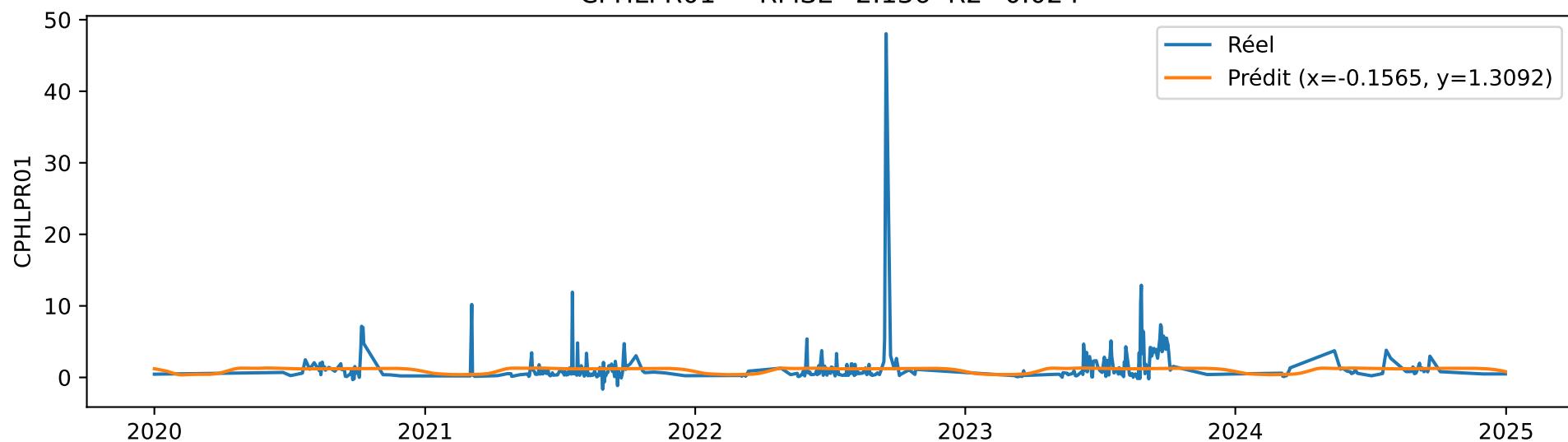
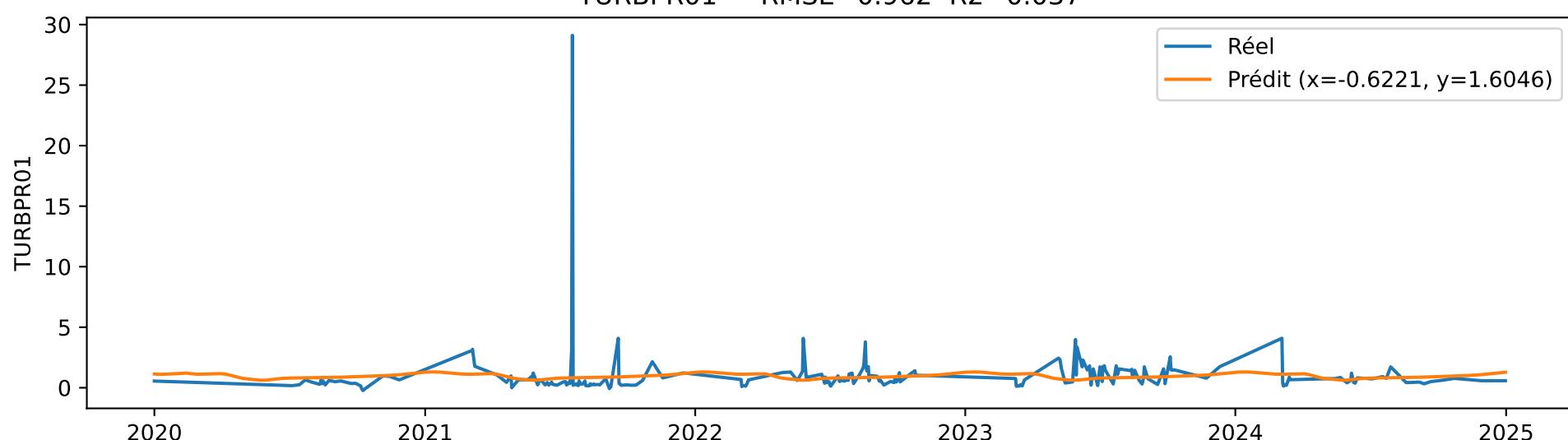


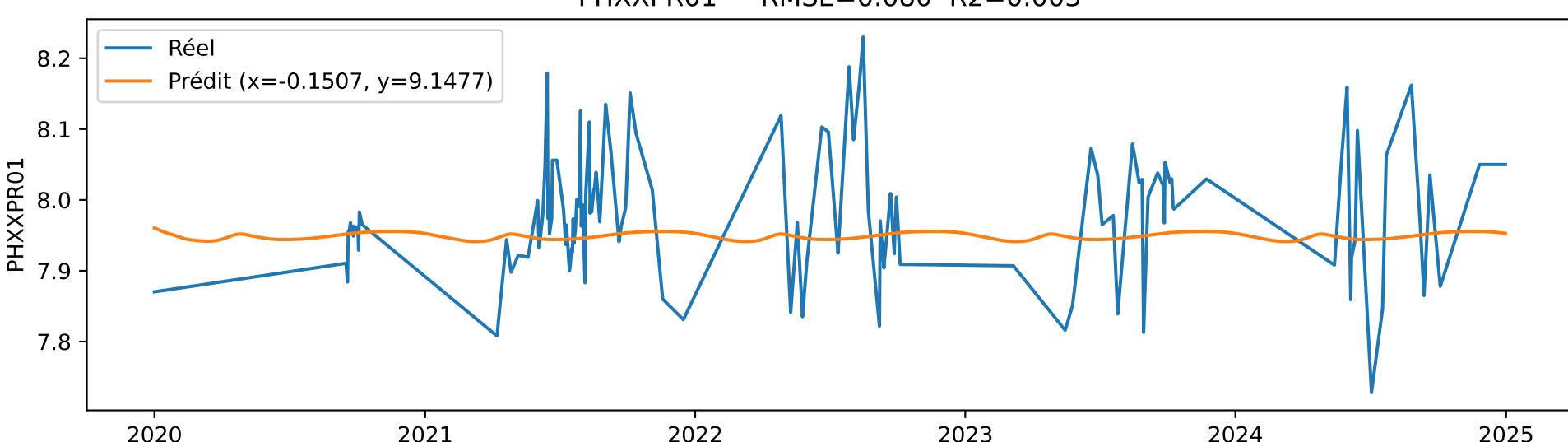
CPHLPR01 — RMSE=2.136 R2=0.024



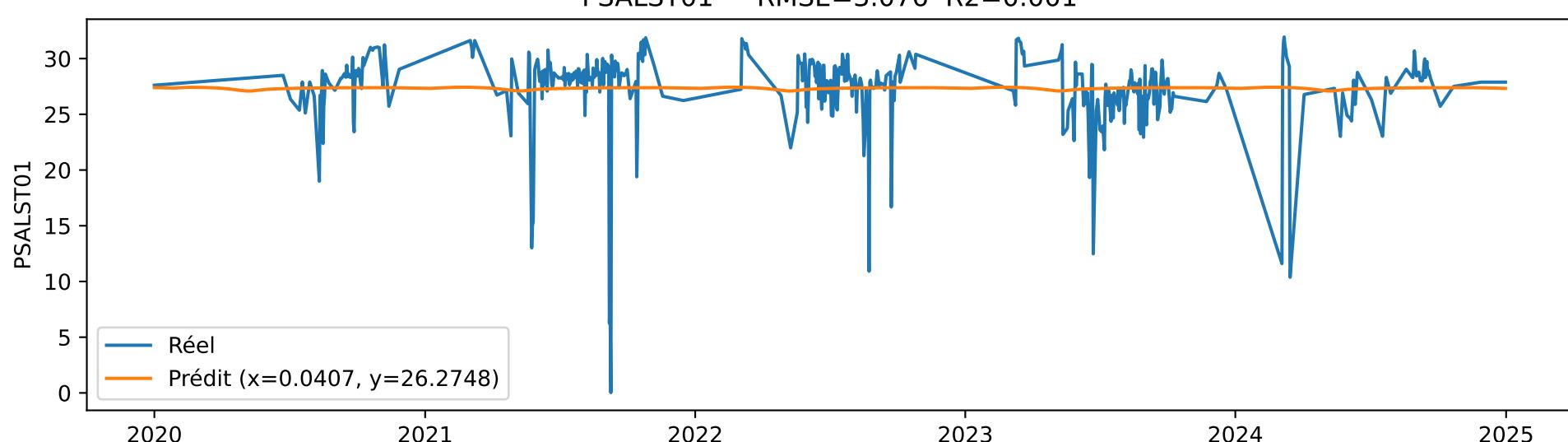
TURBPR01 — RMSE=0.962 R2=0.037



PHXXPR01 — RMSE=0.080 R2=0.003



PSALST01 — RMSE=3.076 R2=0.001



Résultats LSTM multivarié (après OLS)

Période entraînement : 2000-03-01 -> 2019-12-31

Période test : 2020-01-01 -> 2024-12-31

Metrics par variable (après transformation optimale) :

- CPHLPR01: RMSE=2.1356, R2=0.0236 ($x=-0.156543$, $y=1.309238$, $R2_{opt}=0.023632$)
- TURBPR01: RMSE=0.9623, R2=0.0372 ($x=-0.622106$, $y=1.604638$, $R2_{opt}=0.037156$)
- PHXXPR01: RMSE=0.0797, R2=0.0033 ($x=-0.150746$, $y=9.147666$, $R2_{opt}=0.003347$)
- PSALST01: RMSE=3.0760, R2=0.0007 ($x=0.040726$, $y=26.274760$, $R2_{opt}=0.000707$)