

2008

grant application : A Wonderful Funding Source

Logo Design by Jeannie Riggs, Burlingame, Kansas In-kind Contribution



The Kansas Solar electric Co~operatives was founded January 2005 by Eileen M. Smith, M.Arch. to assure 1,000 MWp Building-Integrated Photovoltaic [BI-PV] Solar Energy Resource for Kansas by 2020. 70% of this *demand-site fuel-free non-polluting renewable solar technology resource* will be consumed at the generation site providing 910 MWp *effective efficiency*. Remote-site generators like coal, nuclear, large hydro and wind farms must distribute most of the electricity they generate over power lines with an average loss of 35% off the top. The K-SEC Model BI-PV DG Solar Resource with grid-connect and battery back-up will naturally and peacefully increase Homeland Security in America, Emergency Preparedness, Environmental Integrity, Reliability, Peak Shaving for AC, and BI-PV Solar Architecture Technology Expertise in Kansas while providing 1,000 21st Century jobs for Kansans for fifty years. From zero to 10%, BI-PV cannot compete in the trillion dollar vacuum of entrenched energy commerce dominated by fossil fuels. Limited *non-profit business structures* will allow humanity to timely and responsibly evolve "A Convenient Truth BI-PV Solar Architecture to Protect Earth's 21 MILES OF PARADISE".

KANSAS SOLAR ELECTRIC CO~OPERATIVES

Budget Phase I Demonstration Development Grant Application

BUDGET 2008

Name: Eileen M. Smith, M.Arch. Founder & Director
Organization: Kansas Solar Electric Co~operatives [K-SEC]
Contact Tel/Email: Post Office Box 2 ~ Lawrence, Kansas 66044
Date: KS_SEC@yahoo.com (620) 625-2215
Project Name: July 15th to December 31st, 2008 ~ Development Stage
 Phase I Demonstration ~ 10.5 MWp BI-PV by 2010
 Phase III Manage ~ Monitor ~ Maintain 2011 to 2070
URL: www.geocities.com/Solar_Electric_Cooperatives

July 15, 2008

Total Project Period: Phase III Manage ~ Monitor ~ Maintain 2011 to 2070

EXPENSES Priority Funding Needs in Blue	Entire Program Amt.	WFS% DEV	A WONDERFUL FUNDING SOURCE
Personnel ➤ Founder & Director FT Salaried ➤ CFO PT 20 hrs week ➤ Admin/Computer PT 32hrs week	\$100,000 \$ 52,000 \$ 24,000 \$ 24,000 58% Total	20%	\$20,000 20% \$10,000 20% \$ 5,000 20% \$ 5,000 51% of WFS Total
Consulting • BI-PV Manufacturing Museum & Training Ctr • Product Distribution & Distribution Lines • BI-PV Solar System Design and Install • Training & Certification Programs	\$ 10,000 \$10,000 6% Total	20%	\$ 2,000 29% \$2,000 5% of WFS Total
Educational Exhibits KS SOLAR ELECTRIC BLDGS REGISTRY GIS DATABASE BI-PV SOLAR POTENTIAL Compile 50,000SF BI-PV Potential@105 KS Counties • July 4 th to 7 th built BI-PV Home Model • Registration Fees State & 7County Fairs • Exhibition Unit w/Education Materials	\$ 55,250 \$52,000 \$ 1,000 pd \$ 750 \$ 1,500 26 % Total	12%	\$ 6,400 25% \$ 5,000 87% \$ 650 critical 7/19/08 50% \$ 750 15% of WFS Total
Travel ➤ Vehicle Rental/Donate/PurchOptions ➤ Gasoline Est. 2,000 Miles in KS ➤ Insurance Other Expenses ➤ Accommodation in-kind 50% ➤ Meals in-kind contributions 50%	\$ 3,000 \$ 1,500 \$ 250 \$ 250 \$ 700 \$ 300 1.4 % Total	83%	\$ 2,500 100% \$ 1,500 critical 7/18/08 100% \$ 250 100% \$ 250 50% \$ 350 50% \$ 150 6% of WFS Total
Printing • Advertising and Print Brochures • 10min video: <i>film edit distribute</i> • BooksAmazon.com print 50each: ➤ 2008 release Sept. "A Convenient Truth" ➤ 2005 released "ElectriCity"	\$6,500 \$ 2,500 \$ 1,500 \$ 2,500 3% Total	75%	\$4,875 75% \$ 1,875 75% \$ 1,125 75% \$ 1,875 12% of WFS Total
Administrative ➤ Office Supplies& Materials \$200 Month ➤ Phone/Computer: \$200 Month ➤ Postage & Ship mailing of 35,000 ➤ Est. Accounting & Legal Fees ➤ Banking Fees & Interest unknown	\$34,800 \$ 2,400 \$ 2,400 \$25,000 \$ 5,000 16% Total	14%	\$4,700 25% \$ 600 25% \$ 600 10% \$ 2,500 20% \$ 1,000 11% of WFS Total
Overhead Occupancy and Utilities \$500 Monthly	\$6,000 3%Total	16%	\$ 1,000 2.4% of WFS Total
SUBTOTAL DEVELOPMENT STAGE Phase I Demonstration Total Budget	\$215,550 0.43% \$50 Million	19%	\$38,975 WFS TOTAL WFS .08% of Program Total

Signature: _____

Date: _____

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SUMMARY OF ALL FUNDING TO DATE:		
Contributions & Donations In-Kind Computing Equipment & Office Cash Does not include Founder's Time & Resources	Since January 2005 \$ 5,000 \$ 2,500 undetermined	
REQUESTS FOR FUNDING PENDING WITH:		
501(c) (3) Status Pending = Application in Process K-SEC Green Tags & Authorized \$10 M Member Stock/Savings Bonds 1. The Energy Foundation <i>application in process</i> 2. KS Association County Commissioners \$150 X 105 • Invited to speak at conference Oct 2008 3. Membership Drive: See ATTACHMENT C . 4. 21 Local K-SEC Renewable Cooperatives to • Incorporate via K.S.A. Ch17-4651 to 4681 ATT B • 105 Board of Directors \$500/\$200 State dues x 105 5. Bond Finance w/KCC Ratepayer Revenue Guarantee 10.5 MWp BI-PV Solar Resource in Kansas by 2010 \$476,000 per each 105 counties to install 10,000 SF BI-PV	\$38,975 \$15,000 \$25,000 \$21,000 \$50M [rounded estimate]	
EXPENSE Phase I Demonstration SUMMARY REVIEW a. Database 50,000 SF BI-PV Roof Potential @105 counties b. 15 MWp K-SEC BI-PV Manufacturing Museum Trg Ctr c. 1 MSF K-SEC BI-PV PV Roofing 12.5 WFS Average d. 1 MSF K-SEC Balance System Components [BOS] [3] e. 1.05 MSF BI-PV = BBU @ 250SF = 4,200 x 3 = 12,600 f. 1 MSF BI-PV Solar Packaged & Delivered to Site g. 1 MSF BI-PV Solar Architecturally Installed w/BBU	EXPENSE REVIEW \$0.0005W \$0.05SF= \$52,000 \$0.75W= \$7.50SF = \$7.87M \$1.25W = \$12.50SF = \$12.25 M \$0.60W = \$6 SF = \$ 6 M \$1.20W = \$12 SF = \$12 M \$0.25W = \$2.50 SF = \$2.5 M \$0.35W = \$3.50 SF = \$3.5 M	@105 COUNTIES \$500 \$75,000 \$125,000 \$60,000 \$120,000 \$25,000 \$35,000 Per Yr
SUBTOTAL COST 1 MSF BI-PV Installed in KS w/BBU	\$4.41W = \$44.41 SF = \$46.358 M +	\$440,500 = \$8,810
PHASE III Manage + Monitor + Maintain 2010 to 2070 Phase I Demonstration Total Project Costs \$10.5 MWp using rounded figures See ATTACHMENT A Business Summary	\$0.50W = \$ 5 SF = \$ 5.25 M \$5 W = \$50 SF = \$50 M	\$50,000 = \$1,000 \$500,000 = \$10,000
20% Dual-Use Demand-Site Fuel-Free Roof = 15% Funded by Homeland Security & EMS = 15% Local Environmental & BI-PV DG Expertise =	-\$1 W -\$10 SF = -\$10 M -\$0.75 W -\$7.50 SF = -\$ 7.875 M -\$0.75 W -\$7.50 SF = -\$ 7.875 M	
50% Full-Cost Dispatch Valuation of the K-SEC Program	-\$2.50 W -\$25 SF = -\$ 26.25 M	
Phase I Cost BI-PV Solar ElectriCity® w/Full-Cost Dispatch	\$2.50 W = \$25 SF = \$24.75 M	
INCOME SUMMARY Phase I Demonstration Kansas Wholesale Metering Incentive =150% to 200% Avoided Cost • Wholesale Electricity \$0.035x1.5 = \$0.015+\$0.035=\$0.05 kWh 10.5 MWp X 5 Sun Hours = 52,500 kWh Day X 260 Days Yr = 13,650,000 kWhYear X \$0.05 kWh = \$ 682,500 Year = BI-PV Manufacturing Museum = \$50,000 Year X 50 Years =	\$34,125,000 \$ 2,500,000	
PHASE I DEMOS TOTAL ESTIMATED INCOME	\$36,625,000	
PHASE I TOTAL EXPENSES w/FULL COST DISPATCH	-\$24,750,000	
PHASE I TOTAL INCOME/VALUE AFTER EXPENSES	\$11,870,000	

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ATTACHMENTS

- ATTACHMENT A** **Kansas Solar Electric Co~operatives
Two-Page Summary Business Plan
The K-SEC Model for Kansas 2008 to 2070
Phase I Demonstration 10.5 MWp by 2010
Phase II Foundation 1,000 MWp by 2020
Phase III Manage + Monitor + Maintain**
www.geocities.com/KS_SEC/THE_KSEC_MODEL_10percentBIPVSolarby2020.pdf
- ATTACHMENT B** **Excerpt: Kansas Statutes Annotated
K.S.A. Chapter 17-4651 to 4681
Renewable Cooperatives
Regulated by Kansas Corporation Commission
House Bill 2018 passed in 2003
written by Kansas Representative Tom Sloan
17-4653 = *Incorporation requires five core board members*
17-4658 = *Members required to install 100 kWp in two years*
<http://www.kslegislature.org/legsrv-statutes/getStatuteInfo.do>**
- ATTACHMENT C** **K-SEC Membership Drive *mailer*
Kansas Solar Electric Buildings Registry *form***
http://www.geocities.com/KSEC_PHASEI_DEMO/KSEC_MEMBERDRIVE.pdf
- ATTACHMENT D** **K-SEC Kansas Solar Fair Schedule 2008 *draft edition*
www.geocities.com/K_SEC/KSECSolarFairSchedule.pdf**
- ATTACHMENT E** **April 2, 2007 letter of endorsement to the
Kansas Solar Electric Co~operatives from
Lawrence Mayor Amyx & the Lawrence City Commission
*Copy available upon request where sending via e-mail.***
- ATTACHMENT F** ***Residential Photovoltaics Building awareness and
momentum for an alternative energy source, written by
Eileen M. Smith, M.Arch. feature design/build Business ,
December 2003 page 20 to 22nd***
http://www.geocities.com/KSEC_PHASEI_DEMO/DESIGNBUILD1203.pdf
- ATTACHMENT G** ***Solar fabrication and training center proposed for Yates
Center, Chanute Tribune, June 18, 2008, page 3***
http://www.geocities.com/KSEC_PHASEI_DEMO/ChanuteTribune.pdf
- ATTACHMENT H** ***“ElectriCity® BEYOND THE CURVE OF
DEREGULATION” released April 2005***
www.geocities.com/EthosOfCommerce

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FINANCIAL REPORT:

Founder & Director: Eileen M. Smith, M.Arch. Founder & Director
Organization: Kansas Solar Electric Co~operatives [K-SEC]
Grant Number: G - XXXX - XXXXX: KS_SEC@yahoo.com
Program Title: Phase I Demonstration ~ 10.5 MWp BI-PV by 2010
Total Grant Period: [July 15th to December 31st, 2008](#) ~ Development Stage
Report Period1: [September 16th 2008](#) after close of Kansas State Fair

	Entire Project Budget: Revenue and Expenditures (As presented in original budget)	Energy Foundation Funded <u>Actual</u> Revenue and Expenditures To-Date
REVENUE		
Energy Foundation		
Other Fund Sources (list names)		
TOTAL REVENUE		
EXPENSES:		
Personnel Salaries and Wages:		
What percent of whose time		
Employee benefits, plans		
Consulting Fees:		
How much time at what cost		
Conferences, Workshops, Seminars, and Meetings:		
Travel:		
Car Rental/Payments		
Gasoline & Estimated Miles Traveled		
Accommodation		
Meals		
Printing		
Brochures		
Policy Documents		
Legal & Business Documents		
Video & Photographic Printing		
Administrative Expenses:		
Office Supplies & Materials		
Communication Telephones		
Fax, Email & Internet		
Postage & Shipping		
Accounting and Legal Fees		
Banking Fees & Interest		
Other (named)		
Overhead:		
Occupancy & Rent/Mortgage		
Utility Bills		
TOTAL EXPENSES		

Signature:

Date:

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Grant Number: G - XXXX - XXXXX: KS_SEC@yahoo.com
Program Title: Phase I Demonstration ~ 10.5 MWp BI-PV by 2010
Total Grant Period: [July 15th to December 31st, 2008](#) ~ Development Stage
Report Period2: [December 31st 2008](#)

	Entire Project Budget: Revenue and Expenditures (As presented in original budget)	Energy Foundation Funded <u>Actual</u> Revenue and Expenditures To-Date
REVENUE		
Energy Foundation		
Other Funders (list names)		
TOTAL REVENUE		
EXPENSES:		
Personnel Salaries and Wages:		
What percent of whose time		
Employee benefits, plans		
Consulting Fees:		
How much time at what cost		
Conferences, Workshops, Seminars, and Meetings:		
Travel:		
Car Rental/Payments		
Gasoline & Estimated Miles Traveled		
Accommodation		
Meals		
Printing		
Brochures		
Policy Documents		
Legal & Business Documents		
Video & Photographic Printing		
Administrative Expenses:		
Office Supplies & Materials		
Communication Telephones		
Fax, Email & Internet		
Postage & Shipping		
Accounting and Legal Fees		
Banking Fees & Interest		
Other (named)		
Overhead:		
Occupancy & Rent/Mortgage		
Utility Bills		
TOTAL EXPENSES		

Signature:

Date: