LIST OF TABLES

| 3.1 | Summary of the weather variables used in the study, along with their | |
|-----|---|----|
| | respective units. | 17 |
| 3.2 | Weather feature selection using CC, highlighting the most significant features. | 20 |
| 4.1 | Evaluation of electricity load forecasting models using weather feature selection based on the CC method across different locations. The table | |
| | includes metrics such as the CC, RMSE, MAPE, and \mathbb{R}^2 for each location. | 29 |
| 4.2 | Evaluation of electricity load forecasting models using weather feature based | |
| | on the PCA method across multiple locations with different time features. | |
| | The table presents metrics such as CC, RMSE, MAPE, and \mathbb{R}^2 for each | |
| | location | 30 |
| 4.3 | Evaluation of electricity load forecasting models using weather feature | |
| | selection based on the CC and various IMFs. The table presents the CC, | |
| | RMSE, MAPE, and $\mathbf{R^2}$ values for different scenarios, identifying IMF-8 as | |
| | the best-performing mode | 30 |
| 4.4 | Evaluation of electricity load forecasting models using weather feature based | |
| | on the PCA and various IMFs. The table presents the CC, RMSE, MAPE, | |
| | and \mathbb{R}^2 values for different scenarios, identifying IMF-9 as the best-performing | |
| | mode | 31 |