

Turby





This windturbine, especially designed for use in the built-up environment (developed areas) on the rooftop of high buildings, the Turby, is a revolutionary new concept in the wind-turbine world/industry.



It combines the best qualities of the horizontal windturbine with the simplicity of the vertical axis windturbine. A high aerodynamic efficiency, a low sound level, no noticeable vibrations and maintenance free are its major features.



The long cherished dream of father Dick and son Martijn Sidler.



Dick's involvement in wind energy for over 20 years, scientific research, testing, building of prototypes, again testing, disappointments, starting all over again etc. etc. have resulted in this unique windturbine.



The enthusiasm of Shell who, in the early stages, appeared decided to participate, combined with the scientific support of the Delft University of Technology who offered their knowledge of aerodynamics as well as their reserach facilities and the participation of IPA Composites with their excellent relation with the University of Gent who added their knowledge of composite constructions, have been of immeasurable importance.



Turby will be ready for it's big job from now onwards.



Several Turby's are is operation in a variety of places in The Netherlands and will venture further into Europe shortly. Electricité de France together with the Accor hotelchain, the Gallions project in London and holiday resorts in the Mediterranean want to install Turbys as well.



Two American companies have jointly submitted a prequalification to place 800 Turby's in the tower of the Freedom Tower, the new World Trade Center in New York and another 102 Turby's are integrated in the design for the new JET stadium in New York.

An English architect calls Turbys “an architectural statement”. William McDonough, a well known American architect, suggested to make Turby the worldwide symbol for renewable energy. The attached photos show that their enthusiasm is justified.

What is Turby’s secret?

Turby is able to utilize wind from any direction, including wind not entering perpendicular to the axis but for instance passing at an upward angle as is the case when passing over a building and convert that energy with an even higher efficiency into electricity. No other turbines have been found in the literature that are equably suited to utilize the ever-changing wind within city limits. Constantly shifting winds, a serious problem for the normal wind turbines, are an extra stimulant for Turby. Years of research have yielded this final result.

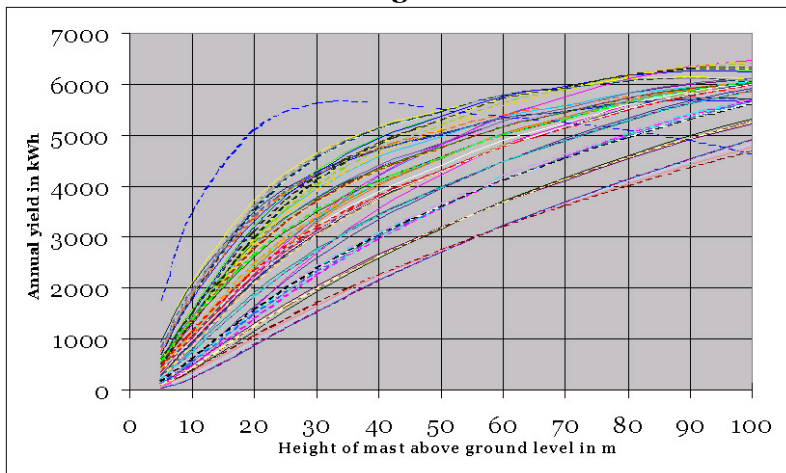


Since March of 2002, a number of prototypes have been field tested in different situations. On roofs of high buildings, on the flat lands in Zeeland along a highway, etc. We learned a lot from this and found solutions for problems which appeared during these fieldtests. Since the beginning of 2005 five Turby's are working in the final version at different locations in the Netherlands. At the end of 2006 we expect their number to have grown to 75.

There are no complaints concerning noise or other adverse effects. The data collected, although limited, confirm the power curve measured in the windtunnel. We have mastered the installation technique. Turby runs smoothly.

Could Turby be mounted on any building?

On buildings with six – or more floors Turby does an excellent job but it can also be used effectively on dykes, bridges and locks. To give an impression of the spread the chart below shows the annual yields for a hundred different areas in the Netherlands on different heights.



Should you desire more information regarding the Turby, please mail your name and address to mail@turby.nl and we will send you an extensive set of information by return mail.