

Each design tool is titled with a number and test – standard or optimised. The number represents the blade diameter of the turbine in millimetres and the text corresponds to the standard design, represented in [1] or the optimised design by the design tool. For example, file '3000 Optimised' is the optimised design of the 3000mm turbine.

The standard designs are a copy of the designs set out in [1]. The optimised designs are based upon the standard design but, the magnet dimensions, winding wire gauge and coil dimensions are altered by the Excel solver tool to yield a lower estimate for the levelized cost of energy.

The Comparison file compares the outputs of standard and optimised designs for each blade diameter analysed.

[1] Piggott, H. A Wind Turbine Recipe Book: The Axial Flux Windmill Plans Metric Units Edition, Hugh Piggott, 2014.