

## ABSTRACT

Prediction of electricity consumption is the right first step to overcome the problem of electricity consumption needs in various household sectors. Prediction of electricity load consumption is also very much needed in the development of the electricity smart network in the future.

In this research, a website-based system for predicting electrical loads is designed to predict the electrical load and the desired time-lapse cost. In making this website, the prediction method that will be used is the Extreme Gradient Boosting (XGBoost) method and the streamlit framework is used in this research to create a website.

The data used in the prediction of daily electricity load consumption per hour (24 hours) is 38 days, from March 22, 2020 to April 28, 2020. The prediction results obtained are for 6 days for April 23 to April 28 which produces a value with MSE (Mean Square Error) of: 9.861 and MAE (Mean Absolute Error): 0.055 MAPE (Mean Absolute Percent Error): 0.1414.

**Keywords:** prediction, load, *extreme gradient boosting (XGBoost)*, website, streamlit.