



# Small wind electric systems

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Small wind electric systems require planning to determine whether there is enough wind, the location is appropriate, wind systems are allowed, the system will be economical. | Photo courtesy of Bergey WindPower.

Small wind electric systems require planning to determine if there is enough wind in your area on a consistent basis, if the location for the system is appropriate for harnessing wind energy, if zoning ordinances and building codes allow wind systems in your area, and if the system will be economical with all of these elements taken into consideration.

You can find out about the zoning restrictions in your area by contacting the local building inspector, board of supervisors, and/or planning board. They can tell you if you will need to obtain a building permit and provide you with a list of requirements.

In addition to zoning issues, your neighbors or homeowners' association might object to a wind turbine that blocks their view. They also could be concerned about noise. Most zoning and aesthetic concerns can be addressed by supplying objective data.

To help you analyze the economics of a small wind electric system and decide whether wind energy will work for you, you'll want to work with a qualified installer to estimate a number of items, including:

Finding these estimates will help you determine whether wind energy is a good option for your site. If it takes too long to regain your capital investment--the number of years comes too close to or is greater than the life of the system--wind energy will not be practical for you. A professional installer should be able to assist with many of these questions. Resources such as DOE's Consumer Guides for Small Wind can also help you get started on some of these estimates.



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