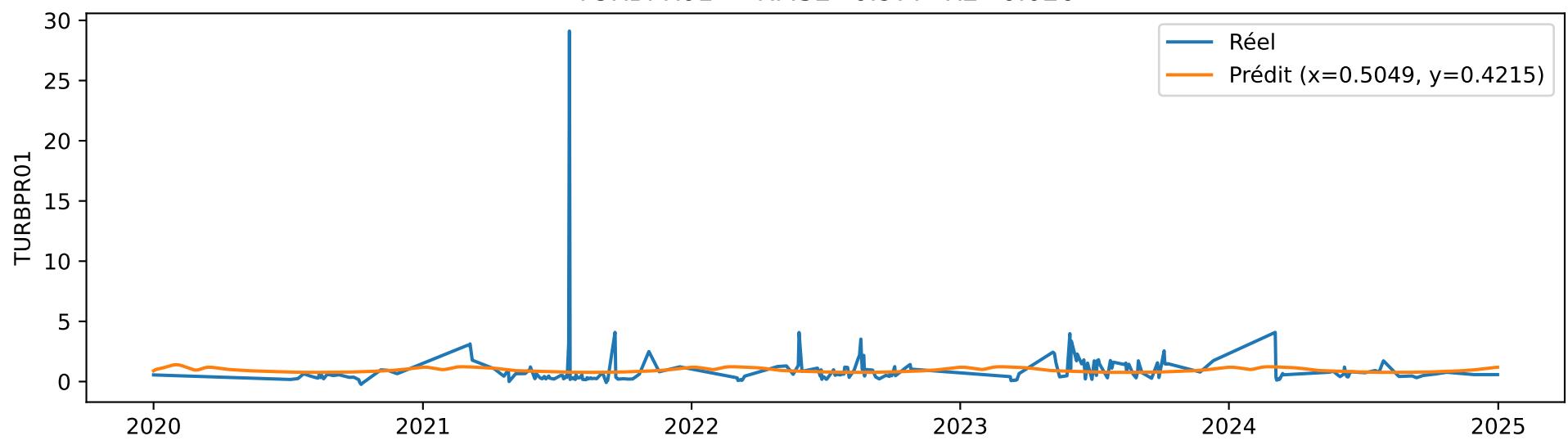
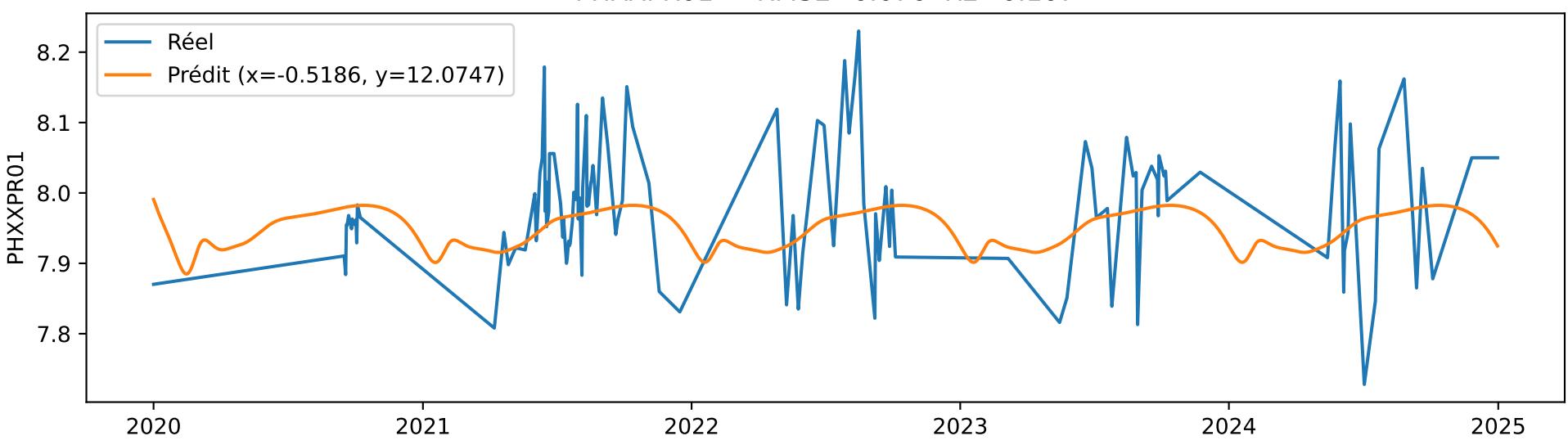


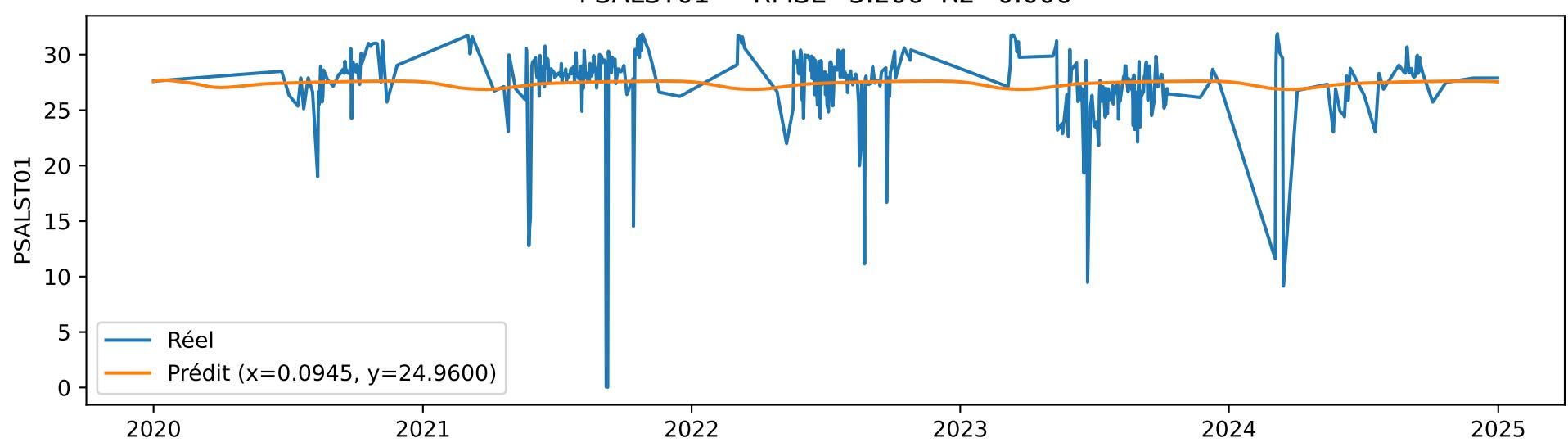
TURBPR01 — RMSE=0.977 R2=0.026



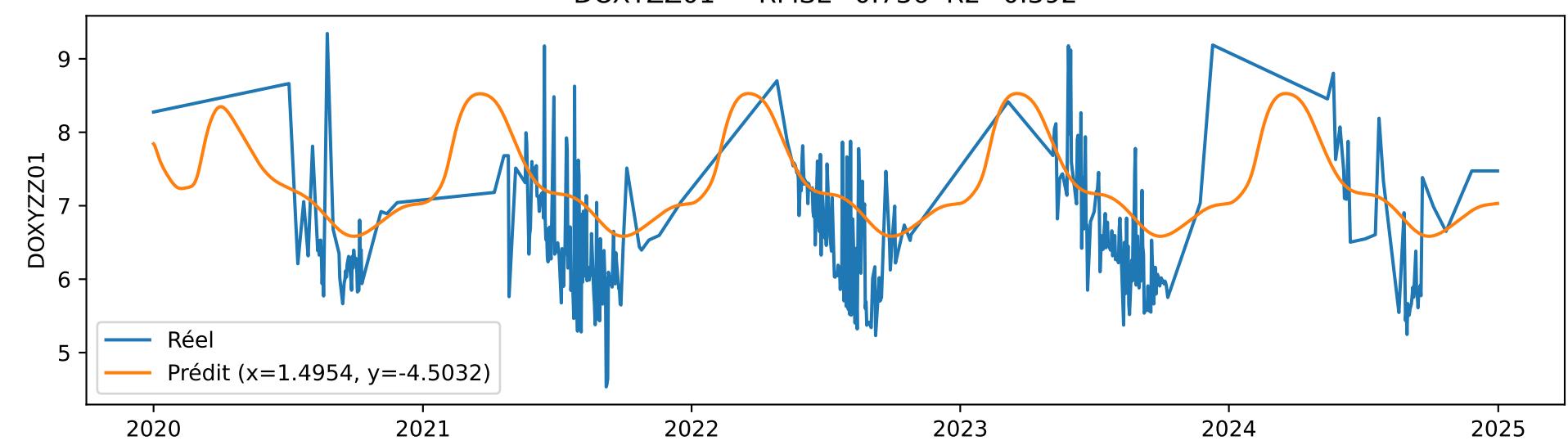
PHXXPR01 — RMSE=0.076 R2=0.107



PSALST01 — RMSE=3.206 R2=0.006



DOXYZZ01 — RMSE=0.736 R2=0.392



## 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) :

- TURBPR01: RMSE=0.9775, R2=0.0262 ( $x=0.504903$ ,  $y=0.421526$ ,  $R2_{opt}=0.026159$ )
- PHXXPR01: RMSE=0.0756, R2=0.1065 ( $x=-0.518602$ ,  $y=12.074728$ ,  $R2_{opt}=0.106503$ )
- PSALST01: RMSE=3.2057, R2=0.0059 ( $x=0.094547$ ,  $y=24.959956$ ,  $R2_{opt}=0.005886$ )
- DOXYZZ01: RMSE=0.7365, R2=0.3916 ( $x=1.495359$ ,  $y=-4.503227$ ,  $R2_{opt}=0.391606$ )