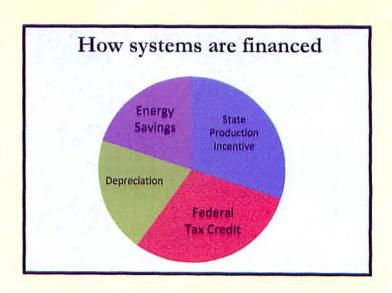


### Government/ Non-Profit Solar Financing Program

# Install a solar electric system with no upfront out-of-pocket expense with IPS Gopher Solar Financing Program!

### How does it work?

Innovative Power Systems' financing partner provides all capital necessary to install the system. This enables your solar project to be cashflow positive from day one! The project will be financed through a combination of the Made in Minnesota solar production incentive, Federal Tax Credit, depreciation, and the execution of a 15-year Power Purchase Agreement (PPA) at a rate not to exceed 80% of the savings from the electricity produced by the solar system. After 15 years, full ownership of the system and the ongoing savings are turned over to you. There is also a 10-year buyout option. Manufactured in Bloomington, MN by tenKsolar, the major components of the system have a 25-year warranty. IPS expects at least 30-40 years of useful life out of the system. With no upfront capital, solar energy has never been easier to access and enjoy. Reduce pollution and operational costs, everyone benefits!



### **About Innovative Power Systems:**



Innovative Power Systems (IPS) designs, installs, and services solar electric, wind electric, solar thermal, and EV charging

stations for residential, commercial, and utility-scale applications. IPS has designed and installed hundreds of solar energy systems since 1991, by far more than any other contractor in the state. Ralph Jacobson, owner of Innovative Power Systems, is a NABCEP certified general and electrical contractor for both solar electric and solar thermal systems. IPS has unparalleled experience in the design and implementation of renewable energy systems throughout Minnesota and the Upper Midwest.

651-789-5305 1413 Hunting Valley Road St. Paul, MN 55108

### www.ips-solar.com

MN General Contractors License #20101407 MN Electrical Contractors License # EA06128



### **INNOVATIVE POWER SYSTEMS**

Renewable Energy Design & Installation www.ips-solar.com





#### **About Innovative Power Systems:**



Innovative Power Systems designs, installs, and services solar electric, wind electric, solar thermal, and EV charging stations for residential, commercial, and utility-scale applications. Innovative Power Systems has designed and installed hundreds of solar energy systems since 1991, by far more than any

other contractor in the state. Innovative Power Systems is a NABCEP certified general and electrical contractor for both solar electric and solar thermal systems. IPS has unparalleled experience in the implementation of solar systems throughout Minnesota and the Midwest and has just received a grant from the Renewable Development Fund to install 967kW of solar projects on the light rail corridor (RDF Grant Award EP4-11).

Some of our commercial installations include:

The Science Museum of Minnesota (10kW)
Great River Energy Headquarters (72kW)
Splash Products, Inc. (40kW)
Eichten Farms (40kW)
Pellco Machine (40kW)
Quality Bicycle Products (40kW)
AGA Medical (40kW)
Waconia Ice Arena (40kW)
Lessors, Inc. (40kW)
East Side Glass (40kW)
Mallard Ink (40kW)

Please see our website at www.ips-solar.com to view other projects.

### INNOVATIVE POWER SYSTEMS



Renewable Energy Design & Installation www.ips-solar.com

#### MONTHLY CASHFLOW EXAMPLE

Becker School District #726 12000 Hancock Street Becker, MN 55308

Project Address: High School 12000 Hancock Street SE Becker, MN 55308

Credit from Xcel Energy for electricity produced by PV Array \$ 416
75% Payment (PPA) to JJR Power \$ 312
Total Monthly Savings \$ 104
Total Yearly Savings \$1,250

THIS IS AN EXAMPLE ONLY. MONTHLY SOLAR PRODUCTION AND SAVINGS WILL VARY.

### Solar PV System Cash Flow Analysis

Innovative Power Systems

Prepared for: Independent School District #726

Date: 2/5/2014 System Size 39.36kW

ips-solar.com

### Assumptions (Inputs)

Total Installed Cost (\$):	\$0
Annual Energy Output (kWh):	50,000
Electricity Cost (\$/kWh)*:	\$0.1000
Electricity Inflation Rate (%):	2
Loan Downpayment (%):	100
Down Payment (\$):	\$0

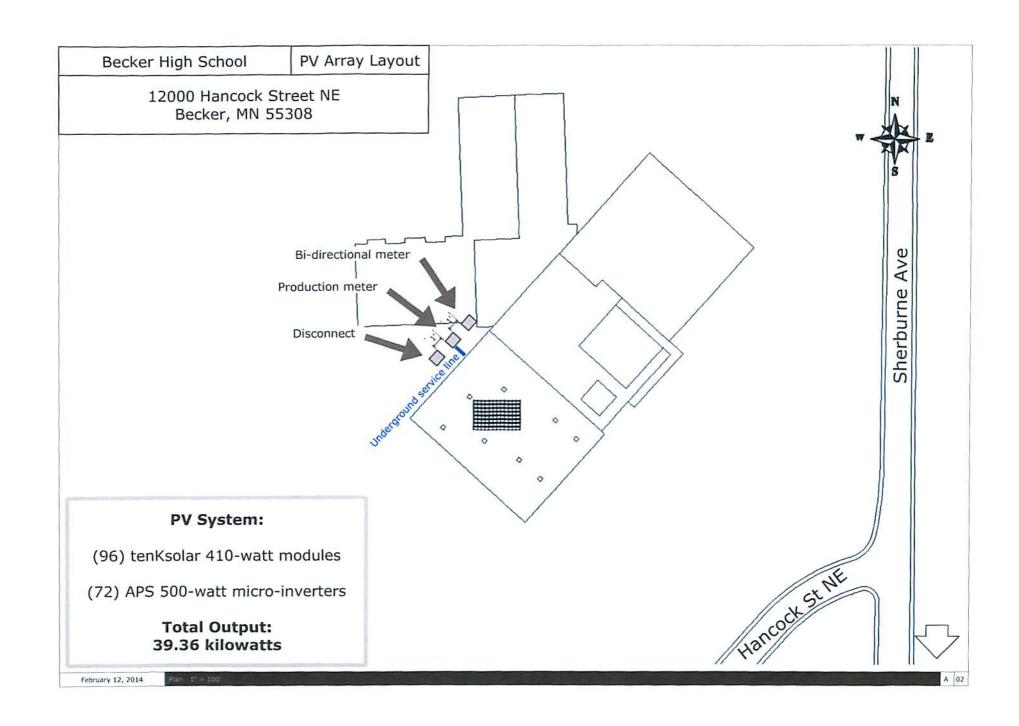
### **Annual Cash Flow Model**

Year	Upfront Cost	Reduced Energy Bill	Annual Cash Flow	Cumulative Cash Flow
0	\$0		\$0	\$(
1		\$1,250	\$1,250	\$1,250
2		\$1,275	\$1,275	\$2,525
3		\$1,301	\$1,301	\$3,826
4		\$1,327	\$1,327	\$5,152
5		\$1,353	\$1,353	\$6,50
6		\$1,380	\$1,380	\$7,88
7		\$1,408	\$1,408	\$9,293
8		\$1,436	\$1,436	\$10,729
9		\$1,465	\$1,465	\$12,193
10		\$1,494	\$1,494	\$13,68
11		\$1,524	\$1,524	\$15,21
12		\$1,554	\$1,554	\$16,76
13		\$1,585	\$1,585	\$18,350
14		\$1,617	\$1,617	\$19,96
15		\$1,649	\$1,649	\$21,61
16		\$6,729	\$6,729	\$28,34
17		\$6,864	\$6,864	\$35,210
18		\$7,001	\$7,001	\$42,21
19		\$7,141	\$7,141	\$49,35
20		\$7,284	\$7,284	\$56,63
21		\$7,430	\$7,430	\$64,066
22		\$7,578	\$7,578	\$71,64
23		\$7,730	\$7,730	\$79,37
24		\$7,884	\$7,884	\$87,259
25		\$8,042	\$8,042	\$95,30
26		\$8,203	\$8,203	\$103,504
27		\$8,367	\$8,367	\$111,87
28		\$8,534	\$8,534	\$120,40
29		\$8,705	\$8,705	\$129,11
30		\$8,879	\$8,879	\$137,990

### Results

### Ave. Monthly Savings on Bill

Year 1 (\$): \$104 Year 10 (\$): \$124 Year 20 (\$): \$607 Year 30 (\$): \$740



## RAIS® XT PV System



### » More Energy, More Reliable

Solar's most productive commercial flat roof PV system delivers up to 44% more energy and the highest return on investment.



### 20% More Watts per Roof than Leading 10° Tilt Rooftop Systems

» Shade tolerant design allows for denser packing of solar array and for installation near obstructions

### 20% More Energy per Watt

» High efficiency DC-AC conversion plus added light from reflectors boost energy production

#### Maximum Long Term Production and Reliability

» System design, architecture and materials ensure 25 year productive life

#### No Risk of Fires or Arcing

» Low voltage and module level ground fault detect circuits eliminate any lethal shock and fire hazard

### **Non-Penetrating Roof Installation**

» Simple and robust racking design resists high winds at low installed weights

#### Easy to Deploy

» Racking attachments integrated into module lowers installation times

### **Streamlined Electrical Connection and Commissioning**

» Integrated electrical connection devices simplify system design and commissioning

### Best Warranty in the Solar Industry

» 25 Year Power Warranty: Linear 0.2% degradation per year after Year 1.

### Module integrated electronics drive unmatched rooftop system performance

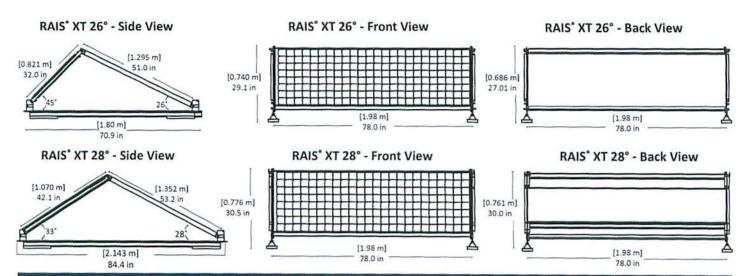
» Enables use of simple, static reflection to utilize all available sun resource <and enhances safety and reliability

#### **Tilt Options**

- » XT 26°: Maximum output per roof
- » XT 28°: More energy per watt

### RAIS® XT PV System

Tilt Configuration	RAIS® XT 26°	RAIS <sup>®</sup> XT 28°
Module Model	RAIS® XT-A 410W <sub>p</sub>	
Peak Watts/Area	10.82 W <sub>p</sub> /ft <sup>2</sup> (116.5 W <sub>p</sub> /m <sup>2</sup> )	$9.0 \text{ W}_p/\text{ft}^2 (96.7 \text{ W}_p/\text{m}^2)$
Average Array Weight	3.2 lbs/ft² (15.6 kg/m²)	2.6 lbs/ft² (12.7 kg/m²)
Wind Resistance	Up to 120 miles per hour	



Specifications			
Module + Reflector Dimensions when assembled	5.91 ft North-South x 6.5 ft East-West 1.80 m North-South x 1.98 m East-West	7.03 ft North-South x 6.5 ft East-West 2.14 m North-South x 1.98 m East-West	
System Weight	Module:	71 lbs (32.2 kg) 28 lbs (12.7 kg)	
	Reflector:		
	Raîl & Assoc. Hardware:	8 lbs (3.6 kg)	9 lbs (4.1 kg)
	Inverter & Mounting Bracket:	208V: 178 lbs (80.74 kg), 277/480V: 243 lbs (110.22 kg), 230V (50 Hz), 240V:188lbs (85.3 kg)	
Application	Flat roof (max slope: 5 degrees)		
Installation Speed	10kW per day typical (three-person crew)		
Service Voltage Options	120/208, 120/240, 230/400 (50 Hz), 240/416, 277/480		
Inverter Power Rating	5000W Low Voltage Operation		
RAIS® Reflector Materials	3M™ Cool Mirror Film		
Racking Materials	High strength structural-grade aluminum alloys		
Conductor	#2 USE-2 90C Rated (included)		

Warranties and Certifications		
Module Certifications	UL 1703/UL 1741 IEC 61215 EN 61730 pending	
Warranty	12 Year Limited Product Warranty, 25 Year Linear Power Warranty: 3% Power Degradation First Year, 0.2% Linear Degradation per year after First Ye	

Specifications and design are subject to change without notice. Read operating instructions carefully before using this product.







March 31, 2014

Joe Prom Becker High School, 12000 Hancock Street Becker, MN 55308

# Made in Minnesota Solar Incentive Program Solar Photovoltaic (PV) RESERVATION NOTICE

Date of Reservation: March 31, 2014 Application Number: MIM14-00044

Host Customer: Joe Prom

Installation Address: Becker High School, 12000 Hancock Street, Becker, MN 55308

Expiration of Reservation: November 30, 2014

Maximum Kilowatt Capacity (DC) of Project: 39.36

Solar Incentive Amount: \$0.20 per kWh

#### Confirmation of Incentive Reservation

This letter confirms that Joe Prom has received an incentive reservation in the Made in Minnesota Solar Incentive Program for application number MIM14-00044 and may begin construction on the project as described in the application.

To receive the incentive, the project payee must obtain a State of Minnesota Vendor Identification (ID) Number. Vendor IDs can be obtained from the State of Minnesota Supplier Portal. Please submit a Vendor ID to Solar.help@state.mn.us by April 30, 2014 to confirm your solar incentive reservation.

### How to Comply with Program Guidelines

Upon project completion, the applicant must submit a notice of completion package by the expiration date listed in this notice or file an extension request. Extension requests will be considered on a case by case basis.

Incentives are paid in accordance with Minnesota State Statute [§216C.414] "Made in Minnesota" Solar Energy Production Incentive. The payment of an incentive is conditional on the project's compliance with program rules.

### Questions

If you have any questions, please send an email to solar.help@state.mn.us or review the Made in Minnesota Solar Incentive Program Guidelines.

Thank you for your interest in expanding Minnesota solar resources,

Mr. Kim W. Havey, AICP, LEED AP Minnesota Department of Commerce

X.W.Havey

Made in Minnesota Solar Program Coordinator 85 7th Place East, Suite 500, Saint Paul, MN 55101

Phone: 651-539-1761 Fax:651-539-0109

Kim.l-lavey@state.mn.us | mn.gov/made-in-minnesota