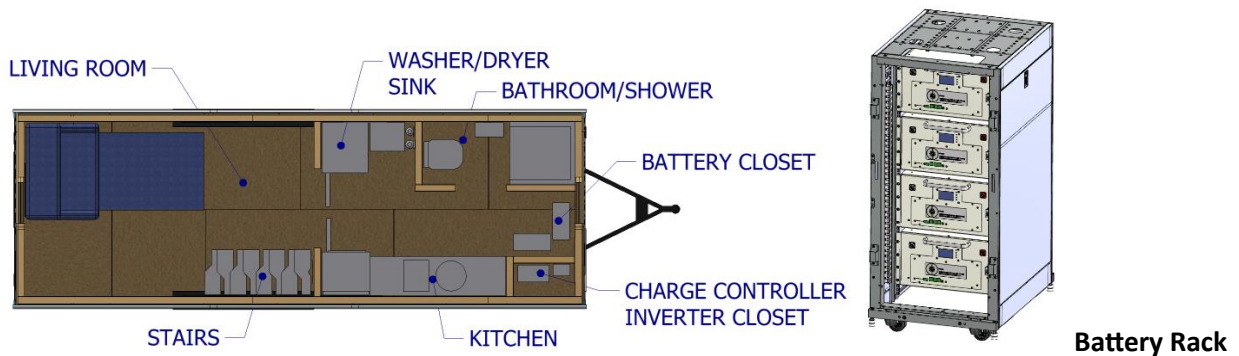




100% SOLAR OFF-GRID LIVING

Technical Assistance Request

Designing and building a 100% solar off-grid tiny home requires continuous testing and refining the prototype in order to be ready for production. Substantial help from members of the American-Made Network to scale up production much faster and also hire licensed electricians, plumbers, and builders to validate designs and pass code inspection would be much appreciated. Different regions of the country have different codes for acceptable residential homes, so expert knowledge will help refine the design to meet as many local requirements as possible.



Also, UL 1973 and 9540A Certifications may also be needed for any custom battery designs. The final tiny home design will incorporate smarter control systems to enable deep sleep modes and automatically reboot the system when it is safe to collect solar energy without wasting idle energy.



Small-Scale Prototype

A small-scale temporary prototype is currently being tested to validate the energy calculations. It has a battery capacity that is capable of 8-hour long use daily, which is not acceptable for full-time use. It would be great if there was assistance in collecting data more precisely using higher quality data acquisition and remote monitoring equipment.

When expanding into mass production, extra licenses like a builder's license, liability insurance, and professional engineer stamped drawings would be needed. Also, assistance for factory expansion and increasing the workforce would be very helpful.