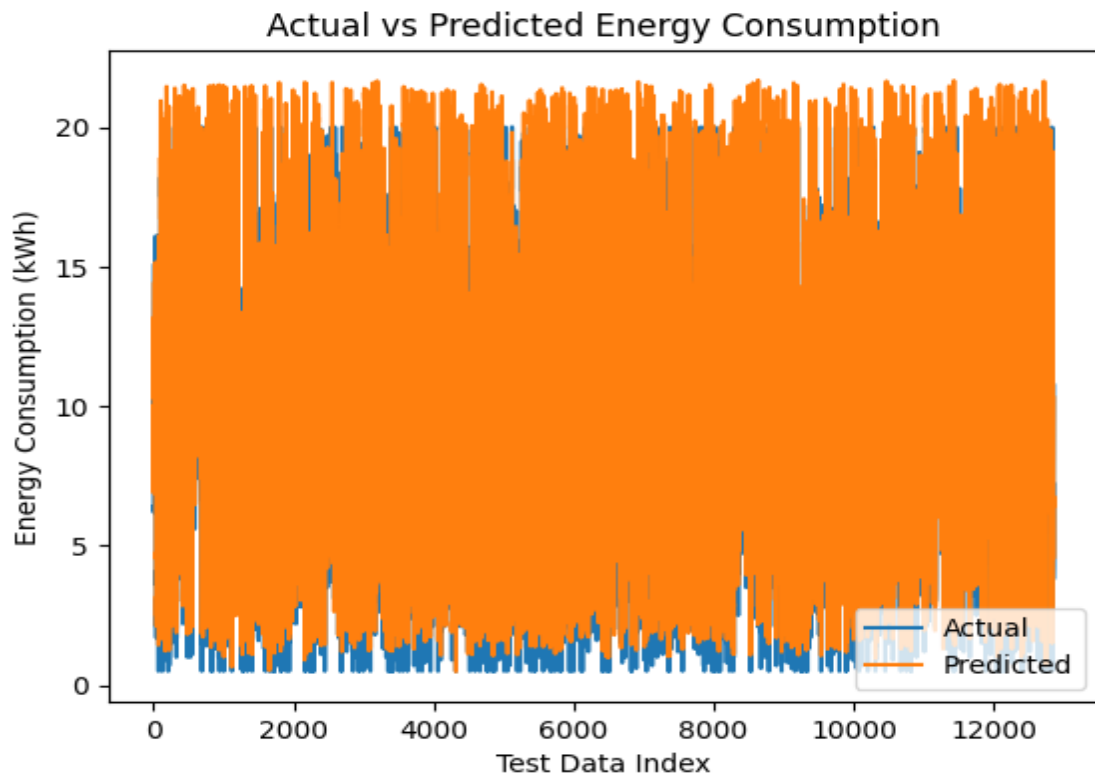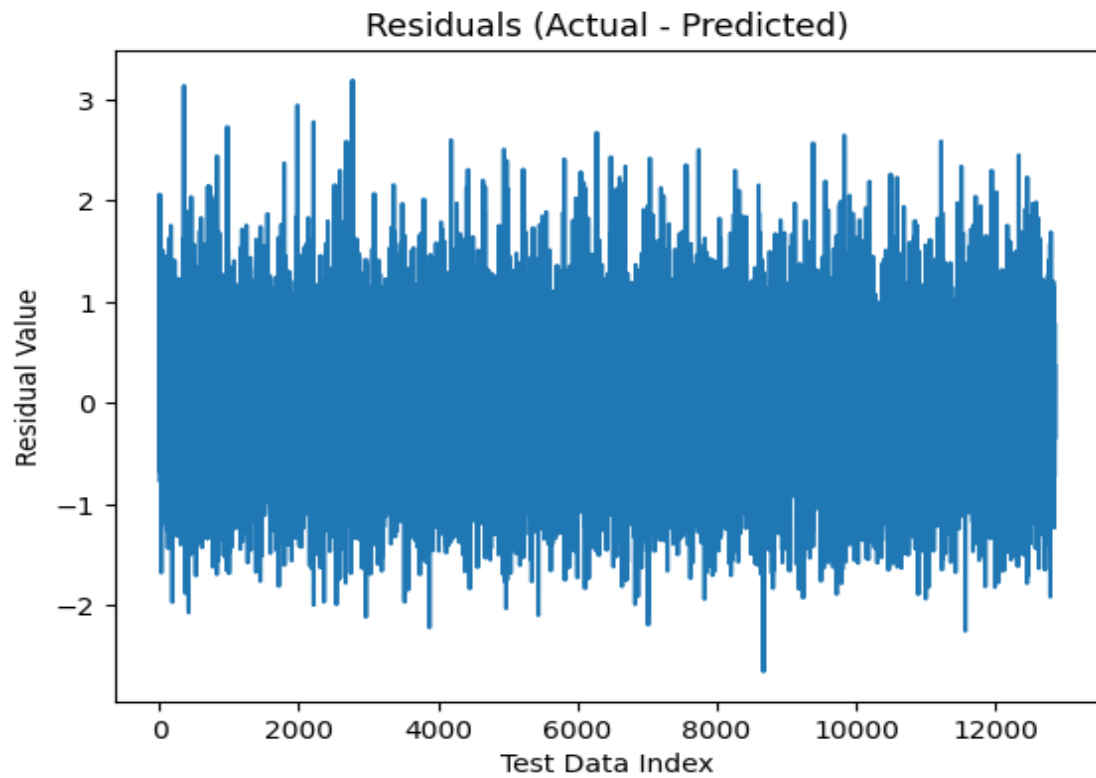# Electricity Consumption Regression – Model Results

Feature Coefficients

This chart shows the contribution of each engineered feature to the regression model. Positive coefficients increase energy consumption predictions, while negative values reduce them.

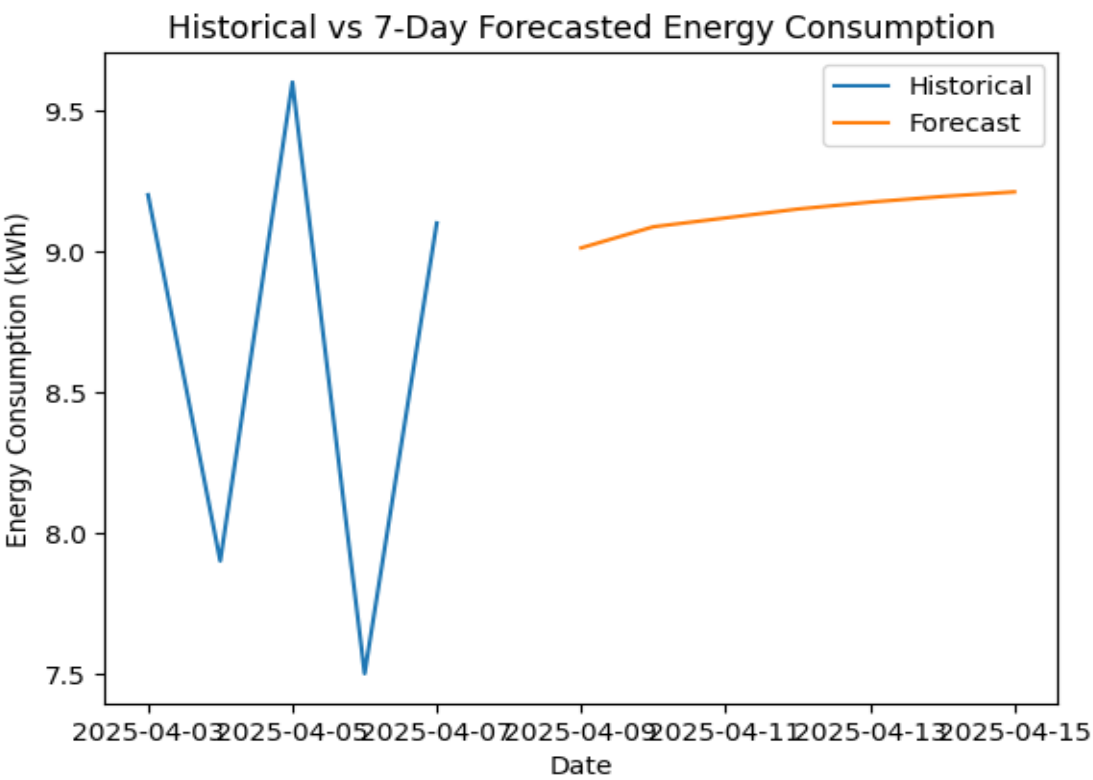Actual vs Predicted Energy Consumption

Historical vs 7-Day Forecast

This plot compares historical electricity consumption with the predicted values for the next 7 days, demonstrating the model's short-term forecasting capability.

Residuals (Actual - Predicted)

Residual Analysis

Residuals represent the difference between actual and predicted values. A random spread around zero indicates a well-fitted regression model.

Actual vs Predicted Consumption

This visualization compares actual energy usage with model predictions on the test dataset. Closer overlap signifies higher prediction accuracy.