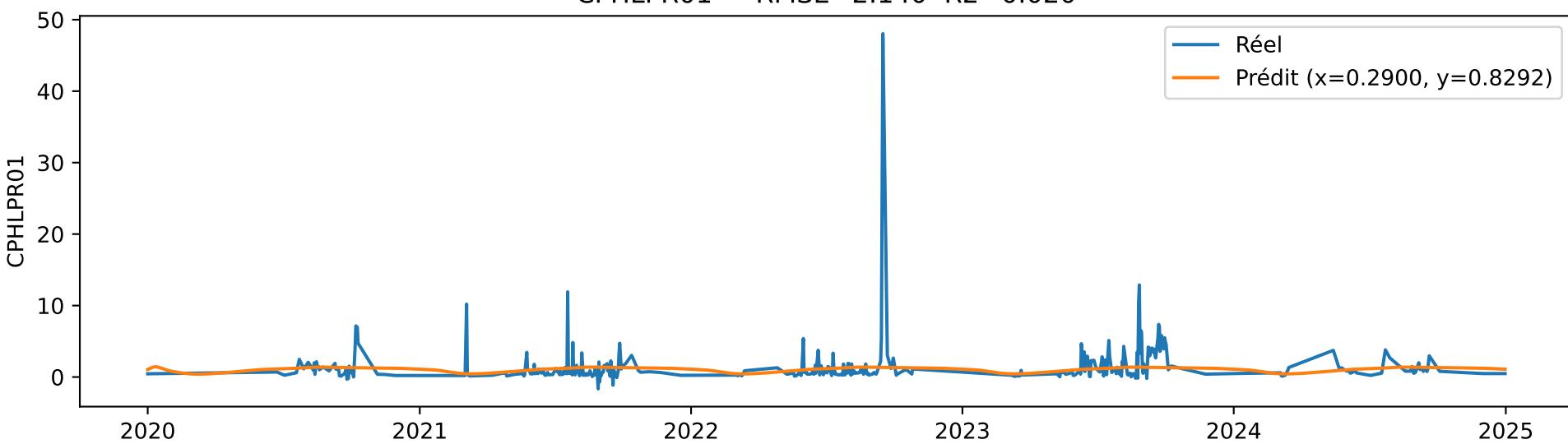
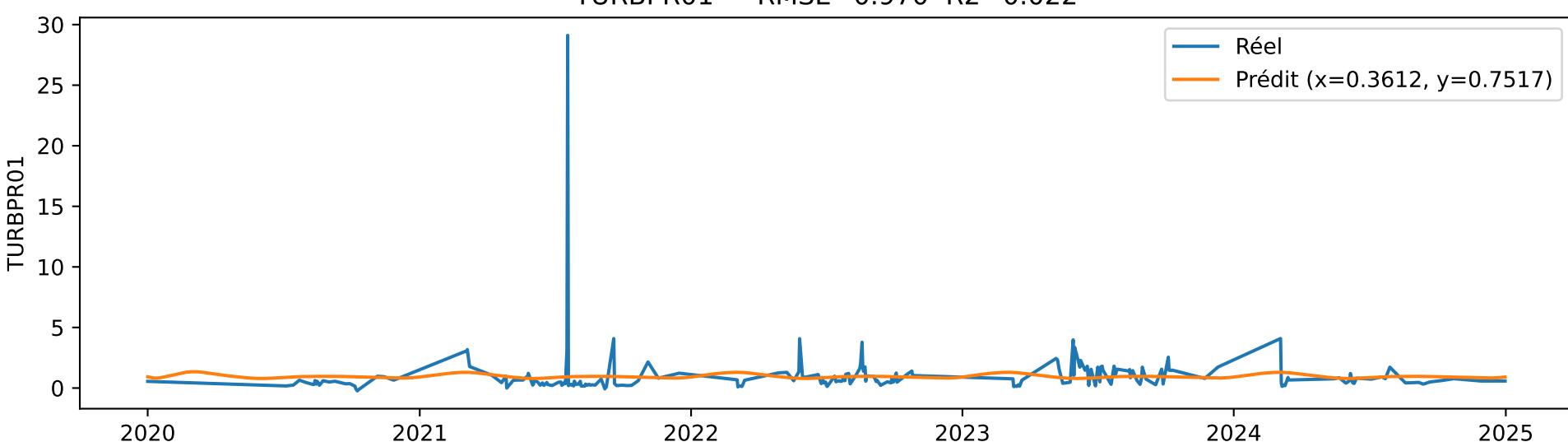


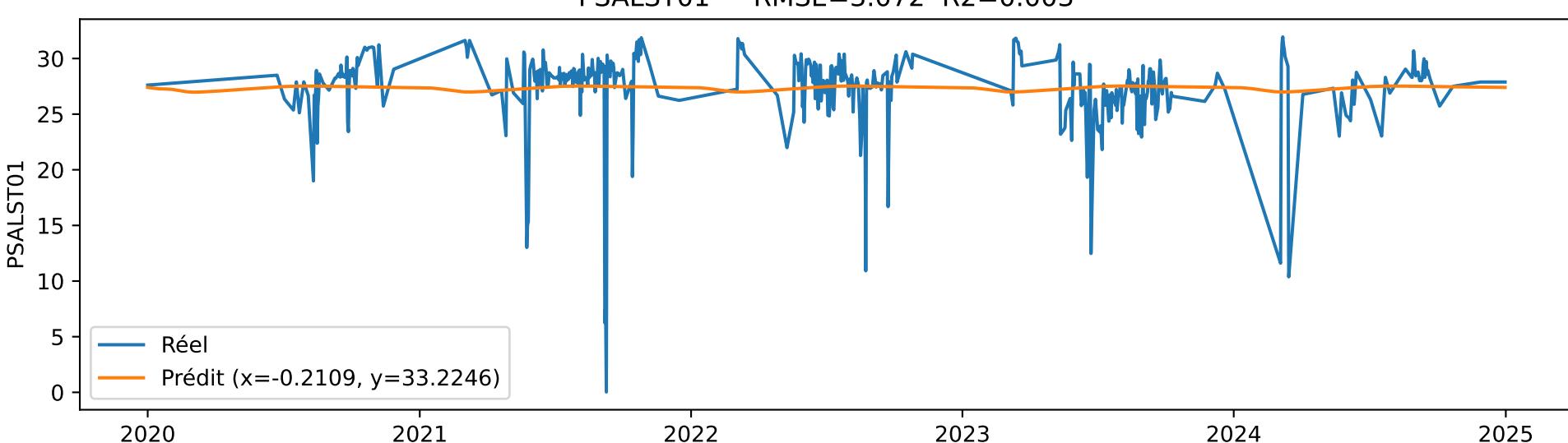
CPHLPR01 — RMSE=2.140 R2=0.020



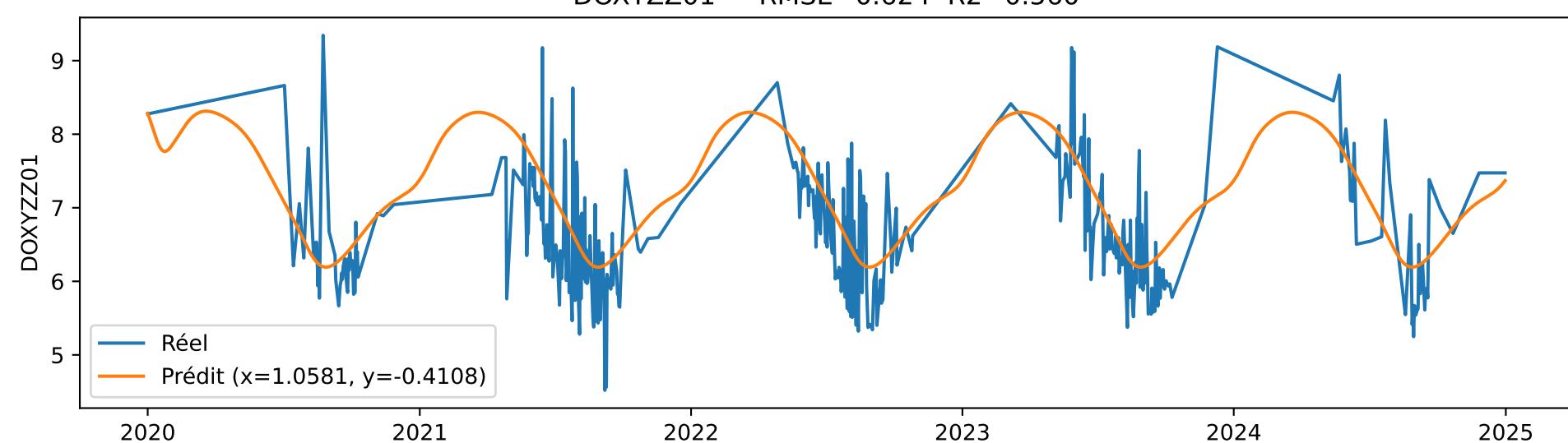
TURBPR01 — RMSE=0.970 R2=0.022



PSALST01 — RMSE=3.072 R2=0.003



DOXYZZ01 — RMSE=0.624 R2=0.560



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=2.1395, R2=0.0200 ($x=0.290044$, $y=0.829196$, $R2_{opt}=0.020015$)
- TURBPR01: RMSE=0.9697, R2=0.0223 ($x=0.361179$, $y=0.751674$, $R2_{opt}=0.022300$)
- PSALST01: RMSE=3.0724, R2=0.0030 ($x=-0.210907$, $y=33.224571$, $R2_{opt}=0.003031$)
- DOXYZZ01: RMSE=0.6236, R2=0.5598 ($x=1.058132$, $y=-0.410831$, $R2_{opt}=0.559824$)