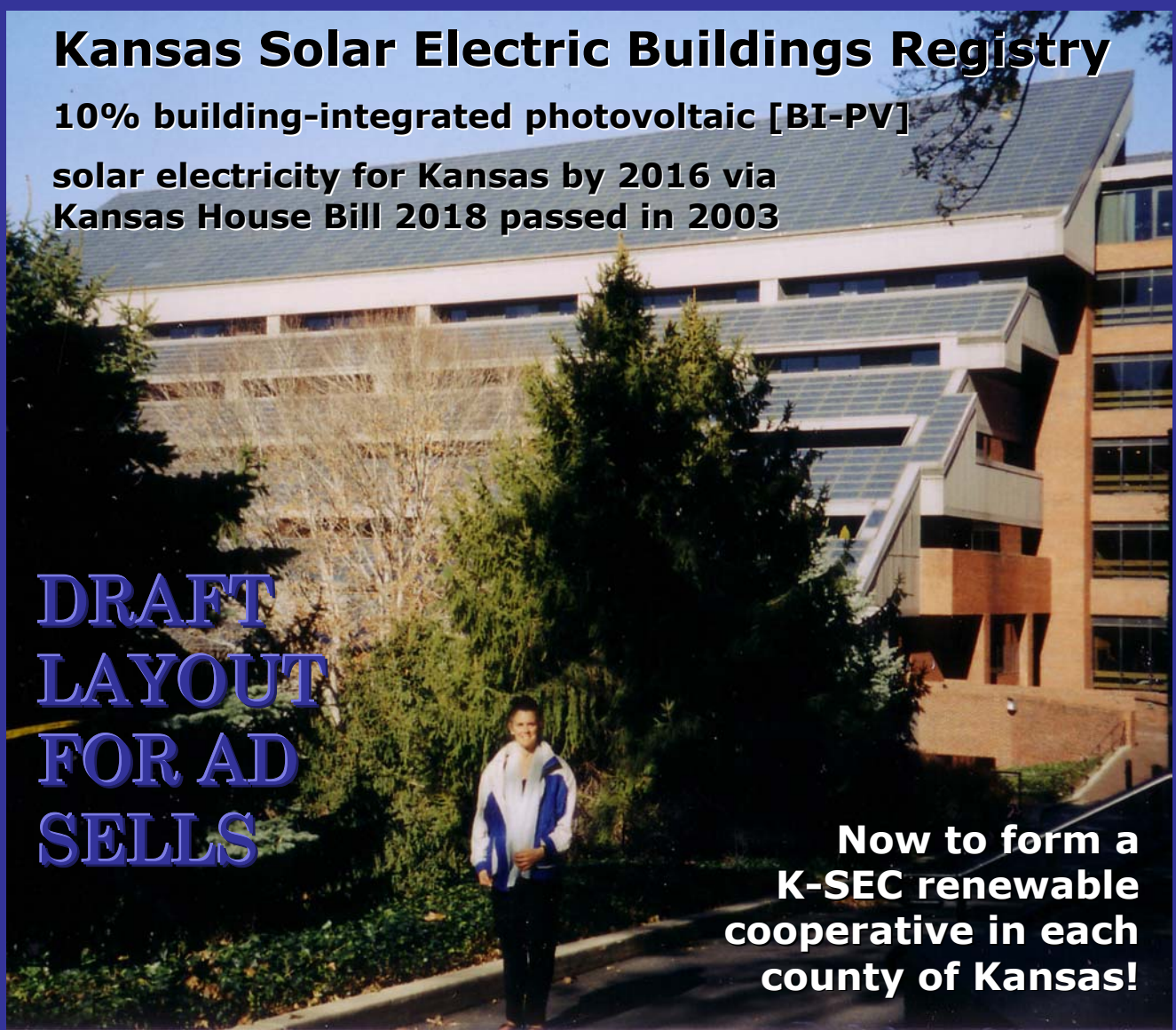
Building-Integrated Photovoltaics

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

What is photovoltaic solar electricity?

Volume I Issue I November 2006



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Message from the

founder and director

Eileen M. Smith, M.Arch.
http://www.geocities.com/KS_SEC_2006/VITAE.pdf

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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.

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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.

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½ page ad

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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.

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½ page ad

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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.

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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

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K-SEC Phase 1 Demonstration 10 MWp 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 MWp BI-PV Manufacturing Museum in a rural Kansas community. Goal July 07.

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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.

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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]

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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

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PV for your TV™

Healthfood for Our Electronic Pets

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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.

½ page ad

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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.

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