**Table S12.** Evaluation of prediction results of IPSO-LSTM and LSTM models, comparing PSM and ridge regression.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Prediction Models** | **Stocks** | **MAPE** | **RMSE** | **MAE** | **R2** |
| IPSO-LSTM | Renfu\_independent | 0.0054  | 0.1363  | 0.1182  | 0.9897 |
| Renfu-Hengrui | 0.0046 | 0.1241 | 0.0984 | 0.9915 |
| Renfu-Chengdu | 0.0036  | 0.1020  | 0.0757  | 0.9942 |
| LSTM | Renfu\_independent | 0.0218 | 0.5842 | 0.4772 | 0.8112 |
| Renfu-Hengrui | 0.0194 | 0.5334 | 0.4261 | 0.8426 |
| Renfu-Chengdu | 0.0167 | 0.4629 | 0.3644 | 0.8814 |

Note: Root Mean Square Error, RMSE; Mean Absolute Error, MAE; Mean Absolute Percentage Error, MAPE; coefficient of determination, R2.