



BLA and mini BLA Solutions for Global Markets

As the renewable energy industry continues to grow, driven by a commitment to decarbonisation, it faces the challenge of meeting rising demands for electrification and durable infrastructure. The key to success lies in accelerating project delivery and reducing costs, while also optimising project value, increasing installation longevity, and mitigating risk.

Solar Project Challenges in Europe and Globally

In regions with limited space and uneven terrain, utility-scale solar owners, developers, engineers, EPCs, and O&Ms struggle with solar architecture to maximise energy output. They seek cost-effective electrical balance of systems (EBOS) and wiring solutions tailored to their specific needs and local standards, prioritising top-notch quality, safety, reliability, and sustainability to unlock the full potential of their projects.

What Are Shoals BLA and mini BLA Solutions for Solar Projects Around the Globe?

Transform these challenges into opportunities with the right trunk bus solutions for your utility-scale solar project. Industry-leading, prefabricated, plug and play Big Lead Assembly (BLA) and mini BLA from Shoals are tailored to your regional standards.

Leverage our extensive expertise in solar PV and electrification, along with our commitment to innovation, to optimise your solar energy projects. Mitigate risk and maximise your energy assets while benefiting from accelerated project timelines, enhanced cost-effectiveness, as well as robust and sustainable design.

BLA is our renowned aluminum trunk bus system that collects strings and reduces copper home runs needed to reach a combiner box. Installed mainly above ground, it cuts installation time and costs, while minimising the need for civil works. There is no need for piercing connectors installed on site, as BLA's factory-built joints with under/over mold ensure long-term reliability and external protection.

Shoals **mini BLA** combines with SuperCombiner for fuse protection and a disconnect point for unobstructed row access. This solution lowers yearly maintenance, installs like traditional home run wiring, and delivers reliable power for stacked tracker configurations over long distances.

EBOS FOR EVERY LAYOUT

- **Individual Home Runs** – STANDARD
Individual prefabricated home runs + Combiner box
- **Harness** – HIGH CURRENT
Harness + High current combiner box
- **Harness + SuperJumper** – LONG ROWS
Harness + SuperJumper + High current combiner box
- **DC Trunk Bus BLA North-South** – LONG ROWS
DC trunk bus (mini BLA) + Super combiner box
- **DC Trunk Bus BLA East-West**
DC trunk bus (BLA) + Disconnect box

Key Benefits:



Streamline design and execution

Employ our top-quality trunk bus solutions in any configuration and geographic location.



Minimise project risk

Eliminate in-field installation errors by using trunk buses with stringent in-factory quality standards.



Ensure quality and longevity

Choose in-house crafted, durable solutions tested beyond regulatory standards for exceptional reliability.



Increase energy yield, accelerate project timeline, and cut costs

Benefit from quality prefabricated solutions that optimise the project and minimise onsite labor.



Boost project efficiency

Simplify and drive efficiency across design and key processes, from sourcing to installation and O&M.



Meet your sustainability goals

Lower your carbon footprint with EBOS solutions that optimise material use and minimise waste.



Adhere to regulatory standards

Meet local compliance standards with top-tier EBOS solutions that are IEC + AS/NZ compliant.



Streamline procurement

Partner with one trusted supplier to holistically address all your EBOS solutions needs.



Support the local economy

Purchase assemblies & components made with locally sourced inputs.

Why Shoals?



Extensive solar PV experience and expertise

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



Both standardised and customised solutions

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



Top industrial capabilities in the sector

Shoals' innovative equipment and processes enable large-scale industrial production. Our world-class welding and molding techniques ensure long-term safety and reliability.



Design, engineering, and long-term care

Our engineering and customer care teams provide continuous support to optimise your solar installations' layout and performance.



Industry-leading EBOS and wiring solutions provider

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



Simplified procurement for all components

We offer an extensive portfolio of plug-and-play electrical components and wiring solutions for all your renewable energy project needs.



Innovation is in our DNA – Inventing Simple

With over 35 patents globally, we continuously innovate to make our solutions safer, more reliable, and responsive to the global renewable energy industry's evolving needs.



Manufacturing globally to meet local needs

Our solutions are manufactured in your region, with our commitment to robust quality and meeting local standards.

Contact us

Optimise your solar energy projects globally with Shoals' expert advice. Discuss your goals and share your drawings to unlock customised cutting-edge BLA and mini BLA solutions for any geography. **Connect with us** today.

