

Building-Integrated Photovoltaics

A BI-PV Magazine Publication of the
Kansas Solar Electric Co-operatives

*What is photovoltaic
solar electricity?*

Volume I Issue I November 2006

Kansas Solar Electric Buildings Registry

10% building-integrated photovoltaic [BI-PV]

**solar electricity for Kansas by 2016 via
Kansas House Bill 2018 passed in 2003**

**DRAFT
LAYOUT
FOR AD
SELLS**

**Now to form a
K-SEC renewable
cooperative in each
county of Kansas!**

Premier Issue
*Building-Integrated
Photovoltaics*

INSIDE FRONT COVER

FULL PAGE AD

One Issue \$5,000

Four Issues Quarterly each yr

\$4,500 per issue

\$18,000 per year

*Payment for each issue must be
paid by layout deadline*

*Issue One layout deadline due
November 22, 2006*

Premier Issue
Building-Integrated
Photovoltaics

Message from the
founder and director

Eileen M. Smith, M.Arch.

http://www.geocities.com/KS_SEC_2006/VITAE.pdf

AD PRICES

1/8 page business card ads \$350 one issue
\$250 w/four issue order x 4 = \$1,000 yr

1/4 page ads \$700 one issue
\$500 w/four issue order x 4 = \$2,000 yr

1/2 page ads \$1,300 one issue
\$1,000 w/four issue order x 4 = \$4,000

3/4 page ads \$2,500 one issue
\$2,000 w/four issue order x 4 = \$8,000

Page 1

Premier Issue
*Building-Integrated
Photovoltaics*

FULL PAGE AD

One Issue \$3,500

Four Issues Quarterly each year

\$3,000 per issue

\$12,000 per year

*Payment for each issue must be
paid by layout deadline*

Issue One layout deadline due

November 22, 2006

Page 2

Premier Issue

Building-Integrated Photovoltaics

TABLE OF CONTENTS

What is Building-integrated photovoltaics [BI-PV]?	5
National Security, Personal Safety and Environmental Integrity	6
Kansas Solar Electric Buildings Registry	7
Kansas Solar Electric Co~operatives [K-SEC] 1,000 MWp BI-PV in Kansas by 2016	8
K-SEC Phase I BI-PV Demonstration 100 kWp BI-PV in each county of Kansas	9
BI-PV Non-Profit Manufacturing Museum	10
County Extension Agents, Farm Bureau and Rural Cooperatives Have A Role in the K-SEC Program	11
Industry Clusters for Training and Facilitation	12
PV for your TV™ Healthfood for Our Electronic Pets	14

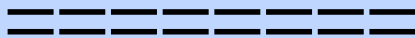
Premier Issue
Building-Integrated
Photovoltaics

Photographs

Questions

and

Answers



$\frac{1}{4}$ page ad

Page 4

Premier Issue
*Building-Integrated
Photovoltaics*

What is *building-integrated photovoltaics* [BI-PV]?

Can you use it as a grid-tied electricity generator?

Distributed generation increases electricity efficiency over remote-site generation. At least 35% of the electricity generated in remote-site facilities is lost in distribution.

=====
½ page ad

Page 5

Premier Issue
*Building-Integrated
Photovoltaics*

National Security
Personal Safety and
Environmental Integrity

Demand-site fuel-free BI-PV with
High-tech battery back-up chargers.

Increase Homeland Security and
Emergency Preparedness.

=====

½ page ad

Page 6

Premier Issue
Building-Integrated
Photovoltaics

The Kansas Solar Electric
Buildings Registry

Goal 250 Homes and 50 Commercial
Rooftops in each County of Kansas

\$500 contribution per county to the statewide K-SEC will
provide seed funding to facilitate this important GIS
database of potential solar electricity capacity.

Kansas Corporation Commission [KCC]

The administrative entity that regulates utilities in Kansas and
decisions related to the type of technology used to generate remote
site electricity. Monitor their proceedings on-line.

Demand-site fuel-free BI-PV with high tech-battery back-up chargers
will increase Homeland Security and Emergency Preparedness.

=====

1/2 page ad

Page 7

Premier Issue

Building-Integrated

Photovoltaics

Kansas Solar Electric Co-operatives [K-SEC]

Founded 2005 by Eileen M. Smith, M.Arch.

www.geocities.com/Solar_Electric_Cooperatives

1,000 MWp BI-PV Solar Electricity for Kansas by 2016 Program

Consumers will not have to purchase or install a solar system, negotiate interconnection with a utility, monitor or maintain the solar system on their home or building.

Local K-SEC renewable cooperatives will produce, install, monitor and maintain the BI-PV solar system for 50 years.

Local K-SEC renewable Cooperatives will facilitate utility grid interconnection and will sell the electricity wholesale.

Consumers must only allow K-SEC renewable cooperatives to lease their rooftops as a member and install a BI-PV solar system in exchange for three high-tech battery back-up system for 50 years for each 500 SF BI-PV solar rooftop K-SEC installs.

Premier Issue
*Building-Integrated
Photovoltaics*

**K-SEC Phase 1 Demonstration via
Kansas House Bill 2018**

written and passed in 2003

by Kansas Representative Tom Sloan

KS Statutes Annotated Requires:

- Five people incorporate
- Renewable Cooperative
- Must install 100 kWp BI-PV
- Within two years of incorporation

100 kWp is 10,000 SF of BI-PV solar rooftop

One K-SEC Cooperative in each county of Kansas =
1,050,000 SF BI-PV for 10.5 MWp or 1% fuel-free
non-polluting demand-site BI-PV solar electricity
in Kansas by December 2009

Premier Issue
*Building-Integrated
Photovoltaics*

K-SEC Phase 1
Demonstration
10 MW_p BI-PV
Manufacturing Museum

When 50% of the counties of Kansas have one K-SEC renewable cooperative and a Kansas Solar Electric Buildings Registry then K-SEC will be able to build their first non-profit 10 MW_p BI-PV Manufacturing Museum in a rural Kansas community. Goal July 07.

½ page ad

Page 10

Premier Issue

Building-Integrated Photovoltaics

County Extension Agents, Farm Bureau, Rural Cooperatives and Municipal Utilities Have A Role in the K-SEC Program

County Extension Agents have the natural role of disbursing information and developing related training programs to facilitate the K-SEC Program. Farm Bureau Agencies will assist farmers developing the resources to finance the raw materials and training for the K-SEC program. Rural and Municipal Cooperatives are natural partners where they evolved from the same *market power* conditions that have challenged the evolution of solar silicon semiconductors in the mainstream market the past thirty years.

The K-SEC Program is a finite non-profit program to assure Kansas has at least 10% solar electricity by 2016. It is in line with the executive mandate by Governor Sebelius in 2005. It will provide a small but mighty protection to Kansas consumers and farmers while evolving expertise.

Premier Issue
*Building-Integrated
Photovoltaics*

K-SEC Phase 1 Demonstration

Industry Clusters for
Training and Facilitation

- K-SEC Renewable Cooperatives
- KS Solar Electric Buildings Registry
- Community Planning & Permits
- Architectural Design & Engineering
- BI-PV Solar System Installation
- Materials Science and Raw Materials
- PV Silicon Refinery
- Balance of System Components [BOS]

Page 12

Premier Issue
*Building-Integrated
Photovoltaics*

K-SEC Phase 1 Demonstration

Industry Clusters for
Training and Facilitation

- Monitoring and Maintaining Systems
- BI-PV Manufacturing & Fabrication
- Grid Interconnection with Surge Protection and Switch for Islanding
- Long-term Grid Contract Negotiations
- Policy Analysis & Intervention
- Technology Advances & Recycling

Premier Issue
*Building-Integrated
Photovoltaics*

PV for your TV™
Healthfood for Our Electronic Pets

K-SEC local cooperatives will monitor and maintain the solar BI-PV solar systems they install.

PV for your TV™ booklets will allow your family to keep track of the solar electricity the BI-PV solar rooftop on their home or building generates.

K-SEC is not going to sell the BI-PV technology, they will produce all components of the BI-PV solar systems and will lease consumer rooftops in exchange for a batter back-up system which would be three over fifty years. K-SEC will design, install, monitor, maintain and manage the interconnection to the grid and wholesale commerce related to the electricity generated by each K-SEC BI-PV solar installation.

Premier Issue

Building-Integrated Photovoltaics

Dr. *Clean* Coal and Mr. Mercury

- 72.5% of electricity consumed in Kansas today is generated by coal-fired power plants.
- Kansas ranks 18th in the nation for coal-mercury toxins.
- In 2005, projects totaling a 55% increase in coal-fired power plants were proposed in Kansas.
- 50% of those projects were approved administratively without timely informing consumers.
- 50% of those approved are to pollute Kansans to provide electricity to other states. This is inhumane.
- In 2004, the Kansas Department of Health and Environment issued a warning for women and children not to eat fish in Kansas waters due to mercury toxins primarily from coal-fired plants.
- California does not allow coal-fired plants in their state due to the extreme health hazards of coal-fired mercury.
- Those hazards are especially damaging to children.
- K-SEC's 10% BI-PV will provide a small but powerful alternative to coal-fired power plant dependency in KS.
- There is no need to wait for disaster ---it is already here.
- 10% demand-site fuel-free non-polluting solar electricity in Kansas will provide Kansans the expertise to compete technologically in the 21st century.

Page 15

Premier Issue
Building-Integrated
Photovoltaics
Business Registry
1/8 Page Business Card Ads

Your name
Your Business
Your Address
Your Website

\$350 for one issue
\$250 each quarter for four issues
\$1,000 total for yearlong ad

Page 16

Premier Issue
*Building-Integrated
Photovoltaics*

INSIDE BACK COVER

FULL PAGE AD

One Issue \$4,500

Four Issues Quarterly each year

\$4,000 per issue

\$16,000 per year

*Payment for each issue must be
paid by layout deadline*

Issue One layout deadline due

November 22, 2006

Premier Issue
*Building-Integrated
Photovoltaics*

BACK COVER
FULL PAGE AD
One Issue \$6,000

Four Issues Quarterly each year
\$5,000 per issue
\$20,000 per year

*Payment for each issue must be
paid by layout deadline
Issue One layout deadline due
November 22, 2006*