



Funding Award and Acceptance Letter

April 16, 2012

Applicant: Philip Krein, Professor, Electrical and Computer Engineering
Project: Solar Array Installation at Electrical and Computer Engineering (ECE) Building

Re: Clean Energy Technology Fee – Award Recommendation

Dear Mr. Krein:

On behalf of the University of Illinois at Urbana-Champaign Student Sustainability Committee (SSC), we would like to thank you for considering the funds raised by the Clean Energy Technology Fee to implement a project that improves the sustainability of our campus.

SSC is pleased to inform you that we are recommending to the Office of Sustainability that your project receive a **\$150,000 grant** to help put a solar energy system on the new ECE building. As discussed in the proposal, this funding is intended to cover the cost of the following: completing structural studies and comprehensive engineering plans; drawings and detailed plans and specifications for the project; support for a portion of the major equipment; and support for educational elements such as monitoring, metering, website, etc. SSC is looking forward to having this incredibly unique green building on the University of Illinois campus.

In order to remain eligible for this award, you must agree to the following conditions:

1. All funds must be spent by June 30, 2013.
2. A final report of all work completed should be provided by July 31, 2013.
3. Project status updates and detailed account statements must be provided at the end of each semester until the project is completed.
4. Any substantial modifications to project scope, budget, or timeline must first be approved by SSC.
5. All projects will be expected to follow campus policies and procedures as well as any applicable State and Federal laws.

If you agree to the terms and conditions for the funding, please sign on the designated line at the bottom of this letter. If you have any questions regarding these requirements please contact the SSC Program Advisor, McKenzie Beverage, at mbeverag@illinois.edu. You will be notified when the Office of Sustainability officially approves this project. Again, thank you for your interest in improving the sustainability of the University of Illinois at Urbana-Champaign. We look forward to working with you in the future.

SSC Signatories

Marika Nell 4/17/2012
Marika Nell (Sign and Date)
Chair, Student Sustainability Committee

Kathryn Kinley 4/13/2012
Kathryn Kinley (Sign and Date)
Treasurer, Student Sustainability Committee

Awardee Signatory

Philip J. Krein 4/17/2012
(Sign and Date) Philip Krein
Professor, Electrical and Computer Engineering

Office of Sustainability Signatory

P. K. Khanna 4/19/12
(Sign and Date) Pradeep Khanna
Associate Chancellor
Interim Director, Office of Sustainability



Project Information

Project: Solar Array Installation at Electrical and Computer Engineering (ECE) Building

Funding Source: Clean Energy Technology Fee

Funding Amount: \$150,000

Receiving Campus Unit: Electrical and Computer Engineering

Award Code: 1-629514-933000-191200-933ECE

Unit Financial Officer: Jeannette Beck

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Primary Contact Person: Philip T. Krein

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Secondary Contact Person: Andreas Cangelaris

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Project Description:

The new electrical and computer engineering building (ECE building), which began construction on January 13, 2012, will be a unique green building on our campus. It is designed to be *the most energy efficient engineering building in the world*. With the full planned solar energy complement, the building is likely to even achieve Net Zero Energy status. The facility would be the largest net-zero energy building in the United States. The goal of this project is to prepare a major solar energy component to support this building. This project will use seed funding from the Student Sustainability Committee (SSC) in the amount of \$150,000 to initiate work on the solar energy components of the new structure, as a way of participating in this green building. The SSC support will help make the facility and its solar resources unique educational living energy laboratories. Students in energy-oriented classes will be able to work hands-on with the energy system and the solar generation plant. Students in other programs on campus would be exposed to one of the largest solar energy installations in Illinois, and will be able to track its operation and view its components from a web site as well as inside the new building. The solar energy system - under discussion for the new ECE building includes two major elements: 1) Solar photovoltaic (PV) panels on the roof of the building itself. Estimated peak capacity is approximately 300 kW (about four times the size of the BIF array); 2) Solar PV panels mounted above the top level of the North Campus Parking Structure at the corner of Goodwin Ave. and University Ave. in Urbana. This structure will serve as the parking area for the new building. It should accommodate at least 1000 kW of solar PV panels (more than 25 times the College of Business Instructional facility [BIF] array size).