

Weibull and hargreaves methods to determine the wind and solar energy - Case study

Abstract

This paper presents a case study of Weibull and Hargreaves methods used to determine the wind speed characteristic and solar radiation pattern in Perlis the northern part of Peninsular Malaysia. These two methods are then used to analyze the data of wind and solar that recorded using Davis Vantage Pro2 Weather Station. This paper also discusses the correlation of these two methods in determining the wind and solar energy. Through this case study, this paper conclude that these methods is highly recommended to determine and analyze the potential of wind and solar energy.

Keywords

Hargreaves; Solar energy; Weibull; Wind energy