Authors in [Study and analysis of SARIMA and LSTM in forecasting time series data] explained how can different features such as humidity (positive correlation) and temperature (negative correlation) be highly correlated with energy consumption, which can help in predicting the energy consumption on a daily basis using ARIMA, SARIMA and LSTM. In return this can aid for a better understanding of how to reduce outage and avoid utilities interruption.

The dataset considered in this research was from the energy consumption readings for a sample of 5,567 London Households that took part in the UK Power Network Led Low Carbon London project between November 2011 to February 2014.

Eventually results indicates that LSTM found to be better in performance compared to ARIMA and SARIMA in term of MAE score.