



Dear STARS review committee,

Oregon State University's portable Solar Trailer demonstrates a unique application of portable solar storage technology and electric vehicle charging infrastructure. With an on board smart Level 2 charging station the Trailer is able to achieve uncommon outcomes while continuing to be a community learning and student engagement tool.

It also incorporates the latest technology in several ways. It offers day and night operation through optional grid integration of solar tracking as well as on-board energy storage with 110 volt and 220 volt inverter outputs. Of particular note is a SAE-J1772 Electric Vehicle Safety Equipment (EVSE) charging system that allows any electric car to simply plug-in and charge. On-board, lightweight and safe Lithium battery chemistry (LiFePO4) uses digitally networked data systems to monitor, protect, display and manage battery pack energy throughout charge and discharge cycles.

On its own, the Trailer is arguably the highest functioning portable utility power system in the Northwest, making it a civic asset for planned AND emergency dispatch to wherever remote power requirements may exist. I have worked with solar and electric vehicle technologies for years and am aware of many assets within the Pacific Northwest and beyond. With the EVSE, I believe it easily exceeds any existing credit requirements within AASHE's Sustainability Tracking, Assessment and Rating System.

Sincerely,

Kirk Swaney
SHIFT Electric Vehicles LLC, Owner