

S.NO	Paper Title	Author	Journal Name	Publication year	Description
1	Predicting the Energy Output of Wind Turbine Based on Weather Condition	P. R. Anisha, C. Kishor Kumar Reddy & Nuzhat Yasmeen	Springer	2021	In this paper, they have connected a relationship with different parameters to the energy output. To deal with the interaction of the different parameters, we use random forest regression of machine learning algorithms.
2	Energy Modelling Output of Wind System based on Wind Speed	Abdelkader Harrouz, Ilhami Colak, Korhan Kayisli	IEEE	2019	The main problem in wind energy is that it become quite difficult to predict the power output exactly and this hinders the accuracy. In this paper, there are three different wind models are modelled and simulated with choosing the complete and correct models.
3	A review of wind power and wind speed forecasting methods with different time horizons	Saurabh S. Soman, Hamidreza Zareipour , Om Malik	IEEE	2010	This paper provides insight on the foremost forecasting techniques, associated with wind power and speed, based on numeric weather prediction (NWP), statistical approaches, artificial neural network (ANN) and hybrid techniques over different time-scales.
4	Day-Ahead Wind Power Forecasting in Poland Based on Numerical Weather Prediction	Bogdan Bochenek , Jakub Jurasz , Adam Jaczewski , Gabriel Stachur, Piotr Sekuła	MDPI	2021	This paper examines the possibility to predict day-ahead wind power based on different machine learning methods not for a specific wind farm but at national level.
5	Predicting the Wind Turbine Power Generation based on Weather Conditions	S Preethi; H Prithika; M Pramila; S Birundha	IEEE	2021	In this paper, an end-to-end web application has been developed to predict and forecast the wind turbine's power generation based on the weather conditions. The prediction model has been developed using Bidirectional Long Short-Term Memory which is a unique kind of RNN (Recurrent Neural Network).

6	The Use of Machine Learning and Performance Concept to Monitor and Predict Wind Power Output	Kelvin Palhares Bastos Sathler; Athanasios Kolios	IEEE	2022	Here, the model to analyse the performance through Meteorological Mast Data (Met Mast Data) and then uses it as an input to monitor and predict power output. As a result, this model achieves high accuracy and can be key to understanding the wind turbine behaviour throughout its lifespan.
7	The Intelligent Methods Used in Prediction the Wind Speed and Output Power of Wind Farm	Xinyan Zhang; Chongchong Chen; Weiqing Wang; Yi Dai	IEEE	2012	In this paper, for prediction method they used BP neural network, wavelet BP neural network. The simulation results shows that the method used in this paper can give a better prediction.
8	Forecasting of Wind Turbine Output Power Using Machine learning	Haroon Rashid; Waqar Haider; Canras Batunlu	IEEE	2020	In this paper, they have predicted the output power of the wind turbines using the random forest regressor algorithm. The model is trained using the data from 2017. The wind direction, wind speed and outdoor temperature are used as input parameters to predict output power.