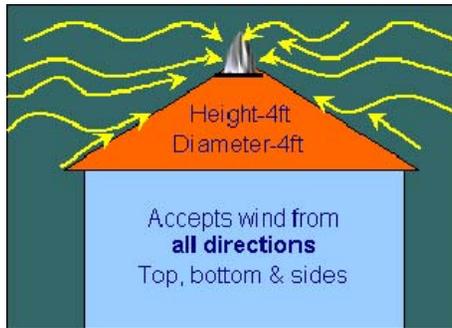


## Home Renewable Comparisons

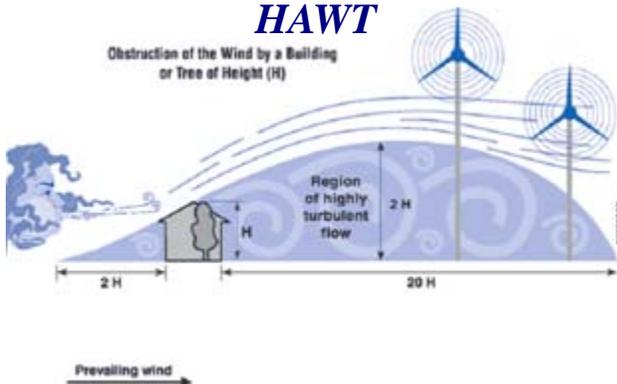
Technology	 MAG-WIND	HAWT	Solar
Productivity / \$	High	Medium	Low
Economic Model	3.5 ¢/w	5.5 ¢/w	8.0 ¢/w
Installation Cost \$	\$15 K	\$45 K	\$80 K
ROI	3-5 yrs	15 yrs	20 yrs
Space Requirements	Rooftop 5 sqf	Rural 1 acre	Rooftop 50 sqf
Noise Pollution	None	High	None
M & O	Minimum	Medium	Minimum
Market Obstacles	Certification	Economics, Space	Economics, Low Productivity

The above mentioned figures are based on a best-case scenario. Actual results may vary. Factors affecting results include: location, average wind speed, altitude, size and shape of roof, and the amount of vertical rise in the roof. For solar energy, variables include the amount and intensity of sunshine, which is seasonal in nature.

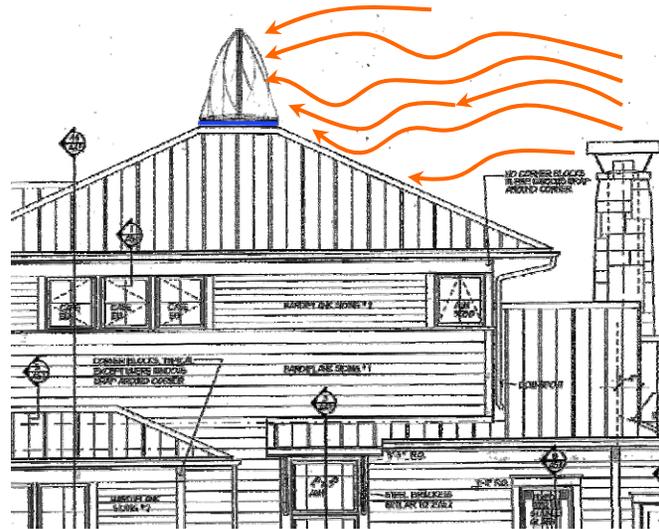
### Mag-Wind



### HAWT



### Roof-Mounted Vertical Axis Wind Turbine



MW 1100



Mag-Wind Company LLC

4100 W. Eldorado Pkwy. Suite 100  
#155

Phone: 214 764-6872

Email: [rthompson@mag-wind.com](mailto:rthompson@mag-wind.com)  
[www.mag-wind.com](http://www.mag-wind.com)



Mag-Wind Company LLC

[www.mag-wind.com](http://www.mag-wind.com)

## The Evolution Of The Wind Turbine

People have been harnessing the energy of the wind in this country for over a hundred years. In the late 1800s and early 1900s, millions of windmills were installed on farms to pump water from deep underground. Large-scale commercial wind energy development began in California in the early 1980s, and the most common image of modern wind energy is a large array of turbines, generating power on a windy ridge, pass, or prairie.



There are 21 million US homes and 4.6 million commercial buildings located on properties of one or more acre, 60% of them in areas with Class 2 winds or better. Why, then, are there not more small wind energy systems already in place?

Part of the reason is that low production volume and historic lack of public funding have led to relatively high costs for this technology. Efforts by the US Department of Energy and state agencies to promote small wind energy have only recently begun to help. Public awareness has been focused on other technologies. Other barriers include zoning regulations with height restrictions of 35 feet and concerns about potential noise from turbines. The process of obtaining approval for interconnection with the utility grid can be expensive and time-consuming.

Now there is Mag-Wind, a small modern wind electric system; a single turbine, much smaller than other wind turbines but much more efficient than the old-fashioned windmill, producing clean, affordable electricity for home, farm or business.



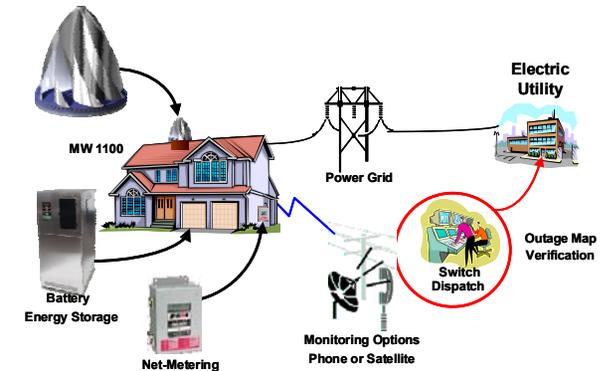
## Summary

- Productivity: est. 1100 kWh/month in a 13 mph average wind
- Name Plate: Expected 5 kW rated output in 28 mph wind at sea level with 80% relative humidity.
- Cut-In Speed: Less than 5 mph.
- Tolerated Speed: + or – 100 Mph.
- Economics: Fully burdened cost over 10 years is approx. 3.5 cents per kW
- Cost: Estimated \$15,000 installed, all parts included
- ROI: approximately 5 years or less.
- I M & O: Minimal
- Deployment: Rooftop Urban or Rural Setting.
- Height 4ft, width 4ft at base, weight <250 lbs.
- Minimum Estimated Production Run 2006: 3,500 Units
- Productive 24 hours per day when wind is blowing; contrast solar approximately @ 8 hours
- Environmentally safe
- AE & THBA has indicated a strong interest in a pilot project.
- Can be rapidly deployed in off or on-grid configurations
- Captures and converts wind through 220 degrees of its base rotation due to the 'sail' vane design, which is a high efficiency wind to mechanical ratio



*Pointed in the right direction*

## Affordable, Clean Energy for Homes, Farms & Businesses



The National Renewable Energy Laboratory (NREL) — ‘Keeping Up with the Rapidly Growing Wind Industry’—leading article on NREL website: “Explaining why wind energy is growing faster than other electricity sources, Robert Thresher, director of the National Wind Technology Center (NWTC) at NREL said, “With the current fuel prices, wind is the most cost-effective energy source out there, and it’s a clean, domestic, renewable resource that can mean the United States from its dependence on foreign fuel sources.”

### Mag-Wind Company LLC

4100 W. Eldorado Pkwy. Suite 100  
#155

Phone: 214 764-6872  
Email: rthompson@mag-wind.com  
www.mag-wind.com