

Robotic Systems Offers Safer, Cheaper and Faster Wind Turbine Blade Maintenance



Innovation is integral for the renewable energy industry and the tech startup “[Aerones](#)” is considered to be one of the highlights of Electric City 2021 Innovation Park space. Aerones develops robots for much faster, safer, and more efficient wind turbine blade maintenance services.

There is a paradox in the wind turbine maintenance industry - wind turbines are growing in size and count, but the maintenance industry has been stagnant and still relies on people hanging in ropes or standing in high baskets. It's slow, seasonal, and costs a lot of money. Many hope that drones will solve this problem, but drones are limited in their operations and are effective only by performing visual inspections.

Aerones has developed a robotic system that can access the blades easily and perform different maintenance, inspection and repair services with robotic tools. This way we ensure safety to the technicians and put them on the ground, rather than a hundred meters above next to the blades. The operations are faster and more cost-efficient, minimizing the downtime of the turbines and reducing idle stay day count due to the technical resiliency to harsher weather.

The robotic fleet includes lightning protection system testing, drainage cleaning, blade cleaning, tower cleaning, surface preparation, visual inspection, and internal blade inspection tools. In only 2 active years of operations, Aerones has a strong record of performing services on 7000 turbines in over 15 countries in Europe, North and South America.

Get more information and view videos on [Aerones webpage](#).