

Solar Design and Installation Hands-On Workshop

Nebraska Extension in partnership with Dixon Power Systems

Instructors:

F. John Hay – Department of Biosystems Engineering, University of Nebraska-Lincoln

Jon Dixon – Dixon Power Systems

Who Should Attend:

- This workshop is open to the public. People interested in hands-on experience with solar PV design and installation
- Want to experience the design and installation of a residential solar PV array (see photo below)
- People interested in learning more about economics and modeling of residential and business applications for solar electric systems

Cost: \$450 for the week **Deadline:** Registration and payment due by Friday June 29th

		Workshop Outline:
Day 1-3	Days 1-3 will be a mix of classroom teaching the design aspects followed by shop and field work learning tips, tricks, and techniques of solar installation.	<ul style="list-style-type: none">• Introduction to Solar PV electronics and components• Basics of electricity, measuring, tools and safety• Solar siting - where to locate the panels, sun angles• Capabilities and limitations of solar PV• Electrical codes, state and federal policy, tax credits and economics• Building a rack• Attaching inverters and other components• Grounding and other wiring• Wire management and final appearance• Working with your utility and electrical inspector to complete grid interconnection
Day 3-5	Days 3-5 will be at the worksite where the group will install the residential solar array.	

Dates:

July 9th – July 13th

9:00 a.m. – 5:00 p.m. (half day on Friday)

Locations:

Workshop Location:

Dixon Power Systems
3250 N. 20th, Ste #1
Lincoln, NE 68521

Work Site Location:

Ceresco, NE

To Register Contact:

Registration Link: <https://go.unl.edu/solardesign>

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Photos from our Sept 2015 hands-on workshop installing a 6.24 kW Solar PV array



Extension is a division of the Institute of Agriculture and Natural Resources at the University of Nebraska-Lincoln cooperating with the Counties and the United States Department of Agriculture, and abides with the nondiscrimination policies of both institutions.