

# Your Wind Assessment

This assessment prepared for

Sample Report

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Flagstaff, AZ 86001

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## About Your Assessment

Our preliminary assessment is based on the best available remote wind data available for your property. This information, plus the environmental and financial estimates contained in this assessment, can help you determine whether wind might work for you. You indicated that you have a large enough property to support the Skystream 3.7. A site visit will be needed to confirm that site conditions match our performance estimates for your property.

## Personal Wind Power

Thank you for your interest in Southwest Windpower personal wind turbines. Your decision to choose personal wind power may be the best decision you ever make. With the Skystream 3.7 from Southwest Windpower, you'll be sure to increase your energy independence, reduce your personal environmental impact and save money on your electric bill.

## Your Assessment

In our opinion, an educated customer is the best customer. With a better understanding of the impact your Skystream 3.7 can have, you'll be better prepared to for your purchase decision. The following customized assessment will inform you on how Skystream 3.7 can benefit you. It is divided into 6 sections:



1: Your Environmental Impact



2: Your Energy Independence



3: Your Financial Savings



4: Your Site Data



5: Recommended System



6: How to Buy

Questions? Call (866) 805-9463 or visit [www.windenergy.com](http://www.windenergy.com)

The content of this assessment is based on a preliminary estimate. Please see page 8 for a full explanation of assumptions used.



## Section 1: Your Environmental Impact

As an owner of Skystream 3.7, you can be confident that you are making the right decision for your family and generations to come. We all depend on electricity for basic comforts, like running the television, air conditioner, refrigerator and even the lights. Much of this energy we consume is generated using fossil fuels, which emit carbon dioxide and other pollutants.

Unlike electricity from fossil fuels, the Skystream 3.7 personal wind turbine converts the wind, an endless and renewable resource, into pollution-free electricity, helping to conserve resources now and for future generations. Based on our remote assessment of your property if you install a Skystream 3.7, you can expect to generate 19,910 kWh over the life of the turbine. Below are some estimates based on this figure.

### Emissions Offset

**CO<sub>2</sub>** 28,321 lbs

NO<sub>x</sub> 116 lbs

SO<sub>x</sub> 113 lbs

Coal 15,928 lbs



### Carbon Reduction Equivalent

 **332**

seedlings grown for 10 years

One coniferous tree seedling planted in an urban setting and allowed to grow for 10 years, sequesters 23.2 lbs of CO<sub>2</sub>.

### Travel Reduction Equivalent



You will offset the CO<sub>2</sub> emissions equivalent to driving your vehicle:

**32,992** miles

### Your Carbon Footprint



You have offset enough CO<sub>2</sub> emissions to reduce your footprint from electricity by:

**30%**

"I'm a pleased customer. I really enjoy our Skystream because I know when it is windy out, it's using that wind. We're interested in the environment. It just seemed like it would be good for the earth and take a little bit of strain off the grid. I'd do it again. Aesthetically it is very nice. I love my wind turbine."

—Anita Shaw, Sandy Lake, PA

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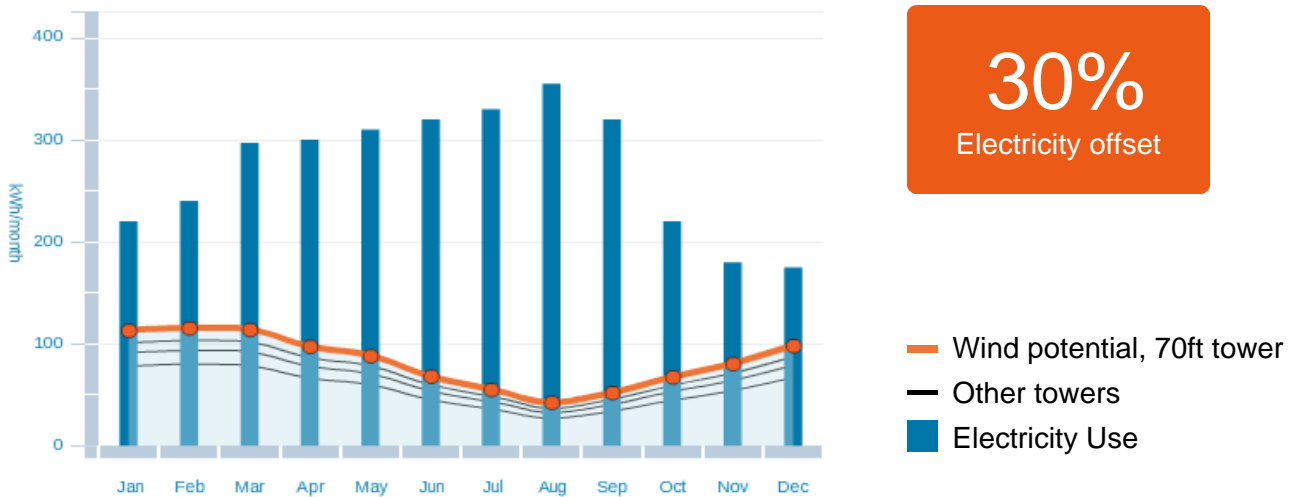
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## Section 2: Your Energy Independence

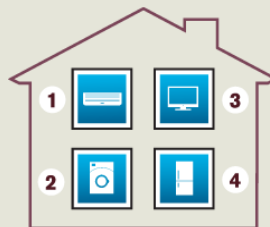
When you buy electricity from your utility you have little control over where it comes from or how much you'll pay. But with a Skystream 3.7 wind system, you'll know power always comes from the clean, natural wind that blows on your property. With personal wind power, the power is truly in your hands. Based on our remote assessment of your property, you'll generate approximately 995 kWh a year.

### Energy Production and Use by Month



### Energy Use Equivalents

Based on your estimated annual production of 995 kWh, each year you can expect to save the equivalent of:



- 1** 284 hours of air conditioning
- 2** 2,342 loads of laundry
- 3** 5,530 hours of entertainment
- 4** 1,373 hours of refrigeration

"Energy independence means to us using the wind to supplement our electrical needs so that we use less fossil fuel and depend less on foreign oil. When the wind blows and we see the Skystream blades turning, it's not only producing electricity, but a cleaner environment, not only for us but also for future generations. My wife and I are pleased that we can be part of the solution and not the problem."

—Gene and Sandy Schappell, Rochelle, TX

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## Section 3: Your Financial Savings

A Skystream 3.7 personal wind turbine is a wise financial investment. Since wind is right for you, you'll reap the financial benefits of owning a Skystream, which include reduced cost of electricity, increased property value, and a respectable long-term return on your investment.

Based on our remote assessment of your property if you install a Skystream 3.7 on your property, you'll generate approximately 995 kWh a year, which yields:

### Cost of Energy

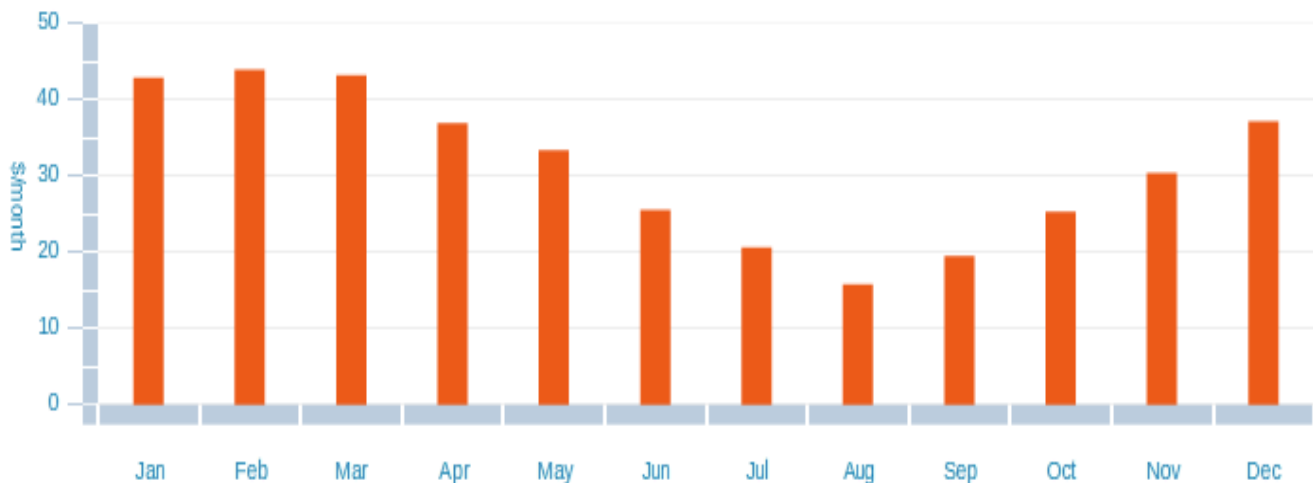
**19.9 ¢/kWh** Cost of energy from Skystream

**42.5 ¢/kWh** Lifetime utility cost of energy

**35.6 ¢/kWh** Average based on relative use of energy from Skystream & utility



### Projected Monthly Cost Savings



After installing Skystream and implementing energy-saving features in their home, Victoria and Ron Cox of Oxford, OH, now see an average of 40-50% savings on their electric bills, and project at least a 6% return on their investment in Skystream.

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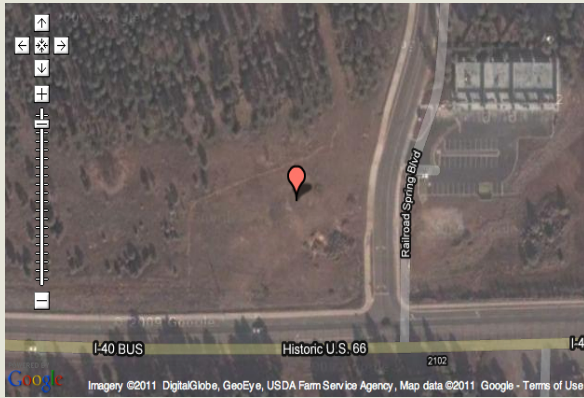
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418  
620  
796

## Section 4: Your Site Data

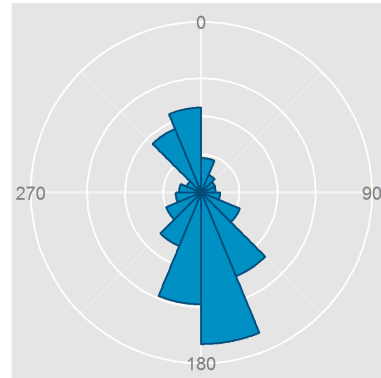
### Location

W Rte 66  
Flagstaff, AZ 86001



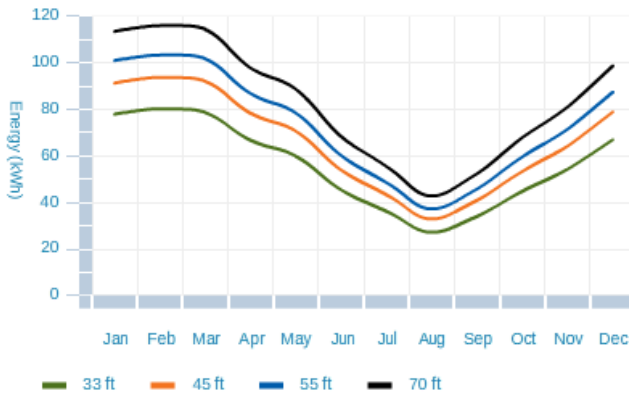
### Power Rose

This chart shows the dominant wind directions for your location and the amount of power they should produce. This can help with turbine placement.



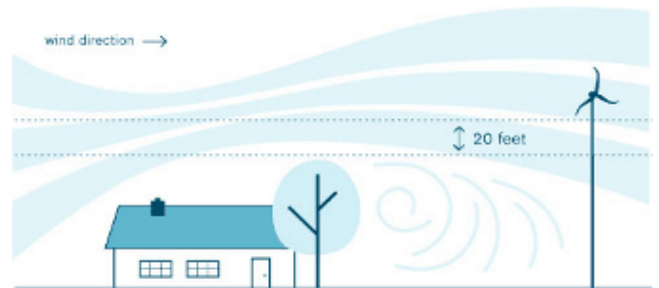
### Energy

This chart shows the relative energy production for the tower height you selected (70ft) compared with other available towers.



### Importance of Siting

Siting a wind generator is extremely important to the performance of the machine. The ideal location for a wind turbine is 20 feet (6 m) above any surrounding object within a 250 foot (76 m) radius.



"Here in Central Oregon the wind blows almost every day this is ideal for Skystream windmill. We purchased Skystream based on good pricing, easy to install for grid connection, and reliability with 5-year warranty."

—Bill and Susanne Watts, Madras, OR

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## Section 5: Recommended System



### Skystream 3.7

We recommend the Skystream 3.7 for efficient, quiet operation, reliability and overall performance. It's the most efficient grid-connected personal wind turbine ever produced, backed by Southwest Windpower, the worldwide industry leader in personal wind turbines. Why Skystream 3.7?

- **Performance:** In low to moderate winds, Skystream produces more energy than any turbine in its class.
- **Blends In:** Organic design, quiet operation and simple towers that look like street light poles, help Skystream blend into its surroundings.
- **Safety:** Sophisticated controls allow for efficient and safe operation, even in high winds. International certifications, including a UL approved inverter, ensure Skystream can be trusted.
- **Engineered tower systems:** All Skystream systems include professionally engineered towers made specifically for Skystream. All towers are safe and can withstand almost any wind nature can deliver.
- **Connectivity:** The PC-based Skyview™ system for Windows lets you create a custom monitoring experience from your home, office or anywhere with Internet access.
- **Warranty and Support:** All Skystream systems are installed by factory trained dealers and backed by a full five year warranty.

### Skyview



### Southwest Windpower – the worldwide leader

Skystream 3.7 comes from Southwest Windpower, the industry leader in personal wind turbines since 1987. Over 160,000 of our personal wind turbines have been installed worldwide. Our award-winning products have been developed in conjunction with the US Department of Energy, NREL, USDA and other leading organizations and agencies. Our turbines are proudly designed and built in Flagstaff, Arizona, USA.

"To this day I still do not know how you made such a reliable turbine. It is very reliable, even in the high winds we've seen. It makes no sense NOT to have one."

– John Girard, Osborne, KS

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## Section 6: How to Buy



### Get your Skystream 3.7: Just a few simple steps

You've just completed the first step by reading this proposal. The next step is to call us toll free at (866) 805-9463 to talk with a personal wind energy expert. In most cases, a local representative will visit your property for a detailed look. When you are ready to purchase, we'll schedule an installation.

### What can I expect?

Your local authorized installer will handle all permits with local authorities and your electric utility. The installer will excavate a hole for the foundation and wires, pour concrete and connect a few wires to your electric panel. After the concrete cures, it usually takes no more than a day to raise the turbine and start producing energy.

### Five year warranty

After installation, your turbine is backed by a full five-year warranty, and any service will be performed by a local field technician. You'll feel at ease knowing your system is backed by Southwest Windpower, the worldwide leader in personal wind turbines since 1987.

### Thousands of households already harness the wind. Get started today.

Skystream 3.7 is the most advanced, most efficient and reliable personal wind system available. We hope you've enjoyed learning about how this system will work for you. Please call us (M-F, 8am-5pm Arizona time) to set up a free, no-obligation conversation with a personal wind energy expert.

#### Your local Installer

Absolute Wind Power

Flagstaff, AZ 86001

1-800-883-5505

info@absolutewindpower.com

#### Get Started - Free Consultation

Call Toll Free **(866) 805-9463**

[sitelook@windenergy.com](mailto:sitelook@windenergy.com)

"I was so tired of this wind. But I don't feel this way anymore. I say let it blow!"

—Jean Fuller Young, Goliad, TX

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## Assumptions in this Proposal

All energy, environmental and savings estimates in this proposal are preliminary and subject to change. In most cases a consultation and site visit will be necessary to confirm these estimates.

- Financial estimates assume that the incentives applied within the software are available, and that the purchaser is eligible for and will receive them.
- The analysis within this report uses the turbine tower height chosen by the user. Different tower heights will affect turbine performance and cost, thus affecting financial savings.
- Savings assume a 20 year turbine life.
- 5% annual escalation is assumed for utility cost of energy.
- Savings are based on replacement of the turbine's inverter every 7 years.
- Wind data is based on climate models and may not perfectly describe the actual wind behavior at your site.
- Analysis assumes that your electricity usage remains constant for the life of the system.
- Wind energy predictions assume laminar air flow over the Earth's surface.
- Power rose based on wind behavior at the meteorological station closest to the project site.
- Wind energy predictions assume that your site's wind speed frequency can be characterized by a Weibull probability density function.
- Wind energy predictions are based on the estimated wind in a typical meteorological year. Unpredictable variability will exist from year to year.
- The wind resource data used in these calculations is based on the wind within a 200m to 2.5km radius of the project site.
- The wind resource analysis assumes that the project site is located in an area with low surface roughness (e.g. a grassy field).

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