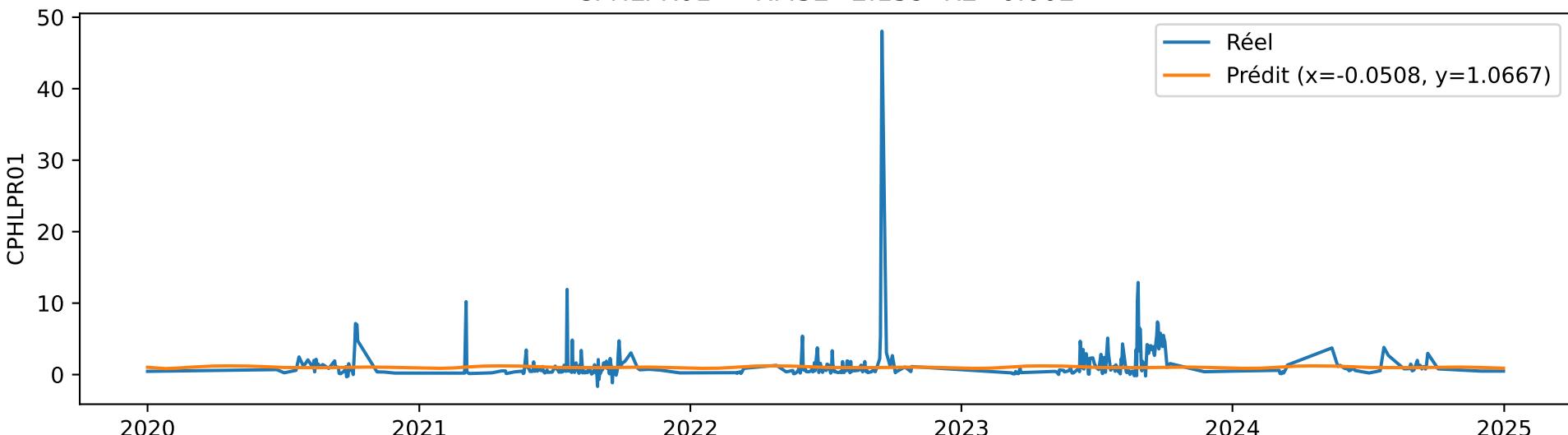
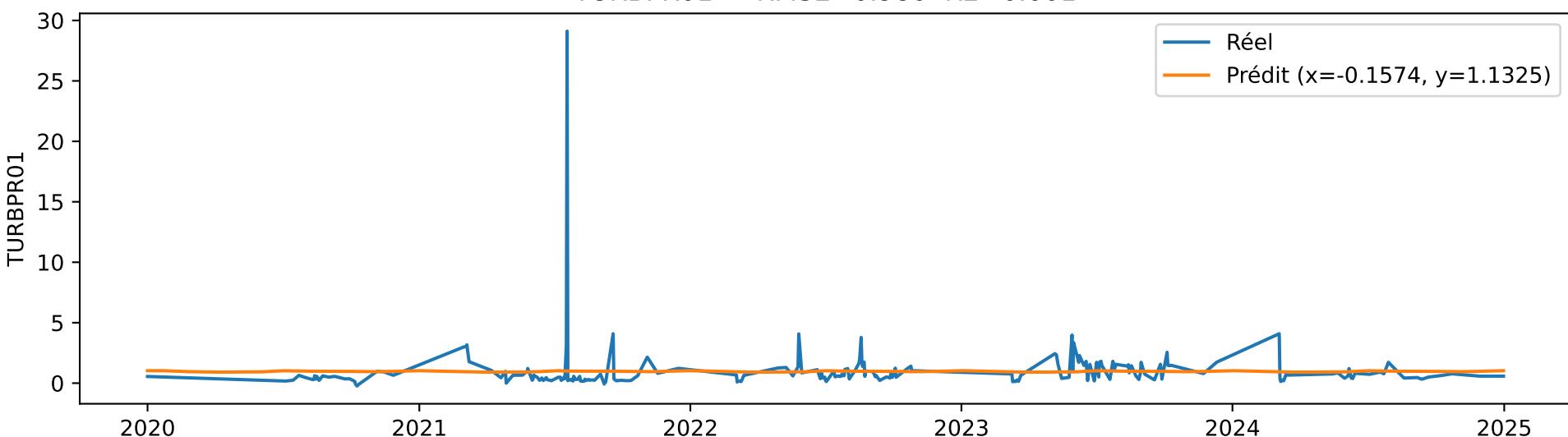


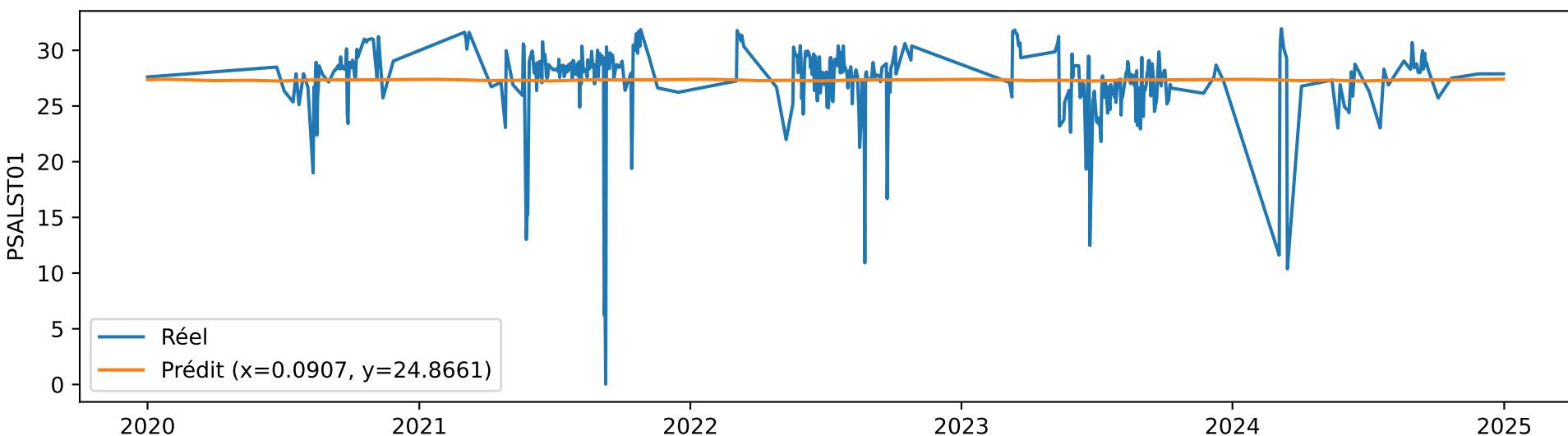
CPHLPR01 — RMSE=2.159 R2=0.002



TURBPR01 — RMSE=0.980 R2=0.001



PSALST01 — RMSE=3.077 R2=0.000



## 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=2.1589, R2=0.0022 ( $x=-0.050847$ ,  $y=1.066719$ ,  $R2_{opt}=0.002164$ )
- TURBPR01: RMSE=0.9799, R2=0.0015 ( $x=-0.157366$ ,  $y=1.132546$ ,  $R2_{opt}=0.001485$ )
- PSALST01: RMSE=3.0767, R2=0.0002 ( $x=0.090674$ ,  $y=24.866108$ ,  $R2_{opt}=0.000223$ )