

Introduction – Skystream 3.7™

The first small wind generator designed specifically for utility-connected residential use, Skystream 3.7™ from Southwest Windpower lets Americans harness wind energy and take control of their energy bills like never before.

Specifically for Grid-Connectivity

Skystream 3.7™ is specifically designed for utility-connected home and business use. In certain states consumers can take advantage of “net-metering” or the sale of unused energy back to the power grid.

Low Cost

A wind power engineering breakthrough, Skystream 3.7™ is the first residential wind appliance to produce energy at a cost (\$.09/kWh) that is lower than the retail rate of many electric utilities. The cost of a Skystream 3.7™ is approximately \$5,400. Depending on the tower and installation costs, wind speed average, rebates and local electricity costs, Skystream 3.7 can pay for itself in as quickly as 5 years.

All-in-One Solution

Skystream 3.7™ offers a simple, all-in-one solution to harnessing wind energy on a residential scale. Different from all other technologies, Skystream 3.7™ is the first all-inclusive wind generator with the controls and inverter built in.

Energy Production in Exceptionally Low Wind

Designed for very low winds, Skystream 3.7™ begins producing power in an 8mph (3.5m/s) breeze with full output achieved at 20mph (9m/s).

Low Profile

Skystream 3.7™ can be mounted on a 35' (10.6 meters) tower. This means a vast number of households on one acre or larger lots will now have access to residential, utility-connected wind energy. Towers up to 110' (33.5 meters) are available. A site assessment is important to determine the best tower height for your site.

Exceptionally Quiet Operation

Skystream 3.7™ operates exceptionally quiet. In fact, Skystream's sound is unrecognizable over trees blowing in the wind.

An Example from California

For a typical home in California, where the cost of energy is \$0.14/kWh, the Skystream 3.7™ will produce 400 kWh per month. This will save a household \$672 per year on their utility bill. At this rate, they will pay for their Skystream 3.7™ system in approximately 13 years (after rebates, payback is as low as 7 years*).

*Assuming \$9,000 installed cost



Skystream 3.7™ Frequently Asked Questions

What is Skystream 3.7™?

Skystream 3.7™, developed by Southwest Windpower in collaboration with the U.S. Department of Energy's National Renewable Energy Laboratory (NREL), is the newest generation in residential wind technology. Skystream 3.7™ has a 1.8 kW rating and is the first fully integrated small wind generator specifically designed for the utility-connected market. Skystream 3.7™ is designed for homeowners looking to reduce or eliminate their monthly electric bills.

Skystream 3.7™ is a down-wind (wind hits the blades on the downwind side of the tower) direct drive (gearless or no transmission) permanent magnet wind generator. Skystream 3.7™ uses an innovative 12' (3.7 meters) rotor and produces approximately 400 kWh per month in a 12mph (5.4m/s) wind.

The initial prototype has been operating at the U.S. Department of Energy's National Renewable Energy Laboratory (NREL) in Colorado for almost two years and has undergone extensive performance, reliability and duration testing in accordance with internationally accepted testing standards.

What will it cost and how long will it take to pay for itself?

Skystream 3.7™, installed, costs approximately \$9,000 to \$12,000, depending on tower height and installation expenses. Price includes the generator, operation controls and inverter. Skystream 3.7™ has tower height options available to accommodate a location's wind resource.

Skystream 3.7™ is capable of producing energy at a fraction of the cost of other small wind, solar photovoltaics or reciprocating engine technology. Skystream 3.7™ is expected to produce energy for under \$0.09/kWh. Depending on the installed price, average wind speed, local cost of electricity and state rebates, Skystream 3.7™ can pay for itself in as little as 5 years.

For a typical home in California, where the cost of energy is \$0.14/kWh, the Skystream 3.7™ will produce 400 kWh per month assuming a 12 mph average wind. This will save a household \$672 per year on their utility bill. At this rate, they will pay for their Skystream 3.7™ system in approximately 13 years (after rebates, payback is as low as 7 years*). Some states and countries offer incentive investment programs that can cover as much as 60% of the expense of a Skystream 3.7™.

To learn more about these and other incentive programs go to: www.skystreamenergy.com.

* Assuming an installed cost of \$9,000.00

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What makes this product unique?

Skystream 3.7™ is the first all-inclusive wind generator with controls and inverter built-in. Skystream 3.7™ was designed for very low winds, reaching rated power at just over 20mph (9m/s). In addition to the innovative technology, Southwest Windpower invested heavily in tooling to reduce component cost. Doing so makes it possible to sell Skystream 3.7™ at a very low price. Its full 1800 watts is achieved at 20mph (9m/s) with a maximum rotor speed of 325 RPM. Because of the exceptionally low RPM, the machine operates nearly sound free.

Skystream 3.7™ can be installed on a range of tower heights from 35' - 110' (10.6 - 33.5 meters). The optional 35' (10.6 meters) freestanding (no guy wire) tower looks much like a standard light pole.

A visually aesthetic shape played a key role in the design to show that a wind generator is not only a clean source of energy but pleasing to the eye.

Who can install this system?

Southwest Windpower recommends installing Skystream 3.7™ at sites with the following criteria:

- **Adequate wind resource:** Minimum average wind speed for Skystream 3.7™ is 10mph (4.5m/s). Ideal sites have 12mph (5.4m/s) average wind or greater.
- **Site free from obstructions:** Clean, unobstructed wind is best for Skystream 3.7™. The top of the tower should be a minimum of 20' (6 meters) above any surrounding object within a 300' (91.5 meters) radius. Although the machine can be installed on smaller lots of land, properties of one acre or more are typically ideal as they will more likely have unobstructed wind.
- **Suitable zoning:** Tower installation must comply with local zoning regulations. It is also advisable to make sure there are no HOA (Home Owner Association) regulations that prohibit the use of towers.
- **Interconnection with utility:** Local utility must allow for interconnection. The 1979 federal PURPA act requires small systems can connect to the electrical grid; but homeowners should consult their local utility.
- **Electricity cost of \$0.10/kWh or greater:** Consumers should consult with their local utility or look at their electric bill.

Where can this system be purchased?

Skystream 3.7™ will be distributed through Southwest Windpower's 20 year-old dealer network. Please visit our website to locate your local distributor.

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