



Ryse Energy

UTAH VALLEY UNIVERSITY – HYBRID SOLUTION:
On Campus Engineering (Drone Program) Sustainability and
Remote Power



EDUCATION

UTAH VALLEY UNIVERSITY - EDUCATIONAL INSTALL

The Utah Valley University Hybrid Mobile Trailer Solution: A fully automated wind turbine inspection system using artificial intelligence and drones. Solution powered by Wind and Solar – both permanent and mobile solutions.

Sector	Education
Location	Utah Valley University – Orem, Utah 84058
Type	Hybrid Battery Charging Trailer w/ E-5 AC connection
Installation	E-5 TURBINE – PERMANENT INSTALL AIR BREEZE MICRO TURBINE (TRAILER) AND SOLAR (TRAILER)
Total Power	4x 340W Solar and E-5 (5 kW) and AIR Breeze 160W





UTAH VALLEY UNIVERSITY – HYBRID SOLUTION: On Campus Sustainability and Remote Power

The hybrid solution supplied by Ryse Energy included an E-5 wind generator, added solar, battery and inverter for after batter AC coupling on campus installation. This solution provided power to support their renewable energy efforts in charging for example 2 laptops, lighting, access power for recharging drone on site and monitors. In additional to this permanent installation, they also equipped their mobile trailer with an AIR Breeze micro turbine for their remote “drone” project, to develop a fully automated wind turbine inspection system as charging station for data collection.





EDUCATION

Dr. Shekaramiz was the Principal Investigator (PI), with another faculty member Dr. Mohammad Sherkat Masoum serving as Co-PIs for two “Deep Technology Talent Grants”. These grants funded the efforts to develop a fully automated wind turbine inspection system. The installation of the E-5 (5kW) turbine is located in front of the new engineering building, installation by Ryse Energy and on-site support staff.







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