



1000 kwh wind turbine

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The two-blade design also simplifies construction. Unlike three-blade turbines, the two blades are attached to the hub before lifting the nacelle. This makes ground assembly safer, faster, and easier to QA. Even with an attached rotor, the nacelle can be lifted in higher wind speeds, says the company, thereby reducing weather delays. Reduced component complexity and a relatively roomy nacelle interior (0.8-m wide passage around the machinery) make service and maintenance easier.

The company says gearbox durability is key to turbine reliability. Nordic says gearboxes in its N1000 show low wear even after years in service. Several design features reduce gearbox loading, such as the lower hub weight, which in turn reduces drive train loading. That unusual teeter or pivot-hub dissipates loads before they reach the gearbox. Main drive-shaft bearings are built into the gearbox for greater strength. A cylindrical steel housing holds the gearbox, drive shaft, and generator in alignment, forming a lightweight, load-absorbing unit.

Because of the flexible, two-blade design, the tower and foundation are lighter than those needed for more rigid and weightier turbines. The company says that overall, the N1000--including tower, nacelle and blades--is as much as 20% lighter than other turbines with the same output.

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