



PRESS RELEASE

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Wind Harvest International
For Immediate Release

First Small-Sized Vertical Axis Wind Turbine Ready for Certification

Wind Harvest International has submitted the Design Evaluation for the [certification](#) of its 70kW WHI VAWT Model G168 to the ICC-SRCC™'s Small Wind Certification program. The ICC-SRCC oversees the U.S. certification of small and medium wind turbines. The Design Evaluation includes sections on the turbine description and specifications, its fatigue life, its frequency response and its components' capabilities to withstand Class II extreme loads, and follows prototype testing as the first step in the certification process.

"This is a big deal for the advancement of VAWTs," declared [Kevin Wolf](#), WHI's Chief Operating Officer. "The sensors installed on the [G168's prototype at the Nordic Folkecenter](#) in Denmark produced field data that allowed our engineers to validate the four different computer models that combine to make our aeroelastic model, the first one we know being used for VAWTs."

The WHI G168 v.1.1 prototype submitted for Design Evaluation has identical dimensions to version 1.0 but differs in that it uses a direct-drive generator, has more fairings and a variable-height tower, and is a stronger design overall, with all components having a fatigue life of from 20 to 50-plus years.

According to Shawn Martin, [ICC-SRCC™](#)'s technical director, the WHI Design Evaluation is [awaiting review](#). He noted that a Design Evaluation based on a prototype-validated aeroelastic model is a significant step for any wind turbine, particularly for a VAWT.

The [concrete foundation](#) for the Model G168 has been poured by UL at its Advanced Wind Turbine Testing Facility, operated in conjunction with West Texas A&M University. Once the WHI VAWT is installed, in order to achieve full [ICC-SWCC™](#) certification, it must pass a Safety and Function test, produce a Power Performance curve, receive an acoustical profile and continuously operate through a six-month endurance test, all of which will be conducted by UL under the strict guidelines of the IEC 61400-2 requirements.

The WHI VAWT Model G168 is now poised to become the first VAWT to achieve U.S. certification.