

## Major Developments in Roof Wind Turbine Power

The world is potentially at the point of being self sustainable. We have the technology to develop energy to power houses with sustainable resources such as solar and wind but the cost of these products are still what is holding us back. One such product which is making leaps and bounds is the roof wind turbine. These have been on the market for quite a while but with recent developments they are much more affordable and efficient.

Previous roof wind turbine models were overly bulky, not highly efficient and quite limited in their operating conditions. The period of time to pay back these models in regards to the money you would save using them was extremely long due to their cost to buy and install. Taking into consideration their maintenance costs this pushed the return period even further back. The newer roof wind turbine models can usually be installed by a good electrician and a far less costly.

As a whole the small wind turbine industry is booming. It was up by about 70 percent last year on the year before. The roof wind turbine market is starting to push this even further as it is taking a larger market share. People are seeing the light literally. they are getting almost instant independence from the grid with a good roof wind turbine installed.

The new model roof wind turbine products have made a big impact on the length of time to earn back the cost to buy and install. For older models you were looking at about 20 years before you saw a return, with the new models you are looking at about a quarter of that.

Until the 31st of December 2016 the government has an incentive program running for small scale wind power systems. Roof wind turbines with a capacity under 100 kilowatts are granted a 30 percent rebate.

The latest models of wind turbines have eliminated the need for a tower to be erected to hold the devices as they now attached directly to your rooftop. This has gotten rid of two main problems. One being the need to get approval to erect a tower and the other reducing the costs dramatically as an expensive tower is not required.

Traditional wind turbines relied on gears and a gearbox to create the electricity. For a traditional wind turbine it takes a wind of 7-8mph just to overcome the resistance of gears. This resulted in a loss of up to 25% in efficiency. Modern designs have replaced gears with hubs and bearings. Instead of a gear box magnets are now used to generate electricity. This has also added to the efficiency of modern roof wind turbine devices. Other advances in efficiency include larger wind acceptance areas and replaceable blades as damaged blades will reduce their effectiveness.

## About the Author

If you are thinking about buying a roof wind turbine, solar panels or any other sustainable energy type product make sure you understand what you are buying first by going to [roof wind turbine](#) and [wind power electricity](#)

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