

# Mobile Solar Unit

## Demonstrate Photovoltaic Technology and the Power of Extension

A team of OSU Extension Educators has recently designed and built a Mobile Solar Unit. The Mobile Solar Unit consists of a 140 watt Photovoltaic (PV) solar panel, charge controller, battery back-up system, 2000 watt inverter, and safety disconnects. All of the components are built into a mobilized cart that can be transported to events throughout Ohio in the back of a pickup truck.

The Mobile Solar Unit will serve as a teaching tool to demonstrate the major components of how PV solar technology works, assist in disseminating renewable energy curricular materials and videos, as well as promote Extension impacts via short videos at the many Extension events throughout Ohio. This Mobile Solar Unit is ideal for remote outdoor events, field days, county fairs, and 4-H camps where it can enable access to power many appliances the presenter might need such as a projector, TV, computer, or microphone. The Mobile Solar Unit also serves as a great teaching tool at indoor events as well, acting as an attraction by allowing visitors to plug-in cell phones and laptops to get a quick charge.

While the primary motivation was to design a tool to help demonstrate solar technology, it also serves as a great promotional resource that will attract an audience to stop by and watch short videos of outstanding OSU Extension programs taking place throughout the state. In the absence of sunlight to power the solar panel, the unit has a battery backup system designed to run a 32" TV (provided with Mobile Solar Unit) for a minimum of 8 hours.

To reserve the Mobile Solar Unit for one of your events, please fill out the application form on page 2 of this document and email a copy to [romich.2@osu.edu](mailto:romich.2@osu.edu). Once you submit the form, you will be contacted to finalize the details of your event. If you have additional questions about the unit or how it can be used with your clientele please call Eric Romich at 740-725-6317.



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## Application to Reserve the Mobile Solar Unit

Name:

Contact Information:

Event Start Date:

Event End Date:

Location (address):

Short Description of Event:

Would you like an Educator to deliver an educational session (talk) on renewable energy or will this only be used for display, demonstration, and promotional purposes?

Maintenance Fee Options:

Travel and Delivery Options:

**Please Select a Payment Method Below:**

eRequest:

Submit to internal vender - OSU Extension Community Development

Internal Fund  
Transfer:

Signature (Org Approver):

Check:

Make Check Payable to: Ohio State University Extension

Mail Check to:

Attn: Sandy Odrumsky, OSU Extension - Community Development  
25B Ag Admin Bldg, 2120 Fyffe Road, Columbus, OH 43210

**Click Here to Submit Form**



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**Please contact us for more information:**

740-725-6317 or [energizeohio.osu.edu](http://energizeohio.osu.edu)

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