

RENEWABLE WIND ENERGY

This is a Skystream 3.7 wind turbine. It produces electricity from the wind.

The system outputs power at 240 volts and it ties into a double pole breaker in our electric panel. When it produces power we use less from the “grid.” If it produces more than we use then our meter spins backwards and credits our account. We have a “net metering” agreement with our utility provider—Grayson-Collin Co-Op.

There are no batteries and it will automatically disconnect its power output should the electric grid lose power. This protects the electric company employees from unexpected power on the grid.

We are one of 40 test homes in the US for this new unit developed by Southwest Windpower and the National Renewable Energy Lab (NREL).

Our area (North Texas) is in a moderate wind zone. If we received the full average wind speed for our area (10.7 mph) then we could produce about 300 kWh/month of power.

Our site is not ideal as we have trees too close to the turbine, so it will reduce our output. We are testing, learning, and reporting back to Southwest so they can continue to improve the unit.

The unit costs approx. \$5,500 (tower, generator, and blades) and you can expect another \$3,000 in hookup costs. We got a significant discount for being a test home. There are no test units remaining as they have just gone into full production.

SKYSTREAM 3.7 by Southwest Windpower

Rated Capacity: 1.8 KW

Estimated Maximum Monthly Energy Production: 300 KWh per month at 10.7 MPH (avg speed in north Texas)

Weight: 154 pounds

Tower: Towers from 35-110 feet are available; our tower is 35 feet tall

Technical Specifications: See back

Skystream web site— www.skystreamenergy.com

Southwest Windpower— 928.779.9463

Our house web site with additional info— www.enerjazz.com/house