



BESS Utility-Scale Solutions

Amid the clean energy transition driven by a focus on decarbonization and sustainability, the renewable energy industry faces rising costs, project delays, and skilled labor shortages. Utility-scale solar and battery energy storage systems (BESS) developers, EPCs, and OEMs are responding by streamlining designs, reducing expenses, and accelerating project timelines. They prioritize standardized, high-quality electrical assemblies and components that optimize technology performance and ensure project safety, longevity, and sustainability. These efforts are critical for enhancing the value and durability of solar and energy storage projects in a rapidly evolving market.



What are utility-scale BESS solutions from Shoals?

Turn these challenges into opportunities with Shoals' utility-scale battery energy storage solutions. Leverage our extensive expertise in renewables and energy storage electrification to optimize your solar + storage or standalone energy storage projects, while also mitigating risk and maximizing your energy assets. Unlock a variety of benefits, from accelerated project timeline and minimized labor to improved cost-effectiveness and sustainability.

How do our BESS solutions work?

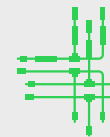


BESS Recombiner collects and combines inputs from solar arrays, BESS, and other DC microgrid components. It allows charging the BESS from renewable sources and discharging the BESS to provide consistent power to the grid. It optimizes site layouts and moves the DC recombiner from the BESS to a centralized location.



BESS Disconnect Switches are used to isolate and remove power from the BESS

container. Using disconnects mounted away from the BESS containers allows for centralized location of disconnecting, reducing O&M time.



Wiring Solutions are custom wire harnesses or jumpers, simplifying wiring and installation tasks. Manufactured in a facility with stringent quality standards, these solutions minimize onsite labor, leading to reduced project expenses, faster deployment, and elimination of in-field wiring errors.

Key Benefits:



Streamline your project design and layout

Design your solar and energy storage project confidently with standardized solutions for recombiners and disconnect switches readily available.



Reduce project risk

Reduce project risk and avoid in-field installation errors with standardized electrical and wiring solutions with strict in-factory quality standards.



Ensure quality, longevity, and reliability

Build your projects using high-quality, durable solutions crafted in-house and tested beyond regulatory standards for exceptional long-term reliability.



Speed up projects and enhance cost-efficiency

Streamline installation with our standardized, rigorously manufactured solutions that reduce onsite labor, cut costs, and accelerate deployment.



Simplify procurement with just one contract

Partner with one trusted supplier to holistically address all your BESS and other renewable energy project electrical component needs.



Meet your sustainability goals

Demonstrate your commitment to sustainability by procuring electrical and wiring solutions that optimize material use and minimize waste.

Why Shoals?



Extensive renewable energy industry expertise

Since 1996, Shoals has led the renewable energy sector with our cutting-edge technologies and innovative electrical balance of systems and wiring solutions.



Both standardized and customized solutions

We offer standard solutions or collaborate with you to customize our solutions to meet your project's unique needs.



Design, engineering, and long-term care

Our engineering and customer care teams offer continuous support to optimize your energy storage installations' layout and performance.



Innovation is in our DNA – Inventing Simple

With over 35 patents worldwide, we continuously innovate to enhance the safety, reliability, and responsiveness of our solutions to the evolving needs of the renewable energy industry.



Industry-leading EBOS and wiring provider

Our customizable plug-and-play solutions significantly reduce material, installation, labor, and O&M costs for the system's lifespan, lowering overall project expenses.



Involved in shaping industry standards

Our partnership with SEIA ensures that we shape the regulatory landscape and future standards for solar and storage components.



Simplified procurement for all components

We offer an extensive portfolio of electrical components and wiring solutions for all your BESS and other renewable energy project needs.



Proudly made in Tennessee

We support local communities by manufacturing our solutions in Tennessee, where our commitment to quality and precision ensures superior performance and reliability.

Contact us

Optimize your energy projects with Shoals' expert advice. Discuss your project goals and share your drawings to unlock tailored cutting-edge battery storage solutions. [Connect with us](#) today.

