



A catalyst in renewables, blazing the path to green energy

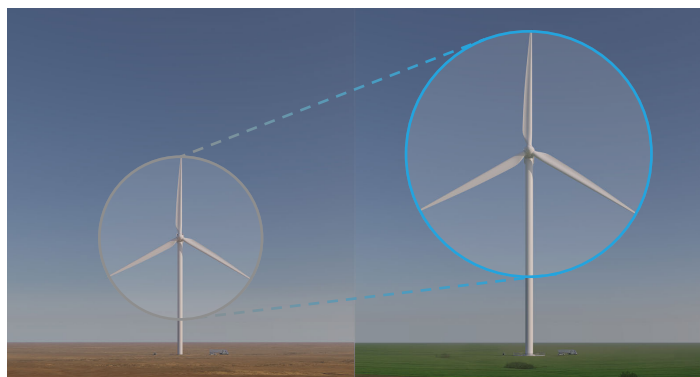
Radia is an energy company building a unique aerial transportation solution, the WindRunner, to radically expand the scope and scale of the onshore wind energy industry. Simultaneously, Radia is developing a world-class portfolio of wind energy projects to leverage this solution and partnering with the world's largest energy companies to super-size their projects. This unique combination of capabilities allows Radia to bring together the ecosystem of stakeholders and partners to enable GigaWind – the largest onshore wind turbines manufactured by our partners and deployed to more places to deliver differentiated low-cost green electricity and, correspondingly, green molecules and synthetic fuels.

GigaWind



Low-Cost, Consistent Renewable Energy

GigaWind combines the scale advantages of offshore turbines with the simplicity of onshore, yielding low-cost and consistent renewable energy for better grid stability. By 2050 It could add up to 216 GW to the U.S. grid (up to 40% of total electricity), decrease energy prices up to 16%, and reduce grid emissions by up to 31%. (Source: Jesse Jenkins)



Bigger, and Fewer, is Better

The power produced by wind turbines scales with the square of blade length and increases with height. With taller turbines and longer blades, GigaWind takes advantage of scale to consistently produce more energy at up to 30% lower cost with fewer turbines. This also minimizes environmental and visual impact and reduces noise levels.



Scalability and Optimization

GigaWind's technology deploys onshore with scalability to take advantage of location, geography and topography and maximize the ability to harness the most wind power from an area's specific wind conditions. Wind turbines can be optimized for different applications and environments.

WindRunner



WindRunner Solves Logistics

GigaWind components are too long, tall and wide to transport terrestrially. Radia's solution to this logistical obstacle is a fleet of sustainably fueled aircraft called "WindRunner" – proprietary, scalable transportation to bring GigaWind around the world that requires only a minimally prepared packed dirt or gravel runway at the wind farm site.



Ready for Takeoff

Our design philosophy for WindRunner focuses on existing technology and safety by using, where applicable, tried-and-true aviation materials, components and fabrication techniques that have FAA approval, are already in mass production and are lowest-risk. This means the fleet will be built well and quickly by aerospace industry standards.



Largest Aircraft in History

Designed to carry the largest payloads ever moved by air, WindRunner has a cargo bay volume of 272,000 cubic feet, a wingspan of 261 feet and an overall length of 356 feet. Compared with a Boeing 747-400F, WindRunner has 12x the payload volume, a 20 foot longer wingspan and is 127 feet longer.

Project Pipeline



New Frontiers, New Opportunities

GigaWind turbines increase the value of wind power in existing, accessible markets while WindRunner enables projects in previously economically or logistically unfeasible locations. This will create \$300 - \$800 billion of opportunities across the nation with 2-3X higher profitability projected for Radia's partners. (Source: Jesse Jenkins)



5+ GW Under Development Globally

Radia and our energy industry partners have already begun working on multiple world-class green energy projects to leverage GigaWind's transformative capabilities, including 4 GW in the U.S. alone – enough to power 2 million homes annually. Projects are under development both in the U.S. and internationally.



Enabling Deep Decarbonization

GigaWind's consistent and low-cost clean power will allow for electrolyzers to create truly green and affordable molecules for hard to electrify sectors. These feedstocks will eliminate up to 25% of energy-related CO₂e emissions by decarbonizing sectors such as steelmaking, cement, fertilizer, aviation, and shipping (U.S. Department of Energy).