



Congratulations! You have just purchased one of the most efficient and long-lasting wind turbines on the market! This manual will guide you on how to take care of your Raum Energy 1.5kW wind turbine system.

The Raum Energy 1.5kW wind turbine requires no scheduled maintenance. However, Raum Energy recommends you lay the tower down and methodically inspect the turbine and tower at least once within the first year of operation. In addition, after a big wind storm, engage the turbine break and closely inspect the blades and tail. This can be done from the ground with a set of binoculars.

Things to note are:

1. Inspect the blades. Note any unusual wear or cracking. If a blade shows a crack, we recommend you replace all three blades.
2. Inspect the tail. Note any unusual wear or cracking. If the tail shows a crack, we recommend you replace it.
3. Note any excessive grease bleeding from the bearings. If there is an abundance of grease and the blades are difficult to turn, it is likely a bearing has been contaminated.
4. Inspect the mechanical housings for cracks.
5. Inspect the furling spring. Spray lubricant such SP-400 by CRC on the spring. DO NOT use WD-40.
6. Inspect the electrical cable that hangs from the turbine. Note any excessive wear/weathering along the cable. Occasionally, the turbine cable may need to be untwisted and plugged back in. Be sure it is calm before unplugging/replugging the turbine. **You may have to untwist the cable every few months, depending on your local wind conditions. Never lash the cable to the tower – it is meant to hang free the length of the tower.** The more wind turbulence at the site, the more the cable needs untwisting.
7. Inspect the tower legs, tower struts and structural components. Note any cracking or loose components.
8. Inspect the fasteners and be sure they are tight.

Note any issues you might see. If you are concerned about a component's condition, be sure to contact your local dealer. The manuals for Raum Energy grid-tie inverters and battery chargers are available on the website:

www.raumenergy.com