT SUARAK	8		
	MISC ELEC	Misc Electrical Equipment	1		
	EQ RENT	Equipment Rental	1		
	S&H	Shipping and Handling	1		
Labor Components	CENLAR	Conoral Labor			
	GEN LAB	Electrical Labor	1		
	D&E	Design and Engineering	ĩ		
	REC WARRANTY	Installation (10 yr)	1		
Solar Administration					
	REBATE	Rebate Administration	1		
	INTERCON CALES TAY	Interconnection	1		
	PERMITTING	Permitting	1		
			-		
			Total to REC Solar	T	\$116,600
Rebate is an estimate	e only.		State Rebate		24,350

 *Rebate is an estimate only.
 State Rebate*
 24,350

 **These system costs are a preliminary estimate only. Final system cost will be determined after detailed engineering has been conducted by REC Solar.
 Tax Credits
 0

 Net System Cost**
 \$96,850

GENERAL DISCLAIMER: All quotations are valid for (30) days from the date of the quotation unless a reduction of rebate occurs within the 30 day period. Design, permitting, installation, sales tax, utility interconnection and rebate paperwork as detailed in the "General Contract for Services" are included in the quoted system cost. The total price paid to Contractor is listed as "Total to REC Solar." "Net System Cost" is realized after tax returns are filed and related tax credits are applied by the IRS.

TAX/FINANCIAL DISCLAIMER: The tax information on this page is intended for discussion purposes only and should not be construed as tax advice. All applicable federal tax credits are estimates. Actual tax credits will be based on customer's financial situation. Customers applying for the commercial tax credit should consult with a tax professional to determine eligibility. We recommend that you contact an accountant or tax attorney for any specific financial advice.



System Performance Analysis Using Net Metering

Nipomo Community Services District Site Location: Nipomo Community Services District System Size: Commercial Rate CA, Pacific Gas and Electric, A1 Mounting Azimut

Site Location:NipomoSystem Size:15400 DC WattsTilt Angle:4 in 12 (19 Deg)Mounting Azlmuth:214 - 236(South West)

First Year Savings: \$3,971

96.5% Total kWh Offset

Proposed Utility Rate: CA, Pacific Gas and Electric, A1

Electricity Savings per kWh from Solar*: \$0.167



Month	Est. Build	ing Usage	Est. System Production	Monthly Solar Savings
1. 2 A. A.	Before (kWh)	After (kWh)	kwh	
January	1,720	354	1,366	\$182
February	2,080	622	1,458	\$195
March	1,720	-252	1,972	\$230
April	1,760	-468	2,228	\$235
May	2,120	-329	2,449	\$408
June	2,480	42	2,438	\$477
July	2,240	-351	2,591	\$431
August	2,520	48	2,472	\$485
September	2,360	247	2,113	\$454
October	2,160	293	1,867	\$416
November	1,680	223	1,457	\$224
December TOTAL	1,760 24,600	421 851	1,339 23,749	\$235 \$3,971

Annual Solar Production (kWh): Conservative calculation using 25 yr. Solar chart data,	23,749
panel, and Inverter specifications	1
Estimated 1st Year Electric Bill Savings: Estimated by calculating your past electricity usage and the amount we will offset from your bill	\$3,971
Cost per kWh of Solar Electricity: Calculated by dividing post-cash Incentive cost of system and expected power generation	\$0.165
Credit Given by Utility for Electricity: Value of Actual kWh Produced by Solar Electric System	\$0.167
Payback (Payback assuming 6% rate escalation in savings calculation)	15.8 Years

*The first year energy savings and any future energy savings are estimates only. Savings may vary based on solar radiation levels, soiling or any factors that affect solar system production. Actual savings may also be different from estimated savings as a result of electric rate changes.



CASH FLOW AND INCOME STATEMENT

Nipomo Community Services District Nipomo Community Services District CA, Pacific Gas and Electric, A1

										_										
Nominal Return Analysis 25-Ye	ears	Pi	urchase Terms	1	ਾ	ax Credits		-	0.001	Fa	cility Use		-	100.00						
Pebate Payments 20.1%	(\$116,600)		Pre-Rebate Cost	\$116,600 Reduce Bacic		Commercial Fe	deral Tax Cred	11	0.0%		% of Facility C	sage Linked to	Business	100.0%						
Net Tax Credits Provided (1) 0.0%	424,550		Cost after Rebate	\$92,250		State Energy C	redit - Years		5		System osera	Line		23						
Tax Shield from Depreciation 0.0%			Rehate Tayabla	00		State Energy C	redit - Cap	1	\$0	In	verter Replac	ement		Contraction of the						
Cost After Rebate & Tay Credits	(\$95.850)		NODULE TUXUDIE			State Energy C	redit - Actual	-	02	AC	Wattage Ratin	0 * \$ 25 at vr	15	(\$3.500)						
Energy Savings for 25 yrs	\$203,133	Fi	nencing Terms			State Lifely C	eute Actual		40		. Wattage Rath	g dies de fi		133,300/						
Financing Cost (Fees/Interest)	\$0		Original Principal	\$0	E	onus Deprecia	tion	122	0%	M	intenance Co	st Inputs								
Operational Maintenance & Inverter	(\$3,500)		Leverage	0%							(Percentage o	f AC system sl	ze per year)	0.25%						
Net Savings	\$199,633		Financing Costs	0.00%	F	ebate					(Year 20 - Lab	or Rate per kW)	35						
Net System (Cost) / Benefit	\$102,783		Interest Rate	0.00%		Total Projected	Rebate Paym	ent	\$0		(Year 20 - Lab	or Hours per k	W)	0.5						
(1) Total Tax Credits Less Credits Used for System Income. I	includes OR pass-through.		Term (Years) Year Loan Paid off Semi-annual Payment	0		Total Projected PBI Cap	Rebate Paymo	ent after tax	\$0 None		(Year 20 - Mat System Size (k	WAC @ PTC)	(W)	150 13.16						
1st Year Cash Flow			Total Interest expense	\$0		nergy Savings														
Initial Capital Provided / (Required) Year 0	(\$92,250)		Annual loan payment	\$0		Included In Ta	xable Inc.7	1911	Yes											
Net Cash Provided / (Required) Year 1	\$3,971	1.25				Rate Escalatio	on		6.0%											
		M	arginal Tax Rate	25 00%		Annual Syster	n Degradation	(%)	0.50%											
DE Vers TPP	E 5204		Federal	8.00%		Average ener	gy savings	-	\$0,125											
23-fear IKR	5.53%		State	8.00%		First year ene	irgy savings	L	\$3,9/1				50 S 8 S		and the second second	the factory and have a	in the second			
			Ellective lax kate	40.2%		Discount Pate		1	6 504	Ast	sumption: The	Purchaser has ta	xable income to ta	ke advantage of ta	x credits / write-o	ormance may yar	wnersnip.			
						Discount Race			0.0 14		Line and the second sec	ada garanda pic e	sumated based of	nong contri weacha	r dato actuor perio	ormance may runy				
Taxable Income Statement	Year 0	EALCE	2	04 03	e0	0	03	10	=	0	0	12 #0	*0	\$0	40	10 \$0	*0	10	\$0	\$0
Energy Savings		PALSE	0	\$0 \$0	0	0	30	50	50	0	30	0	0	0	0	0	0	0	0	0
State Tax Credit		o	0	0 0	0			•	•	•	•				•					
SREC Income		0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL REVENUE	Contraction of the second	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Inverter Replacement				12					-			-			(3,500)					
Maintenance Expense		0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL EXPENSES	- is all the first		0	0 0	0	0	0	0	0	0	0	0	0	0	13 5001	0		0	0	0
Earnings Before Taxes (EBT)	TO SHORE IN	Ö	0	0 0	0	0	0	0	0	0	0	Ő	0	0	(3,500)	Ö	0	0	0	0
	THE STREET																			
Tax Credits																				
Federal Tax Credits	and the second second	••••			in the second second										1					
Total Tax Credits Available	Service States							· · ·			<u> </u>									
Cash Flow Statement	Year 0	1. 1. 1.	2 3		5	6	1	8	9 2 4 5	10	11	12	13	14	15	16	17	- 18	19	20
System Purchase Price	(\$92,250)	All and a second second	C. Contraction of Contract	the second second	Provide the second s										a second					Contraction of the local distance of the loc
Inverter Replacement										1.1	572				(3,500)	2.2		1.2		
Rebate		FALSE	0	0 0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Federal Tax Credit		- 0	0	0 0	0															
State Tax Credit Tax (Cost)		0	0	0 0	0	0	0													
Income Tax Savings / (Cost)		õ	õ	õ õ	ō	o	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Energy Savings		3,971	4,190 4,	420 4,663	4,920	5,190	5,476	5,777	6,094	6,430	6,783	7,156	7,550	7,965	8,403	8,865	9,353	9,867	10,410	10,983
Maintenance Costs	and a state a	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Net Cash Flow	\$ (92,250) \$	3,971	\$ 4,190 \$ 4,4	120 \$ 4,663	\$ 4,920	\$ 5,190 \$	5,476	\$ 5,777 \$	6,094	6,430	6,783 \$	7,156	7,550	7,965 \$	4,903	8,865	\$ 9,353	\$ 9,867	\$ 10,410	\$ 10,983
Cumulative Cash Flow	(\$92,250)	(\$88,279)	(\$84,089) (\$79,	669) (\$75,006)	(\$70,087)	(\$64,897)	(\$59,421)	(\$53,645)	(\$47,550)	(\$41,121)	(\$34,337)	(\$27,181)	(\$19,631)	(\$11,666)	(\$6,763)	\$2,103	\$11,456	\$21,323	\$31,733	\$42,716

This Information is intended for discussion purposes only and should not be construed as tax or financial advice. We recommend that you contact an accountant or tax attorney for any specific financial advice.

.

ž



•



Return Analysis of Electricity Savings

NIpomo Community Services District Nipomo Community Services District CA, Pacific Gas and Electric, A1

COSt after Re	Dates and Tax C	realts:	
Initial Investment /	System Cost	(\$116,600)	
State Ca	sh Payments*:	\$24,350	
Est.	Tax on Rebate:	\$0	
Fede	eral Tax Credit:	\$0	
St	ate Tax Credit:	\$0	
5-Yr MACRS	Tax Savings**:	\$0	
6-Year Net	System Cost:	(\$106,639)	
Cash Flow	w Return Analys	is:	
Internal Ra	ate of Return:	5.53%	
Cost of Power	Current	Voar 10	Voor 25
Average Litility Cost / kWh:	\$0.167	\$0.282	\$0.677
Solar Electricity / kWh:	\$0.165	\$0.165	\$0.165
Savings per kWh:	\$0.002	\$0.118	\$0.512
14 000	Nora C	X 10	¥ 25
Nominal* RO1:	Year 6	Year 10	Year 25
Est. Annual Elec.Savings	\$5,190	\$6,430	\$14,354
st. Actual Return on Net System Cost	4.9%	6.0%	13.5%
Est. Cumulative Elec. Savings	\$27,353	\$51,129	\$203,133
Cumulative ROI on Net System Cost	25.7%	47.9%	190.5%

Savings from Solar over the 25 Year Lifetime of the System



*State Cash Payments: Taxable. Includes utility rebates, Oregon pass-through and any other cash incentives

**Depreciable Basis: \$92,250

No IRS Rebate Taxable Ruling: State cash rebates are to be considered taxable income

Average Utility Cost per kWh: Average cost of utility power offset by solar electricity

Solar Electricity / kWh: I he total lifetime costs, including maintenance, of the solar system divided by the lifetime kWh production of the system. The production includes 1/2% per vear loss of output due to aging.

Annual Business Rate Escalation: 6.0%

Based on an Energy Information Administration 1970-2005 Trend Analysis

> *Nominal: Describes money without the effects of inflation or the time value of money built in. Today's dollars.

> > This information Brintende® to chizowskien purposed being and should hot be constituted as tax or financial advice. We recommend that you contact an accountant or tax attorney for any specific financial advice.



ENVIRONMENTAL REVIEW

Name:	Nipor	no Community Services District	Date	2/19/2009
System Descr	iption:	15,400 DC Watt, Utility Inte	eractive Photovo	oltaic System
This sheet quantif electricity made fr	ies some of t om the burn	he environmental benefits that your s ing of fuels.	ystem will provide	by replacing
LIFETIME KWH The amount of electric lifetime	I PRODUCT	TON power system will produce over its 25-year	Line a:	559,434
BARRELS OF O The number of barrels that your system will	IL OFFSET s of oil required produce in its 2	BY YOUR SYSTEM, LIFETIME to generate the same amount of electricity 5-year lifetime.	= a. x .00203	1,136
CAR MILES NO Using electricity generativities that have the	T DRIVEN, rated from foss a most significa	LIFETIME Il fuels and driving cars are the two personal ant environmental impact.	= a. x 1.7755	992,995
ACID RAIN EM: Generating electricity Oxides, primary cause	ISSIONS R from fossil fuel es of acid rain, i	EDUCTION, Ibs s also releases Sulfur Oxides and Nitrogen nto the air. Acid rain damages lakes,	= a. x 0.0075	4,196

SMOG EMISSIONS REDUCTION, Ibs Nitrogen Oxides are a key contributor to the formation of ground level ozone, a major component of smoo. Ozone irritates the eyes, and appravates respiratory	= a. x 0.0036	2,014
problems. It is our most widespread and intractable urban air pollution problem.		
GREENHOUSE GAS REDUCTION, Ibs Carbon dioxide, along with other 'greenhouse gases', causes global warming. This results in increased rainfall and violent storms, decreased snow and ice cover,	=a. x 1.42	794,396
EQUIVALENT NUMBER OF MATURE TREES PLANTED	= a. x 0.0034	1,902

Trees remove carbon dioxide from the atmosphere, and many environmentalists advocate tree planting as a way to offset carbon dioxide emissions into the

System Performance – The cost savings values presented were developed using the best available "real world" factors that influence system performance. However any particular installation performance cannot be guaranteed to match performance measures stated and may vary. Data sources: Emissions data: US Environmental Protection Agency E-GRID 2000; Electricity mix and energy content: US DOE Energy Information Administration; Car miles and tree data: US EPA, Green Mountain Power.

Environmental Impact Review Background

Most of the electricity in America comes from electrical generation facilities that burn fossil fuels, such as coal and natural gas. Whenever fossil fuels are burned, some amount of pollution is released into the atmosphere. That means that every time we use a kilowatt-hour purchased from a utility company to turn on a light or appliance, a little bit of air pollution is released on our behalf. One of the benefits of solar energy is that it does not pollute, and every kWh created by your solar power system is one that does not have to be created by burning fuel.



Scientists generally agree that as a result of the combustion of fossil fuels and other human activities, atmospheric levels of carbon dioxide have increased by nearly 30% since the beginning of the industrial revolution. Carbon dioxide, along with other 'greenhouse gases', enhances the heat-trapping properties of the Earth's atmosphere. Thus, increased levels of greenhouse gases in the atmosphere are believed to be linked to an increase in global temperature. Global temperatures have risen by about 1 deg F since the late 19th century, and are expected to rise another 1-4.5 deg F in the next 50 years. Rising global temperature has resulted in increased rainfall and violent storms, decreased snow and ice cover, and rising sea levels. In the US, 82% of greenhouse gas emissions comes from burning fossil fuels to generate electricity and power cars. Your solar electric power system can dramatically reduce the amount of carbon dioxide released into the atmosphere.

Trees remove carbon dioxide from the atmosphere, and are one of two major CO2 'sinks' (the other is oceans) that have helped to maintain the balance of CO2 in the atmosphere throughout the course of time. Many environmentalists advocate tree planting as a way to offset CO2 emissions into the atmosphere. Using solar electricity can be equated to planting trees in terms of atmospheric CO2 reductions.





Generating electricity from fossil fuels also releases Sulfur Oxides (SOx) and Nitrogen Oxides (NOx) into the air. SOx and NOx are primary causes of acid rain. Acid rain causes acidification of lakes and streams and contributes to damage of trees at high elevation and many sensitive forest soils. In addition, acid rain accelerates the decay of building materials and paints, including irreplaceable buildings, statues, and sculptures that are part of our nation's cultural heritage. Prior to falling to the earth, SO2 and NOx gases and their particulate matter derivatives, sulfates and nitrates, contribute to visibility degradation and harm public health.

In addition to acid rain, Nitrogen Oxides (NOx) are a key contributor to the formation of ground level ozone, which is a major component of smog. Ozone irritates the eyes, damages the lungs, and aggravates respiratory problems. It is our most widespread and intractable urban air pollution problem. Using solar electricity reduces the amount of NOx released into the air from power plants.

Using electricity generated from fossil fuels and driving cars are the two personal activities that have the most significant environmental impact. You can compare the amount of pollution generated by driving a car to that prevented by using solar electricity as another measure of the environmental benefits of solar.

The average American uses over 20 barrels of oil each year. You can also equate the solar energy your solar power system will save over its lifetime to equivalent barrels of oil as a measure of environmental benefits.

Ť.

California Sola	r Initiative / en / tat	sible Francis
Incentive Calculator - BIPV Comp	atible	and the life
	Proposed	Reference
Site Specifications:		
Project Name	148 S Wilson	
ZIP Code	93444	92867
City	Nipomo	Orange
Utility	PG&E	
Customer Type	Government/Non-Profit	
Incentive Type	EPBB	*
PV System Specifications:		
PV Module	REC ScanModule AB:SCM220 220.0W STC, 195.9W PTC, 196.9W PTC _{adj} ¹	
Number of Modules	70	
Mounting Method	>3" to 6" average standoff	
DC Rating (kW STC)	15.4000	
DC Rating (kW PTC)	13.7130	
Inverter	SMA America:SB7000US (240V)	
Number of Inverters	2	
Inverter Efficiency (%)	96.00 %	
Shading	Minimal Shading	Minimal Shad
Алтау Tilt (degrees)	19	
Array Azimuth (degrees)	228 True North 0°	
	A	
Optimal Tilt (proposed azimuth)	20	
Optimal Tilt (facing South)	19	17
Results		
	23,918 (a)	
at opumal uit	23,974 (0)	22 209 (4)
facing south at opurnal uit	24,490 (c)	23,308 (d)
	May-October	May-October
	14,392 (e)	
at opurnal uit	14,359 (i)	13 477 (b)
	13 164 MM	15,477 (1)
CEC-AC Raulig	00.000W	
Design Correction ²	99.980%	
Geographic Correction	100.000%	
Installation Correction"	100.000%	
Design Factor ⁵	99.986%	
CSI Rating ⁶	13.162 kW	
Incentive Rate	\$2.30/Watt	

Incentive⁷

\$30,273

Please be aware that PG&E has received enough non-residential projects to move in reserved). The total capacity under review is 24.94 MW and the total capacity availab project will receive funding in Step 6 (\$1.85/Watt) for a total incentive of **\$24,350**.

Report Generated on

2/18/2009 9:13:44 PM

The CSI-EPBB calculator is a tool available to the public and participants of the CSI program, whose sole purpose is to determine the appropriate incentive level based on a reasonable expectation of performance for an individual system. The results of the calculator sl system performance. Actual performance of an installed PV system is based on numerous factors, and may differ with the results sum reason, contractors, participating customers, and other interested parties should only utilize the calculator to determine an appropriate program. Additional uses for the calculator other than its intended purpose as stated above are not endorsed or encouraged.

Recalculate

Notes:

- 1. PTCadj: The adjusted PTC rating is calculated based on the installation method and panel specifications. See the User Guide Appendix A for det
- 2. Design Correction: This is the ratio of the summer output of the proposed system (e) and the summer output of the summer optimal system at the
- 3. Geographic Correction: This is the ratio of the annual output of the summer optimal south facing system at the proposed location (c) and the ar at the reference location (d).
- 4. Installation Correction: This is the ratio of the adjusted PTC rating and the unadjusted PTC rating.
- 5. Design Factor: This is the product of the Design Correction, Geographic Correction, and Installation Correction.
- 6. CSI Rating: This is the product of the Design Factor and the CEC-AC Rating.
- 7. Incentive: This is the total incentive for the proposed system. It is the product of the CSI Rating and the Incentive Rate. Please be aware that the final CSI incentive rate that is reserved for you will be determined by your CSI Program Administrator at the time your may be lower than the current incentive rate shown in the CSI Statewide Trigger Point Tracker. Please note that final incentive amounts are subjec system. (Per the CSI Handbook, no projects or applications are reserved CSI funding until all required information has been submitted and approver.)
- 8. As of 6/20/08, the CSI-EPBB calculator performs rounding as follows:
 - Estimated kWh production is rounded to the kWh
 - CEC-AC rating is rounded to the watt
 CSI rating is rounded to the watt
 - CSI rating is rounded to the wait
 Design factor is rounded to 5 significant digits
 - Incentive is rounded to the dollar

E-mail CSI-EPBB@laesc-inc.com with guestions or comments.

© 2007-2009 California Solar Initiative Program Administrators

February 19, 2009

Ryan Work Area Sales Manager (805) 440-6299 rwork@recsolar.com



Solar System Owner

Nipomo Community Service Disi Nipomo Community Service Disi 148 South Wilson Street Nipomo, CA 93444

Solar System Size

\$7.57 Cost per DC Watt 11,440 Watts DC Solar Electric System

9,726 Watts AC Solar Electric System

Class	Item	Description	Qty.	Amount
Complete Turn-Key	System Cost to Inc	lude the Following Items:	1	\$ 86,601.0
			5	
Solar Panels				
	REC 220	REC Group 220-Watt	52	
Inverters				
	SB5000US (240V)	SMA 5000-Watt, 240VAC	2	
Monitoring				
The second second	REC003	Energy Recommerce Online	1	
Racking				
11 C 231	RACKING	REC Solar SolaRak™	5	
Other Expenses				
	MISC ELEC	Misc Electrical Equipment	1	
	EQ RENT	Equipment Rental	1	
A 8 AS 20	S&H	Shipping and Handling	1	
Labor Components				
	GEN LAB	General Labor	1	
	ELEC LAB	Electrical Labor	1	
	D&E	Design and Engineering	1	
A 64 1992A N 84 19	REC WARRANTY	Installation (10 yr)	1	
Solar Administration	1			
	REBATE	Rebate Administration	1	
	INTERCON	Interconnection	1	
	SALES TAX	REC Sales Tax	1	
	PERMITTING *	Permitting	1	
			Total to REC Solar	\$86,60
Rebate is an estimate	e only.		State Rebate	17,99
**These system costs	are a preliminary es	timate only. Final system cost will be	Tax Credits	
determined after deta	iled engineering has	been conducted by REC Solar.	Net System Cost**	\$68,60

GENERAL DISCLAIMER: All guotations are valid for (30) days from the date of the guotation unless a reduction of rebate occurs within the 30 day period. Design, permitting, installation, sales tax, utility interconnection and rebate paperwork as detailed in the "General Contract for Services" are included in the quoted system cost. The total price paid to Contractor is listed as "Total to REC Solar." "Net System Cost" is realized after tax returns are filed and related tax credits are applied by the IRS.

determined after detailed engineering has been conducted by REC Solar.

TAX/FINANCIAL DISCLAIMER: The tax information on this page is intended for discussion purposes only and should not be construed as tax advice. All applicable federal tax credits are estimates. Actual tax credits will be based on customer's financial situation. Customers applying for the commercial tax credit should consult with a tax professional to determine eligibility. We recommend that you contact an accountant or tax attorney for any specific financial advice.



System Performance Analysis Using Net Metering

Nipomo Community Service District Site Location: Nipomo Community Service District System Size: Commercial Rate Tilt Angle: CA, Pacific Gas and Electric, A1 Mounting Azim

Site Location:NipomoSystem Size:11440 DC WattsTilt Angle:4 in 12 (19 Deg)Mounting Azimuth:214 - 236(South West)

First Year Savings: \$2,949

71.3% Total kWh Offset

Proposed Utility Rate:

CA, Pacific Gas and Electric, A1

Electricity Savings per kWh from Solar*: \$0.168



Month	Est. Building Usage		Est. System Production	Monthly Solar Savings	
	Before (kWh)	After (kWh)	kwh		
January	1,720	710	1,010	\$135	
February	2,080	1,003	1,077	\$144	
March	1,720	263	1,457	\$194	
April	1,760	114	1,646	\$220	
May	2,120	310	1,810	\$348	
June	2,480	678	1,802	\$347	
July	2,240	325	1,915	\$368	
August	2,520	694	1,826	\$351	
September	2,360	799	1,561	\$300	
October	2,160	780	1,380	\$266	
November	1,680	603	1,077	\$144	
December	1,760	771	989	\$132	
TOTAL	24,600	7,050	17,550	\$2,949	

Annual Solar Production (kWh): Conservative calculation using 25 yr. Solar chart data, panel, and inverter specifications	17,550
Estimated 1st Year Electric Bill Savings: Estimated by calculating your past electricity usage and the amount we will offset from your bill	\$2,949
Cost per kWh of Solar Electricity: Calculated by dividing post-cash incentive cost of system and expected power generation	\$0.166
Credit Given by Utility for Electricity: Value of Actual kWh Produced by Solar Electric System	\$0.168
Payback (Payback assuming 6% rate escalation in savings calculation)	15.8 Years

*The first year energy savings and any future energy savings are estimates only. Savings may vary based on solar radiation levels, soiling or any factors that affect solar system production. Actual savings may also be different from estimated savings as a result of electric rate changes.

This information is Intended for discussion purposes only and should not be construed as tax or financial advice. We recommend that you contact an accountant or tax attorney for any specific financial advice.

Copy of document found at www.NoNewWipTax.com



CASH FLOW AND INCOME STATEMENT

Nipomo Community Service District Nipomo Community Service District CA, Pacific Gas and Electric, A1

Naminal Deturn Analysis 25.	Verme				and the Party of t	1000				the state of the s	100				and the second second						
Nominal Return Analysis 25-	rears (ADC COL)	PU	Irchase Terms		100 001	Та	x Credits	1. 17.0		the state of the	Fa	cility Use			100.000						
System Lost Before Rebate	(\$86,601)		Pre-Rebate Cost		\$86,601		ommercial Fe	ederal lax Cred		0.00		% of Facility Us	age Linked to t	Business	100.0%						
Net Tax Credits Provided (1) 0.00/	\$11,332		Use of Repate		Reduce basis		State Energy	ax creat	-	0.070		system userul i	lite	1.	42						
	-		Lost after Rebate		\$08,000		state Energy	credit - rears		2	200	Contraction of the local distance of the loc	20.000000120	and the second division of the second							
Tax Shield from Depreciation 0.0%			Rebate Taxable		no	-	State Energy (Credit - Cap		\$0	In	verter Replac	ement	In the Party of Party of							
Cost After Rebate & Tax Credits	(\$68,606)	1000		-			State Energy (Credit - Actual		\$0	AC	Wattage Ratir	g * \$.25 at yr	15	(\$2,500)						
Energy Savings for 25 yrs	\$150,855	Fli	nancing Terms	VILLIMITAR DEL	Contraction of the	- Anna	2.0530	Contraction in the second				10	17 M. 19	10.000	a contraction of the second						
Financing Cost (Fees/Interest)	\$0	(Original Principal		\$0	Bo	nus Depreci	ation	THE S DO	0%	M	aintenance Co	st Inputs	ALL CONTRACTOR	a summer of the local sectors in the local sectors						
Operational Maintenance & Inverter	(\$2,500)	-	Leverage		0%	Bold Hall						Percentage of	AC system size	per year)	0.25%						
Net Savings	\$148,355	F	Financing Costs		0.00%	Re	bate		Trail The State	THE REAL PROPERTY OF		(Year 20 - Lab	or Rate per kW	n) 📃	35						
Net System (Cost) / Benefit	\$79,749	1	Interest Rate		0.00%		Total Projecte	d Rebate Paym	ient	\$0		(Year 20 - Lab	or Hours per k	W)	0.5						
(1) Total Tax Credits Less Credits Used for System Income. I	ncludes OR pass-through.		Ferm (Years) Year Loan Paid of Semi-annual Payr	f ment.	0 0 \$0	1	Fotal Projecter PBI Cap	d Rebate Paym	ent after tax	\$0 None		(Year 20 - Mat System Size (k	erial Cost per I W AC @ PTC)	(W)	<u>150</u> 9.73						
1st Year Cash Flow		1	Total Interest exp	ense	\$0	En	ergy Saving	S	THE AND BE	Contraction of											
Initial Capital Provided / (Required) Year 0	(\$68,606)	1	Annual loan paym	nent	\$0	I	ncluded in Ta:	xable Inc.?		Yes											
Net Cash Provided / (Required) Year 1	\$2,949					F	ate Escalation	n		6.0%											
		M	a <mark>rginal Tax Rat</mark> Federal	•	35.00%	A A	nnual System verage energ	y Degradation (y savings	(%)	0.50% \$6,034											
25-Year IRR	5.52%		State		8.00%	F	irst year ener	gy savings		\$2,949											
		3	Effective Tax Rat	e 🗌	40.2%						Ass	sumption: The	Purchaser has tax	able Income to take	e advantage of tax	credits / write-offs	s from system own	ership.			
				_			Discount Rat	e		6.5%		En	ergy Savings are e	stimated based on l	ong term weather	data-actual perform	mance may vary				
Taxable Income Statement	Year 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Rebate	MREEDLAL VI	FALSE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Energy Savings		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
State Tax Credit		0	0	0	0	0	~		~	100	250		1.41	-							
SREC Income	to the standard in the standard in the	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL REVENUE	A DESCRIPTION OF THE PARTY OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Inverter Replacement															0	(2,500)	0		0	0	0
Maintenance Expense	SAL STRANG	0	0	0	0	0	0	0	0	U	0	0	0	0	U	0	0	0	U	U	0
TOTAL EXPENSES		0	0	0	0	0	0	0	0	0	0	0	0	0	0	(2.600)	0	0	0	0	0
Earnings Refore Taxes (ERT)	and the second second	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(2,500)	0	0	0	0	0
carnings before taxes (EBT)		0	0	0	0	0	U	U.	0	0	0	U	U	0		(2,500)					
Tax Credits Federal Tax Credits																					
Total Tax Credits Available				•		3.72			•		141			10							
Cash Flow Statement	Year 0		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
System Purchase Price	(\$68,606)	and the second second	THE R. P. LEWIS CO., LANSING MICH.		STREET, STREET			State of the local division in	and the state of the	CONTRACTOR OF STREET, S	and a local design of the					COLUMN TWO IS NOT			COLUMN STREET		VID IN THE
Inverter Replacement																(2,500)					
Rebate		FALSE	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Federal Tax Credit		10.000	0	0	0	0	1000	4.4	100			10 M			100	S.NEA	1.5	1.50	1.200	12.00	1025-
State Tax Credit		0	0	0	0	0															
State Tax Credit Tax (Cost)	TOWN T	0	0	ō	o	0	0	0													
Income Tax Savings / (Cost)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Energy Savings		2,949	3,111	3,282	3,463	3,653	3,854	4,066	4,290	4,526	4,775	5,038	5,315	5,607	5,915	6,241	6,584	6,946	7,328	7,731	8,156
Maintenance Costs	i	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Net Cash Flow	\$ (68,605)	\$ 2,949 \$	3,111 \$	3,282	\$ 3,463 \$	3,653 \$	3,854	\$ 4,066	\$ 4,290	\$ 4,526	\$ 4,775	5,038	5,315	5,607 \$	5,915	3,741	\$ 6,584	6,946	\$ 7,328	7,731 \$	8,156
		No. of Concession, Name of	A COLORED OF THE OWNER OWNER OF THE OWNER OWNE	STATISTICS IN CONTRACTOR OF THE OWNER.		and the second se	The second s	CONTRACTOR OF TAXABLE PARTY.	and the second se	the second second second second	and the second se	and the second se	the second s	and the second se	and the second of the second s	the second s		The second se		A REAL PROPERTY AND A REAL	101 202

This information is intended for discussion purposes only and should not be construed as tax or financial advice, We recommend that you contact an accountant or tax attorney for any specific financial advice.





Return Analysis of Electricity Savings

Nipomo Community Service District Nipomo Community Service District CA, Pacific Gas and Electric, A1

Cost after Repates and Tax C	reuns
Initial Investment / System Cost	(\$86,601)
State Cash Payments*:	\$17,995
Est. Tax on Rebate:	\$0
Federal Tax Credit:	\$0
State Tax Credit:	\$0
5-Yr MACRS Tax Savings**:	\$0
6-Year Net System Cost:	(\$68,606)

Cash Flow Return Analysi	is:	
Internal Rate of Return:	5.52%	

Cost of Power:	Current	Year 10	Year 25
Average Utility Cost / kWh:	\$0.168	\$0.284	\$0.680
Solar Electricity / kWh:	\$0.166	\$0.166	\$0.166
Savings per kWh:	\$0.002	\$0,118	\$0.514

Nonineld BOX	Vore 6	Vorse 10	Vera 25
Nominal* ROI:	rear o	rear 10	rear 25
Est. Annual Elec.Savings	\$3,854	\$4,775	\$10,660
st. Actual Return on Net System Cost	5.6%	7.0%	15.5%
Est. Cumulative Elec. Savings	\$20,314	\$37,971	\$150,855
Cumulative ROI on Net System Cost	29.6%	55.3%	219.9%

*State Cash Payments: Taxable. Includes utility rebates, Oregon pass-through and any other cash incentives

**Depreciable Basis: \$68,606

No IRS Rebate Taxable Ruling: State cash rebates are to be considered taxable income

Average Utility Cost per kWh: Average cost of utility power offset by solar electricity

Solar Electricity / kWh: The total lifetime costs, including maintenance, of the solar system divided by the lifetime kWh production of the system. The production includes 1/2% per year loss of output due to aging.

Annual Business Rate Escalation: 6.0%

Based on an Energy Information Administration 1970-2005 Trend Analysis

> *Nominal: Describes money without the effects of inflation or the time value of money built in. Today's dollars.

> > We recommend that you contect an accountant or tax attorney for any specific financial advice.

Savings from Solar over the 25 Year Lifetime of the System



This information is intended for discussion purposes only and should not be construed as tax or financial advice.

Copy of document found at www.NoNewWipTax.com



ENVIRONMENTAL REVIEW

Name:	Nipomo Community Service District	Date	: 2/19/2009
System Descriptio	n: 11,440 DC Watt, Utility Inte	eractive Photovol	taic System
This sheet quantifies so made from the burning	me of the environmental benefits that your sy of fuels.	ystem will provide by	y replacing electrici
LIFETIME KWH PRO The amount of electricity you lifetime	DUCTION ur solar power system will produce over its 25-year	Line a:	413,415
BARRELS OF OIL OF The number of barrels of oil that your system will produc	FFSET BY YOUR SYSTEM, LIFETIME required to generate the same amount of electricity in its 25-year lifetime.	= a. x .00203	839
CAR MILES NOT DR Using electricity generated fr activities that have the most	IVEN, LIFETIME rom fossil fuels and driving cars are the two personal significant environmental impact.	= a. x 1.7755	733,812
ACID RAIN EMISSIC Generating electricity from for Oxides, primary causes of ac	ONS REDUCTION, Ibs ossil fuels also releases Sulfur Oxides and Nitrogen cid rain, into the air. Acid rain damages lakes, streams	= a. x 0.0075	3,101
SMOG EMISSIONS F Nitrogen Oxides are a key co major component of smog. problems. It is our most wid	REDUCTION, Ibs ontributor to the formation of ground level ozone, a Ozone irritates the eyes, and aggravates respiratory despread and intractable urban air pollution problem.	= a. x 0.0036	1,488
GREENHOUSE GAS I Carbon dioxide, along with o results in increased rainfall a	REDUCTION, Ibs ther 'greenhouse gases', causes global warming. This and violent storms, decreased snow and ice cover, and	=a. x 1.42	587,049
EQUIVALENT NUMB Trees remove carbon dioxide advocate tree planting as a	ER OF MATURE TREES PLANTED a from the atmosphere, and many environmentalists way to offset carbon dioxide emissions into the	= a. x 0.0034	1,406

System Performance – The cost savings values presented were developed using the best available "real world" factors that influence system performance. However any particular installation performance cannot be guaranteed to match performance measures stated and may vary. Data sources: Emissions data: US Environmental Protection Agency E-GRID 2000; Electricity mix and energy content: US DOE Energy Information Administration; Car miles and tree data: US EPA, Green Mountain Power.

Environmental Impact Review Background

Most of the electricity in America comes from electrical generation facilities that burn fossil fuels, such as coal and natural gas. Whenever fossil fuels are burned, some amount of pollution is released into the atmosphere. That means that every time we use a kilowatt-hour purchased from a utility company to turn on a light or appliance, a little bit of air pollution is released on our behalf. One of the benefits of solar energy is that it does not pollute, and every kWh created by your solar power system is one that does not have to be created by burning fuel.



Scientists generally agree that as a result of the combustion of fossil fuels and other human activities, atmospheric levels of carbon dioxide have increased by nearly 30% since the beginning of the industrial revolution. Carbon dioxide, along with other 'greenhouse gases', enhances the heat-trapping properties of the Earth's atmosphere. Thus, increased levels of greenhouse gases in the atmosphere are believed to be linked to an increase in global temperature. Global temperatures have risen by about 1 deg F since the late 19th century, and are expected to rise another 1-4.5 deg F in the next 50 years. Rising global temperature has resulted in increased rainfall and violent storms, decreased snow and ice cover, and rising sea levels. In the US, 82% of greenhouse gas emissions comes from burning fossil fuels to generate electricity and power cars. Your solar electric power system can dramatically reduce the amount of carbon dioxide released into the atmosphere.

Trees remove carbon dioxide from the atmosphere, and are one of two major CO2 'sinks' (the other is oceans) that have helped to maintain the balance of CO2 in the atmosphere throughout the course of time. Many environmentalists advocate tree planting as a way to offset CO2 emissions into the atmosphere. Using solar electricity can be equated to planting trees in terms of atmospheric CO2 reductions.





Generating electricity from fossil fuels also releases Sulfur Oxides (SOx) and Nitrogen Oxides (NOx) into the air. SOx and NOx are primary causes of acid rain. Acid rain causes acidification of lakes and streams and contributes to damage of trees at high elevation and many sensitive forest soils. In addition, acid rain accelerates the decay of building materials and paints, including irreplaceable buildings, statues, and sculptures that are part of our nation's cultural heritage. Prior to falling to the earth, SO2 and NOx gases and their particulate matter derivatives, sulfates and nitrates, contribute to visibility degradation and harm public health.

In addition to acid rain, Nitrogen Oxides (NOx) are a key contributor to the formation of ground level ozone, which is a major component of smog. Ozone irritates the eyes, damages the lungs, and aggravates respiratory problems. It is our most widespread and intractable urban air pollution problem. Using solar electricity reduces the amount of NOx released into the air from power plants.

Using electricity generated from fossil fuels and driving cars are the two personal activities that have the most significant environmental impact. You can compare the amount of pollution generated by driving a car to that prevented by using solar electricity as another measure of the environmental benefits of solar.

The average American uses over 20 barrels of oil each year. You can also equate the solar energy your solar power system will save over its lifetime to equivalent barrels of oil as a measure of environmental benefits.



	Proposed	Reference
Site Specifications:		
Project Name	148 S Wilson 11kW	
ZIP Code	93444	92867
City	Nipomo	Orange
Utility	PG&E	
Customer Type	Government/Non-Profit	
Incentive Type	EPBB	
PV System Specifications:		
PV Module	REC ScanModule AB:SCM220 220.0W STC, 195.9W PTC, 196.9W PTC _{adj} 1	
Number of Modules	52	
Mounting Method	>3" to 6" average standoff	
DC Rating (kW STC)	11.4400	
DC Rating (kW PTC)	10.1868	
Inverter	SMA America:SB5000US (240V)	
Number of Inverters	2	
Inverter Efficiency (%)	95.50 %	
Shading	Minimal Shading	Minimal Shad
Array Tilt (degrees)	19	
	-	
Optimal Tilt (proposed azimuth)	20	
Optimal Tilt (facing South)	19	17
Results		
Annual kWh	17,673 (a)	
at optimal tilt	17,714 (b)	
facing south at optimal tilt	18,095 (c)	17,222 (d)
Summer Months	May-October	May-October
Summer kWh	10,634 (e)	
at optimal tilt	10,635 (f)	
facing south at optimal tilt	10,603 (g)	9,958 (h)
CEC-AC Rating	9.728 kW	
Design Correction ²	99.991%	
Geographic Correction	100.000%	
Installation Correction ⁴	100.000%	
Design Factor ⁵	99.991%	
CSI Rating ⁶	9.727 kW	
Incentive Rate	\$2.30/Watt	

Incentive⁷

\$22,372

Please be aware that PG&E has received enough non-residential projects to move in reserved). The total capacity under review is 24.94 MW and the total capacity availat project will receive funding in Step 6 (\$1.85/Watt) for a total incentive of **\$17,995**.

Report Generated on

2/19/2009 2:19:29 PM

The CSI-EPBB calculator is a tool available to the public and participants of the CSI program, whose sole purpose is to determine the appropriate incentive level based on a reasonable expectation of performance for an individual system. The results of the calculator sl system performance. Actual performance of an installed PV system is based on numerous factors, and may differ with the results sum reason, contractors, participating customers, and other interested parties should only utilize the calculator to determine an appropriate program. Additional uses for the calculator other than its intended purpose as stated above are not endorsed or encouraged.

Recalculate

Notes:

- 1. PTCadj: The adjusted PTC rating is calculated based on the installation method and panel specifications. See the User Guide Appendix A for det
- Design Correction: This is the ratio of the summer output of the proposed system (e) and the summer output of the summer optimal system at the Geographic Correction: This is the ratio of the annual output of the summer optimal south facing system at the proposed location (c) and the ar at the reference location (d).
- Installation Correction: This is the ratio of the adjusted PTC rating and the unadjusted PTC rating.
- 5. Design Factor: This is the product of the Design Correction, Geographic Correction, and Installation Correction.
- 6. CSI Rating: This is the product of the Design Factor and the CEC-AC Rating.
- 7. Incentive: This is the total incentive for the proposed system. It is the product of the CSI Rating and the Incentive Rate.
- Please be aware that the final CSI incentive rate that is reserved for you will be determined by your CSI Program Administrator at the time your may be lower than the current incentive rate shown in the CSI Statewide Trigger Point Tracker. Please note that final incentive amounts are subjec system. (Per the CSI Handbook, no projects or applications are reserved CSI funding until all required information has been submitted and approv 8. As of 6/20/08, the CSI-EPBB calculator performs rounding as follows:
- As or 0/20/06, the CSFEPBB calculator performs rounding as the • Estimated kWh production is rounded to the kWh
 - CEC-AC rating is rounded to the watt
 - CSI rating is rounded to the watt
 - Design factor is rounded to 5 significant digits
 - · Incentive is rounded to the dollar

E-mail CSI-EPBB@aesc-inc.com with questions or comments.

© 2007-2009 California Solar Initiative Program Administrators