

Minnesota Renewable Energy Society Solar Trailer Information and Use Agreement

Solar Trailer

The Solar Trailer is a stand-alone photovoltaic power trailer that will supply a maximum of 40 amps of AC power for 4 hours with no charge from the solar array. The solar array will produce 375 watts per hour of electricity on a sunny day.

The Solar Trailer has powered Earth Day at the MN State Capitol, St. Paul Bike Classic, various conferences, May Day Festival, Midwest Renewable Energy Fair, Living Green Expo, Dragon Boat Races, MN State Fair, and various conferences and outdoor events.

The Solar Trailer is a great remote power source, however, if electrical loads are not efficient, the limited battery capacity of the Solar Trailer could be quickly depleted. For example, the Solar Trailer could power a string of 10 - 15 watt compact fluorescent lights for an event for over 48 hours without a charge. If that same string of 10 lights were 60-watt incandescents, the batteries would only be able to run the light string for only 12 hours. The greater the electrical demand, the less time it will run off of the battery bank. Get the picture?

Power Connections

There are 2 AC outlets located on the front, interior, of the Solar Trailer. Each of the outlets is able to handle up to 15 amps. This is of similar capacity of an outlet in a home.

Towing

Solar Trailer is a 6'x10' utility trailer that weighs over 2000 lbs. It requires a full sized vehicle to tow it; mini-vans and compact pick-ups will not be able to control the weight of the trailer on the highway.

Hitch Requirement: Class 3 hitch

Ball Size: 2"

Trailer lights: 4 prong flat plug

Insurance

It is the responsibility of the renter to have sufficient insurance to cover all damages to the Solar Trailer, to the property, to all vehicles and injury to any persons while under this use agreement. A Certificate of Liability Insurance, listing the MRES as an additional insured, is required for use. Liability insurance must cover claims up to 1 million dollars. Proof of auto insurance (no less than \$500,000) is required prior to transporting the Solar Trailer.

Costs (within the seven county metro)

\$150/day for profit, \$100/day non-profit.

Additional Costs: Expenses that may be incurred are travel, set-up, or damage. Transport outside of the seven county metro is \$1/mile to and from the event site, starting at 30 miles from the MRES Solar Trailer site if MRES provides the transport. Set-up costs depend upon specific needs.

Emergency Shutdown: To be used in cases of emergency

- If possible and safe, unplug all electrical devices
- Shut off the main disconnect located in the large white box just to the right of the inverters at the front interior of the trailer.

Warnings

- **Warning! The batteries located inside of the Solar Trailer may off gas hydrogen gas when charging. At no time should flames or smoking take place in or around the immediate vicinity of the Solar Trailer. Hydrogen gas is explosive.**
 - **Warning! At no time should any settings on the equipment or batteries be changed or tampered with. Electricity is inherently dangerous. Batteries are dangerous and explosive. Leave them alone.**
 - **Warning! At no time should the Solar Trailer be connected to the utility-grid.**
- Failure to follow these warnings could lead to injury and/or death.**

Use Agreement

The individual, school, organization, or agency renting or using the Solar Trailer assumes responsibility for, but not limited to, the security, use, and transport of the Solar Trailer. Su user assumes all liability for any damages or injury resulting from the use of the Solar Trai The user agrees to hold harmless and agrees to indemnify the MRES for all expenses, including legal expenses and or judgments, as a result of any damage or injury, whatever the cause.

I have read and understand the above information. By signing this contract I attest that I a fully insured. Further, I take responsibility and assume all liability for the safe transport and use of the Solar Trailer. Additionally,

(organization or renters name)
agrees to hold the Minnesota Renewable Energy Society harmless for any damage that may result from the transport and/or use of the Solar Trailer.

Renters Signature

Date

Date(s) needed: _____

Please send payment and signed use agreement to:
Minnesota Renewable Energy Society
2928 5th Ave. S
Minneapolis, MN ZIP 55408