

California Startup Unveils New Equipment for Cost-effective Battery Manufacturing

LiCAP Technologies Inc. announced today its latest technological addition in a form of a new manufacturing equipment for lithium-ion battery electrodes. The new equipment will be integrated into LiCAP's proprietary Activated Dry Electrode™ process and inform design of a 1GWh demonstration line, planned for 2023.

With the new equipment LiCAP plans to ramp-up production of lithium-ion battery (LIB) electrodes and lithium-ion battery cells. Martin Zea, LiCAP's VP of Operations, comments that: "The new equipment is an important milestone for LiCAP, which is necessary to demonstrate that Activated Dry Electrode™ technology can make the transition from the already established large-scale supercapacitor manufacturing to high-volume production of lithium-ion battery electrodes and beyond."

Activated Dry Electrode™ technology will radically improve the currently industrialized wet electrode coating process by removing toxic NMP and energy-consuming drying furnaces from the Gigafactories of the future. LiCAP's three-step approach can yield dramatic cost savings and significantly reduce carbon emissions from LIB manufacturing.



LiCAP engineers examine the new Activated Dry Battery Electrode™ (ADBE) equipment.

"Along with technology leadership, manufacturing excellence is one of the most important elements of our business," said Dr. Linda Zhong, President, and Co-Founder. "As we ramp up production, we will confirm our ability to industrialize Activated Dry Electrode™ process in-line with the timeline of our customers and support cost and sustainability targets of the lithium-ion battery industry."

From Hours to Minutes: Activated Dry Electrode™ process doesn't require drying, solvent recovery or calendaring and simplifies electrode manufacturing process.

Drastic Cost Reduction: Activated Dry Electrode™ process removes energy-intensive manufacturing steps contributes to lower CAPEX and OPEX.

Flexible and Modular: Manufacturers can scale in small steps to match supply to demand and be cost-effective even at a low production volume.

Safe and Sustainable: LiCAP's electrode manufacturing platform uses only a very small amount of non-toxic solvent for the activation step and directly recycles up to 100% of electrode trimmings.

ABOUT LICAP TECHNOLOGIES, INC

LiCAP Technologies, Inc. is a leading developer of sustainable manufacturing solutions for electrodes used in lithium-ion batteries (LIBs), solid-state batteries (SSBs), lithium-ion capacitors (LICs), ultracapacitors (UCs). The core technology, Activated Dry Electrode™, is applicable to manufacturing of low-cost premium electrodes for a variety of secondary energy storage applications. Co-founded and led by the original inventor of the "dry electrode" technology, LiCAP is headquartered in Sacramento, California and employs more than 150 people worldwide. LiCAP's ultracapacitor cells and modules are commercialized for a number of power applications. LiCAP's battery electrodes are available for sampling. For more information, please visit www.licaptech.com.