

POWER CURVE DETERMINATION FOR A SMALL SCALED WIND TURBINE

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The wind turbine's power curve shows some specific parameters of the wind turbine: the start-up wind speed (the value of the wind speed when the turbine's rotor is starting to rotate); the cut-in wind speed (the value of the wind speed when the wind turbine is starting to generate the electrical power); the nominal wind speed (the value of the wind speed when the wind turbine is generating the nominal rated electrical power); the cut-out wind speed (the value of the wind speed when the turbine's rotor is stopped [3, 4, 5].

The paper purposes to identify the theoretical and experimental power curve of a small scaled wind turbine.

The variation of the power curve (theoretical and experimental) is presented in the figure 1.

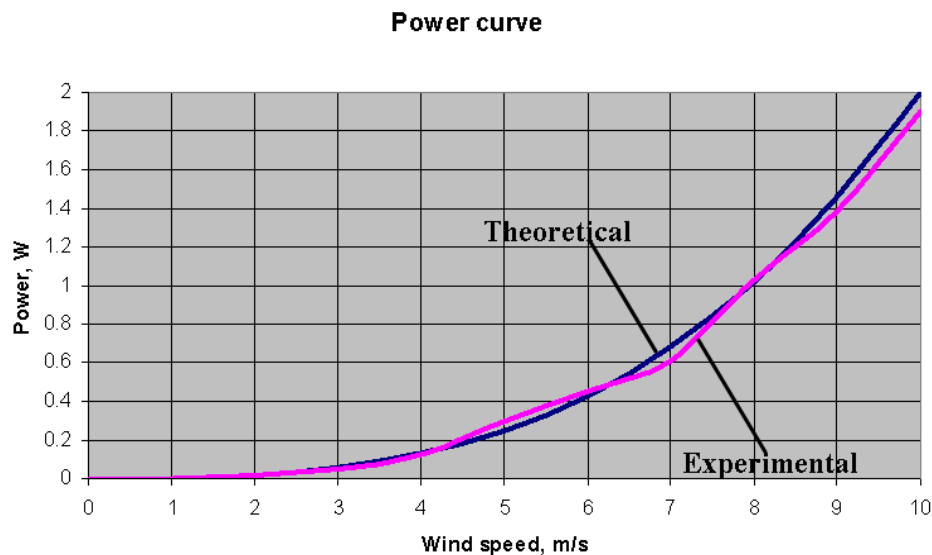


Figure 1: The power curve

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