SkyWind NG
Next Generation Windpower

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Press Release

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Headline: First Micro Wind Turbine Achieves Full Certification!

Subheading: Start-Up successfully brings wind power to rooftops and radio masts

News:

The German start-up SkyWind Energy, based near Hanover, is the first manufacturer worldwide to achieve full certification—i.e., performance, energy yield, safety, and long-term durability—for a micro wind turbine. These wind turbines are so small that they can easily supply environmentally friendly wind power from the roof of a house or a cell phone tower.

This success was made possible by a patented rotor technology that the company's founder Fritz Unger presented at the famous German "Jugend-forscht" (Young Reseachers) competition back in 2009 and has been continuously developing ever since. The now certified "SkyWind NG" wind turbine (RRP: €2,478) is about the size of a satellite dish and delivers a certified annual production of 615 kWh – around 20% of the electricity requirements of a single-family home.

Fig. 1: Residential home near Nuremberg, Germany

Fig. 2: Ski-Lodge in Argentina powered by SkyWind NG

The tests were conducted in one of the most demanding test fields in the world, located in the US state of Utah. The process, which no other manufacturer had previously been able to complete successfully, took over two years and cost more than €250,000 (290,000$US). In its press release dated August 6th, the International Code Council therefore described the first successful completion of certification as an absolute "*milestone for micro wind turbines*."

Over 10,000 SkyWind systems have already been installed in the last five years. Projects in 100 countries have repeatedly demonstrated the versatility of this small system: houses and halls rely on the proven generator from Germany for their power supply, as do radio towers, ski lodges, and research stations.

Company founder Fritz Unger believes that the technology is now on the verge of a breakthrough. Not only are more and more private customers opting for private wind turbines, but large-scale projects are also in the works. For example, a 60-meter-high 5G radio tower made of wood recently received TÜV approval—powered solely by photovoltaics and micro wind power. Progress is also being made for industrial customers, as many commercial structures like high-bay warehouses offer excellent wind conditions. A tax incentive worth 30% of the purchase price, available through the Inflation-Reduction-Act for certified turbines only, is also expected to help growing demand in the important US market.

Resources:

- ✓ Download Pictures: https://www.dropbox.com/scl/fo/zbl35s19nfxzhvlekkvc7/ALsOcAMUWOMqtfL4ql7upIY?rlkey=sa2yz14r32oor1ltl8lhe1iut&dl=0
- ✓ Press Release by ICC-SWCC: https://smallwindcertification.org/swcc-certification-marks-milestone-for-micro-wind-turbines/
- ✓ Certificate: https://smallwindcertification.org/certified-turbines/skywind-ng

On the following pages, you will find detailed information on the individual aspects, as well as our press contact. We look forward to receiving your inquiry!

About the certification body:

The certification was issued by the Small Wind Certification Council of the International Code Council (ICC-SWCC). This is an organization of the ICC that specializes in small wind turbines and is one of the most experienced certifiers of wind turbines with a capacity of up to 150 kW. As one of the world's leading certifiers, the ICC-SWCC is accredited according to the relevant European standard DIN EN ISO/IEC 17065 “Conformity assessment - Requirements for bodies certifying products, processes and services” and the applicable US standards. The purpose of accreditation according to this standard is to provide explicit proof of impartial, comprehensive, and technically sound conformity assessments. It represents the undisputed gold standard for certifiers.

More information on the certification body: https://www.iccsafe.org/about/who-we-are/

About the technical standard

The certification was performed in accordance with the latest global small wind turbine standard ACP 101-1:2021 “The Small Wind Turbine Standard,” which was developed on the basis of IEC 61400-2 from 2013 and IEC 61400-12-1 for small wind turbines. Among other things, the standard certifies:

a) The *power performance* of the wind turbine at various wind speeds, from the lowest wind speeds to storm conditions, and the resulting *annual energy production*.
b) The *safety and function* of the turbine and its braking systems under all normal operating conditions and during critical incidents such as power failure or component failure.
c) The *long-term durability* with numerous storms and strong gusts.

Additionally the manufacturing quality of the series production is also verified by regular factory inspections at the manufacturer's premises.

More information on the standard: https://cleanpower.org/resources/ansi-acp-101-1-2021-the-small-wind-turbine-standard/

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About the SkyWind NG:

The SkyWind NG is a micro wind turbine, i.e. a wind turbine with a rotor area of less than 2 m^2 and a maximum output up to 1 kW. Shipment and installation are much easier than on conventional, larger wind turbines, thanks to its small size and weight.

Unlike photovoltaics, the wind turbine usually delivers most of its power output in bad weather during autumn and winter – when energy demand is at its highest. With a certified output of 0.6 kW in the standard configuration, the turbine, like a photovoltaic system, can feed the energy it generates directly into the 110 or 230 V AC utility grid. The energy generated thus directly replaces electricity purchased from the grid and saves the associated energy costs. In combination with a photovoltaic system, the operator has energy available in both good and bad weather. Off-grid systems can also use the wind turbine to charge their batteries and replace expensive fuel powered generators.

Keywords: Start-Up, Wind power, Certification, Innovation

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