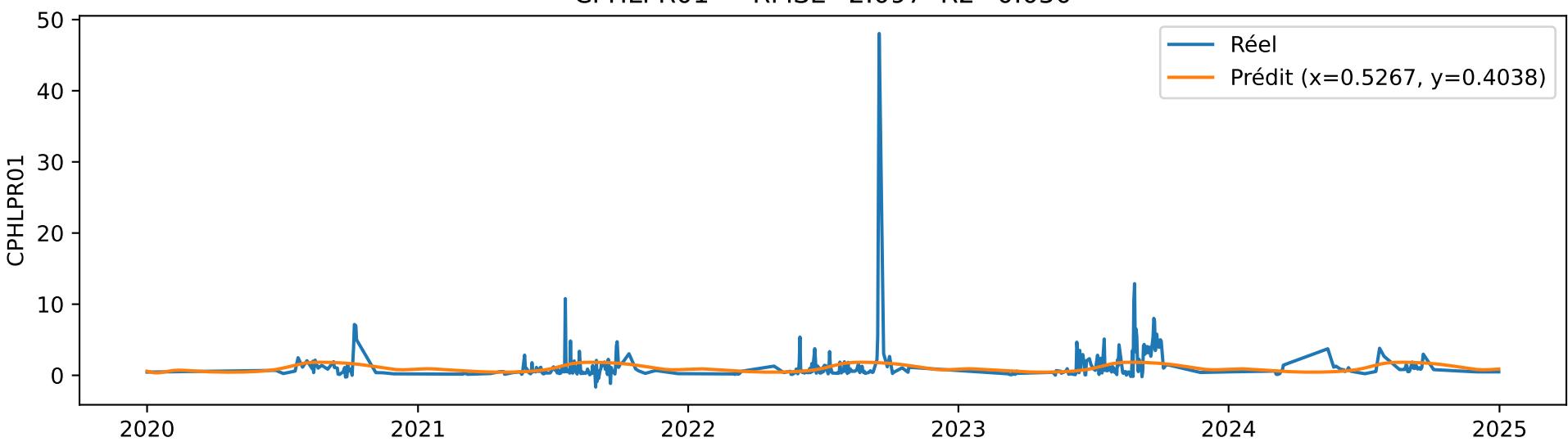
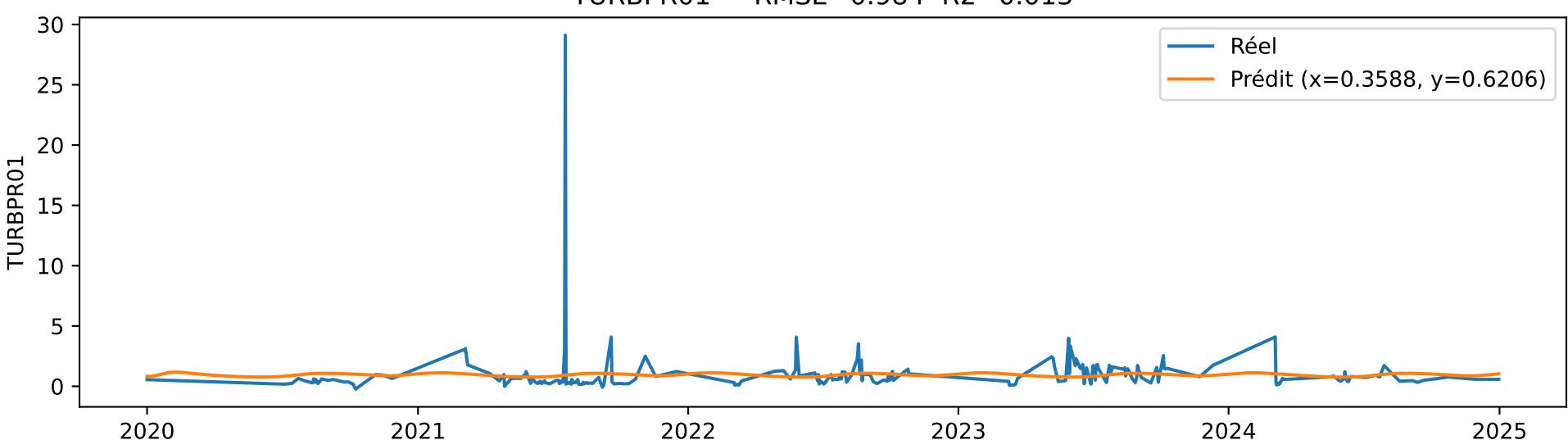


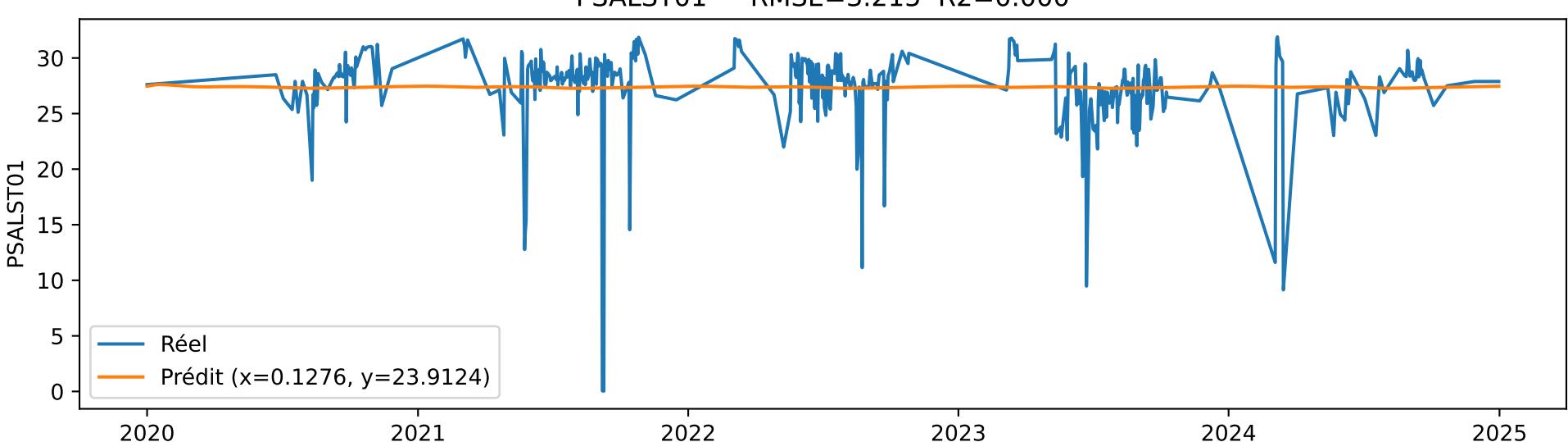
CPHLPR01 — RMSE=2.097 R2=0.050



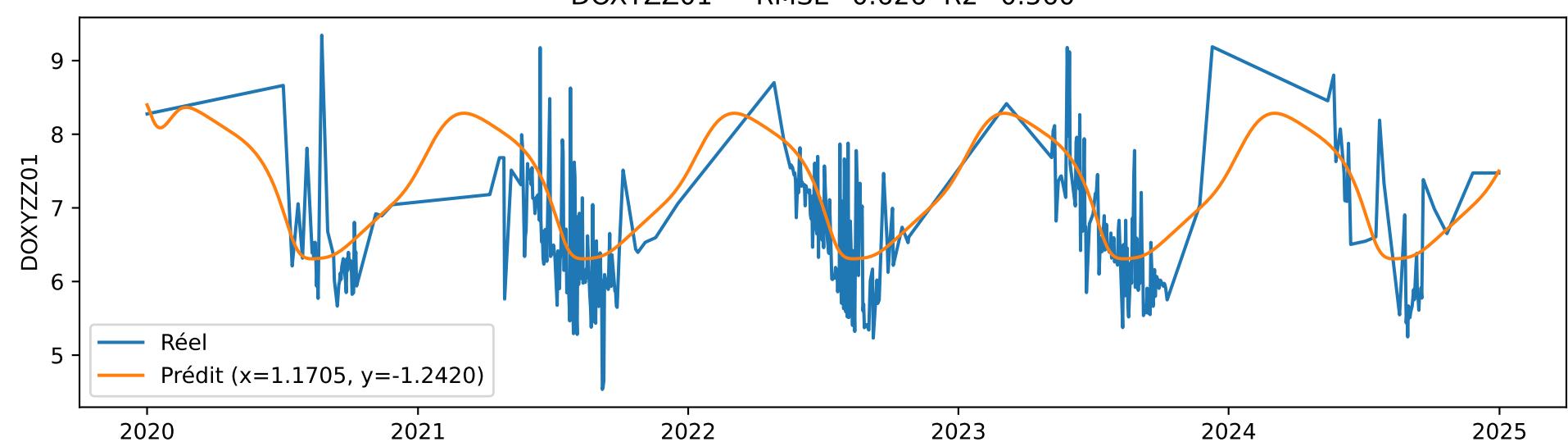
TURBPR01 — RMSE=0.984 R2=0.013



PSALST01 — RMSE=3.215 R2=0.000



DOXYZZ01 — RMSE=0.626 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=2.0973, R2=0.0498 ( $x=0.526668$ ,  $y=0.403763$ ,  $R2_{opt}=0.049792$ )
- TURBPR01: RMSE=0.9840, R2=0.0130 ( $x=0.358764$ ,  $y=0.620619$ ,  $R2_{opt}=0.013031$ )
- PSALST01: RMSE=3.2146, R2=0.0004 ( $x=0.127633$ ,  $y=23.912375$ ,  $R2_{opt}=0.000394$ )
- DOXYZZ01: RMSE=0.6261, R2=0.5603 ( $x=1.170535$ ,  $y=-1.241992$ ,  $R2_{opt}=0.560284$ )