

Architectural Wind™

Renewable Energy That You Can See!

AeroVironment (AV) introduces a small, modular wind turbine solution designed for installation on buildings in urban and suburban areas that is visible, compelling, and architecturally enhancing.

Unlike other small wind turbine designs, Architectural Wind combines the functional with the aesthetic to create the first modular and architecturally enhancing small wind turbine system. By eliminating the support tower, reducing noise and vibration, and creating a sleek and adaptable modular solution that installs quickly and easily onto buildings, without penetrating the roof, AV defines a new category of wind energy systems that adds value to buildings and demonstrates clean energy at work.



Working alone or in tandem with other renewable energy technologies, Architectural Wind will offer an attractive ROI and cost per kW of installed capacity.

AeroVironment Background

AV a pioneer in the areas of advanced energy system technologies and high efficiency aerospace design. For over 30 years the company has established numerous groundbreaking milestones, including designing and flying the world's first human powered aircraft, the Gossamer Condor, and the first solar powered manned aircraft, the Solar Challenger. AeroVironment designed and built the GM Sunraycer, which set a record for solar powered automobiles, as well as Helios, a solar powered unmanned aircraft built for NASA that set the world altitude record at nearly 97,000 feet. AeroVironment also designed, built and flew the world's first fuel cell-powered aircraft, the Hornet micro air vehicle. Throughout its history, the wind industry through design and testing, site farm ownership. In recognition create successful technology-selected AeroVironment as one



of its innovativeness and ability to based businesses, Fortune Magazine of its 2004 "Cool Companies".



L-R: Gossamer Condor, Solar Challenger, GM Sunraycer, Helios, Hornet

Architectural Wind

As a result of its technical capabilities and experience in the wind industry, AV developed Architectural Wind to provide an attractive, kinetic, clean energy generating technology for use in urban and suburban environments. With a sleek, color-matched series of specially designed, highly efficient and low profile wind turbines, property owners can integrate Architectural Wind systems easily into new and existing buildings. Whereas photovoltaic systems are typically located on top of roofs, out of sight, Architectural Wind installs easily onto the building parapet, operating in plain site as an attractive complement to the building's architecture. In addition, based on its proprietary system design, Architectural Wind turbines rotate at low wind speeds, resulting in a form of *kinetic architecture* that communicates clearly the generation of clean energy.



Minimal Structural Impact

Architectural Wind is designed for quick and easy installation onto concrete *tilt-up* buildings, with little or no structural impact. Because the system is designed to affix to the parapet wall of a building, it typically does not penetrate the roof and places no load on the roof, yet holds fast to the structure. Each module weighs approximately 200 pounds, not including interconnection and safety components housed in or near the electrical room, and measures approximately four feet in height and width. AV offers an optional canopy to ensure visual integration with the structure, as well as a front screen to maximize avian safety.

Contact AV for More Information

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