

SELECTING THE RIGHT TOWER HEIGHT

Making Sure You Get the Power You Need.

WHERE IS THE DOMINANT WIND?

The first step to selecting the right tower height is determining where the dominant wind comes from. In North America, dominant winds generally flow west to east. Check your local weather report to be certain.



ADD 20FT TO TALLEST OBSTRUCTION

Once you determine the height of the tallest obstruction, add minimum 10ft, ideally 20ft. This number is your minimum tower height for the turbine. Our towers are 22ft, 44ft, 55ft, and 66ft; be sure to round up!



IS THERE ANYTHING BLOCKING THE WIND?

Once you establish where the dominant wind originates from, evaluate any possible obstructions in that direction. Estimate the height of these obstructions as you will need a minimum of 10ft, ideally 20ft of clearance for the turbine. Here are some base estimates:



Each storey is ~8ft tall



New trees are usually between 8 and 10ft, established can go up to 100ft



20ft + 20ft = 40ft



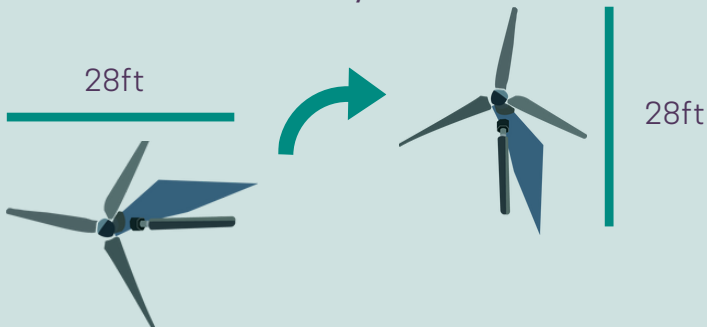
44ft tower

DO YOU HAVE THE AREA FOR INSTALLATION?

Our turbines are assembled horizontally and then raised. It is important that you have the area to build the turbine flat and then raise it. As an example, a 44ft tower will need at least 44ft of land on which to be constructed before being raised.

Example:

Mary has no obstructions surrounding her property so she selects a 22ft tower. In addition, the turbine has a 6ft diameter. With a total length of 28ft, she chooses to assemble and install her turbine in the middle of 60ftx40ft property. She will have the space for horizontal assembly.



Check out our blog post which depicts the best mobile apps for measuring tree heights!

i.e. Nova Scotia, Canada



	Mean Wind Speed:	kWh/Year
Height: 22ft	22.7 km/hr	2531
44ft	23.8km/hr	2780
55ft	24.2 km/hr	2897
66ft	25.2km/hr	3017