

LiCAP Technologies Inc. and Windurance, industry-leading providers of ultracapacitor based retrofit solutions for Emergency Pitch Control, are proud to announce a partnership with UpTower, the wind industry's leading provider of installation and technical services.

In 2019, **LiCAP** teamed up with **Windurance** to develop an ultracapacitor retrofit solution to replace the existing battery-based energy storage and charger systems in electrical wind turbine pitch battery boxes. The ultracapacitor modules and capacitor charger unit (CCU) are common across the different pitch box iterations with only harness, bracket & mounting accommodations. Compared to lead-acid batteries, the **LiCAP** ultracapacitor system boasts a significant increase in reliability and safety enabling reduced maintenance costs, minimized downtime, and a lifetime of approximately 15 years, enabled by its patented Activated Dry Electrode® technology.

"LiCAP is honored to partner with UpTower to provide a full-service ultracapacitor retrofit solution option to fleet owners & operators across North America. Our proven solution installs very quickly and frees up valuable resources for other required maintenance that are not battery related pitch faults."

- Marty Mills, Vice President of Sales - **LiCAP Technologies Inc.**

UpTower has a proven track record of delivering quality technical and installation services, including the sales and support of the LiCAP/Windurance ultracapacitor based retrofit solutions for electrical pitch control in turbines with different battery box configurations. All companies share a commitment to the global reduction of carbon emissions by applying their sustainable game-changing technologies in their respective spheres of influence.

"I am thrilled to announce this partnership between LiCAP Technologies, Windurance, and UpTower. We are proud to contribute to a greener, more sustainable future in the renewable energy sector, driven by our unwavering commitment to excellence and safety."

- Jordan Bielefeld, Vice President of Operations – **UpTower**

Windurance has over 24 years of pitch control experience and approximately 3GW of installed base. Windurance's centralized capacitor charging unit (CCU) is modular between all battery box configurations. The centralized CCU is designed for all ultracapacitor modules in a battery box which has higher reliability than an individual charger per module designs. All blade kits, including modules, CCU's, mounting brackets, hardware and wiring harnesses are kitted and shipped from the Windurance manufacturing facility in Seneca, PA.

"Windurance is pleased to welcome UpTower to the team. Jordan and his group will help facilitate deployment of this cost saving ultracapacitor retrofit solution for emergency pitch control for fleet owners and operators."

- Paul Rowan, Director of Engineering - [Windurance](#)

About [LiCAP Technologies](#)

[LiCAP Technologies, Inc.](#) is a leader in the development of sustainable manufacturing solutions for electrodes used in ultracapacitors, lithium-ion capacitors, lithium-ion batteries, and, most recently, in solid-state batteries. The core technology, the Activated Dry Electrode® process, enables industry leading ESR, capacitance, high power density, long calendar life and cycle life characteristics of our Ultracapacitor and Lithium-ion Capacitor cells and modules. LiCAP's Ultracapacitor cells and modules offer reliable solutions in a variety of commercial applications, including emergency pitch control, requiring high power density.

See how LiCAP Activated Dry Electrode® technology can impact the future of Energy Storage Technology: [Activated Dry Electrode® for sustainable, cost-effective battery manufacturing. - YouTube](#)

For further information on LiCAP's Ultracapacitor and Wind Retrofit solutions, call Marty Mills, VP of Sales at: +1 916-329-8099; e-mail info@licaptechnologies.com or visit us on the web: <https://www.licaptech.com/>

About [UpTower](#)

[UpTower's](#) commitment to technical excellence, integrity, and uncompromising quality sets them apart in the wind industry. Their highly skilled team of experts are dedicated to maintaining the highest standards of safety while delivering top-tier services.

With their strong focus on technician well-being, they have developed a state-of-the-art training program using RTC-USA. This program ensures their technicians are equipped with the knowledge and skills needed to excel in their roles while prioritizing their safety above all else.

Their dedication to these core principles enables them to provide the industry-leading services and solutions that define their reputation.

For further information on UpTower's technical and installation services, call Jordon Bielefeld, Vice President at: +1 641-390-1422; or visit us on the web: <https://uptower.com/>

About [Windurance](#)

[Windurance](#) is a global leader in wind energy solutions for pitch control systems, power conversion equipment and energy storage. This includes utility-scale pitch control systems, distributed wind equipment & controls, ultracapacitor wind retrofit, and hybrid power management equipment. Windurance is committed to providing safe, effective products and services to our customers that meet all known contractual, reliability, and regulatory requirements.

For further information on Windurance's products & services, call Paul Rowan, Director of Engineering at: +1 412-424-8900; or visit us on the web: <https://www.windurance.com/>