

Abstract

The one of target in PT. PLN distribution of West Java and Banten is to minimize losses. So, each APJ, especially PT. PLN APJ Depok, usually make targeting Kwh beli, Kwh jual, ant losses for a year. With load forecasting that used by people, we hope we can set up a plan to reach losses that we want.

Neural network can use to forecast something that will happen in the future, based on something that happen in the past, especially for prediction load. This final task, applying one of neural network architecture,. It is recurrent neural network with real time recurrent learning algorithm that I use to prediction load (Kwh jual) for each month. Then I will estimate percentage error of this application.

Based on test, this application can use to be an alternative for load forecasting problem. But the performance of this application only to forecast one month. With unit input = 9 and unit hidden = 2, this application provide small error.

Keywords: *Losses, Neural network, Recurrent neural network, Real time recurrent learning.*