Abstract

The main aim of this research is to provide an in-depth analysis on the relationship between manufacturing design, trends and operation within the wind turbine industry. This consists of an analysis that will provide the trends and operation design used in wind turbine manufacturing industry. In this research, 1634 manufacturers' wind turbine products data have been collected. The attributes of wind turbines such as rotor diameter, number of blades, rated power, cut-off speed, cut-in speed and swept area data has been collected. The wind turbines divided into categories and onshore/offshore analysis has been done. The relations between attributes are obtained and the comments have been done.

Key Words: Wind turbines, manufacturers, cut-in, cut-off speed