

A PRACTICAL WAY TO ANALYZE WIND TURBINE DATA : WIND POWER DATA READER

Bekir Güler

Fatih University, Istanbul, Turkey
bguler@fatih.edu.tr

Ahmet Nayır

Fatih University, Istanbul, Turkey
anayir@fatih.edu.tr

Keywords: Smart grid, Renewable energy, Data analyzer.

ABSTRACT

To meet the growing demand, new ways are being sought to find new alternative sources. But, finding an alternate source is not enough, due to the fact that the power source should be sustainable and feasible. To be able decide whether it is efficient or not, we need to be able to analyze production rate. That is why data monitoring is an important area for energy production. We are able to gather raw data from power generator infrastructures. But these data is only raw data. We need a visual and interpretable ways to analyze, to utilize and to predict the efficiency of production. This paper focused on data monitoring part of energy production which output by wind turbines. The main purpose of this work is to provide to convert raw data into more readable and more analyzable format. We have prepared Wind Data Analyzer to visualize data by using elasticity of OOP (object oriented programing) to wind turbine data.