

# Technological innovation in utility-scale energy storage

Our commitment to delivering proven, safe and sustainable solar energy storage solutions leads us to take a technology agnostic approach to sourcing components for our projects. Rather than being locked into a particular technology or supplier, we assess each product on its own merits, which allows us to innovate and move with the market in order to develop the most cost effective and reliable integrated energy products for our customers.

## Lithium Ion Batteries

Lightsource bp works with a number of tier-1 lithium-ion battery technologies and associated manufacturers. Depending on the site conditions and project application, Lightsource bp will select from a variety of tier-1 lithium-ion NMC and LFP manufacturers. Our broad pool of pre-qualified vendors also allows us to de-risk battery module supply chain. All batteries procured for Lightsource bp projects are subject to quality audits and fire testing prior to authorized use to ensure they are high performing and safe to operate.



## Power Conversion Systems

Lightsource bp carefully evaluates and selects Power Conversion Systems, (bi-directional inverters) according to application. We leverage our extensive experience and commercial relationships with solar inverter manufacturers to deliver the highest quality Power Conversion Systems for our projects. Power Conversion Systems, also known as “smart” inverters, add significant value to hybrid solar and storage systems. They can operate in all 4 quadrants of the power spectrum (real and reactive power), and can discharge to full power in a matter of cycles; this enable energy storage systems to deliver a wide array of grid services including voltage droop control, power factor control, frequency response, and other market services.

Lightsource bp is committed to upholding responsible business practices along our entire supply chain, and as such our vendor selection process is rigorous. We partner with a variety of tier-1 equipment suppliers, integrators and EPCs to deliver safe, reliable, and high performing systems. For each project, we carry out technology and vendor selection via a thorough prequalification and shortlist process to ensure the best fit solution.