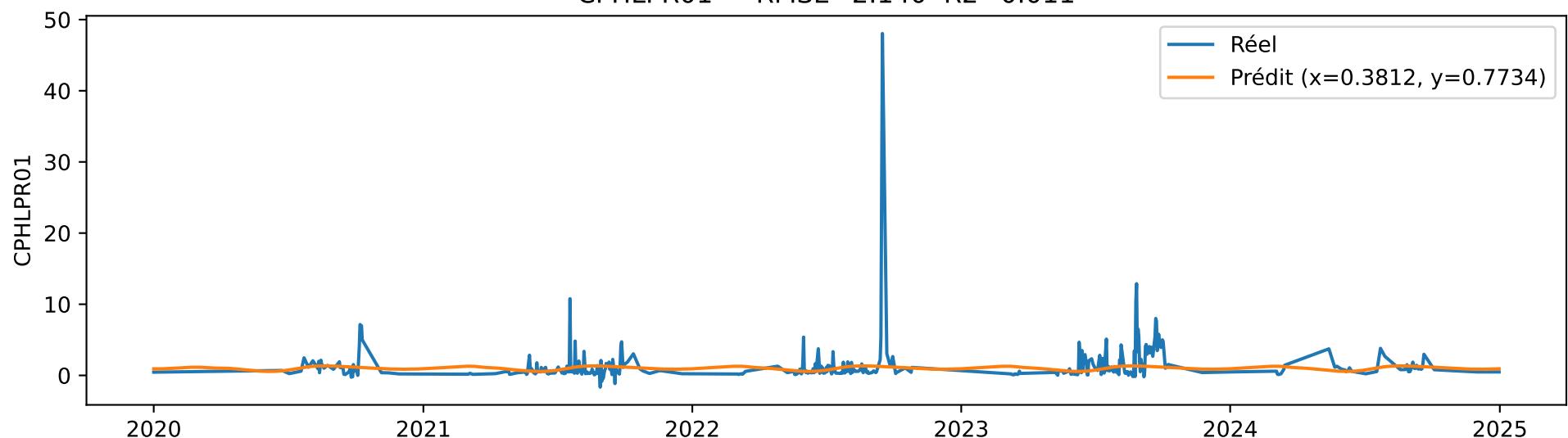
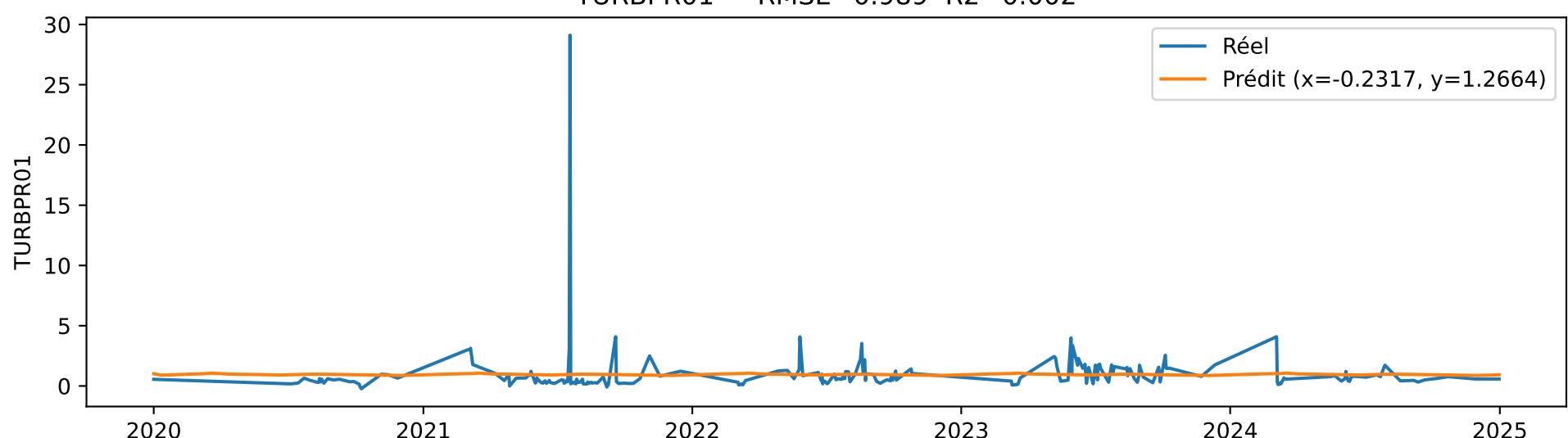


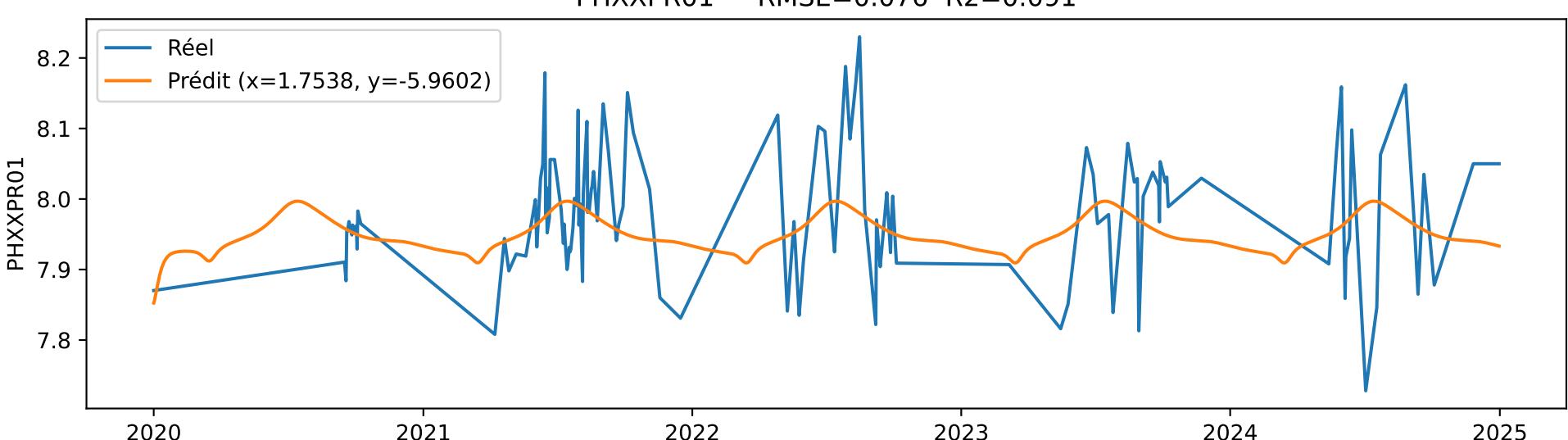
CPHLPR01 — RMSE=2.140 R2=0.011



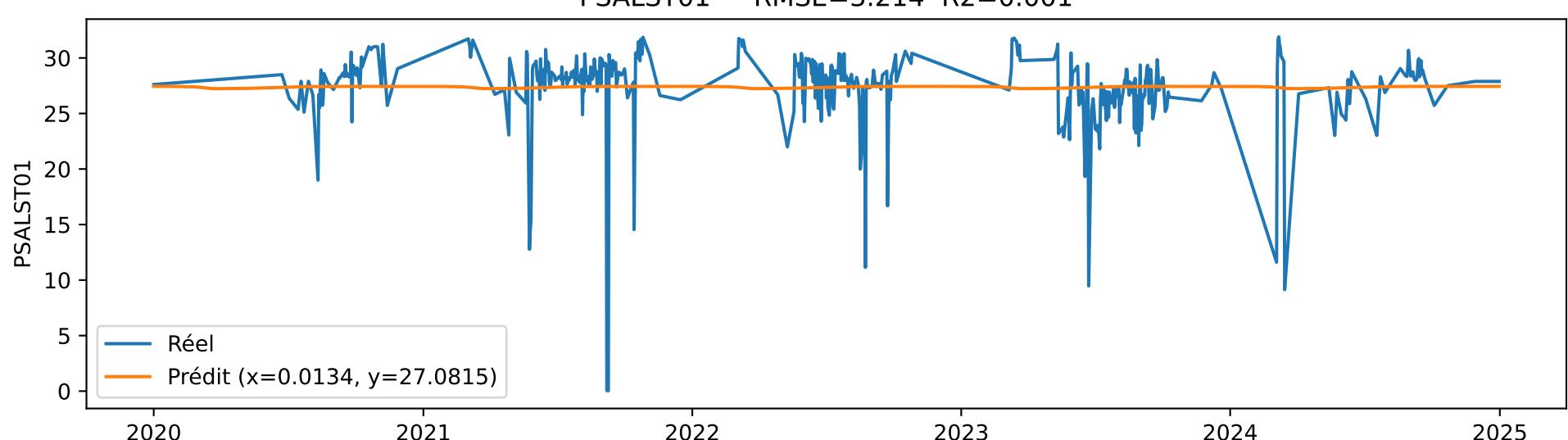
TURBPR01 — RMSE=0.989 R2=0.002



PHXXPR01 — RMSE=0.076 R2=0.091



PSALST01 — RMSE=3.214 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=2.1402, R2=0.0105 ($x=0.381194$, $y=0.773394$, $R2_{opt}=0.010527$)
- TURBPR01: RMSE=0.9894, R2=0.0023 ($x=-0.231676$, $y=1.266409$, $R2_{opt}=0.002306$)
- PHXXPR01: RMSE=0.0762, R2=0.0909 ($x=1.753810$, $y=-5.960196$, $R2_{opt}=0.090857$)
- PSALST01: RMSE=3.2144, R2=0.0005 ($x=0.013389$, $y=27.081533$, $R2_{opt}=0.000528$)