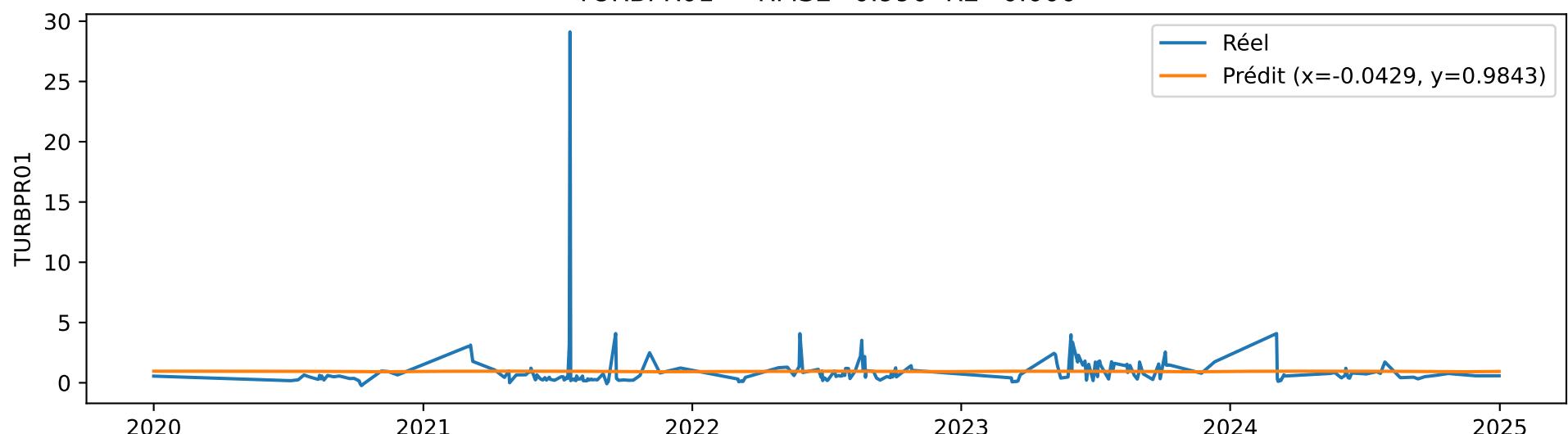
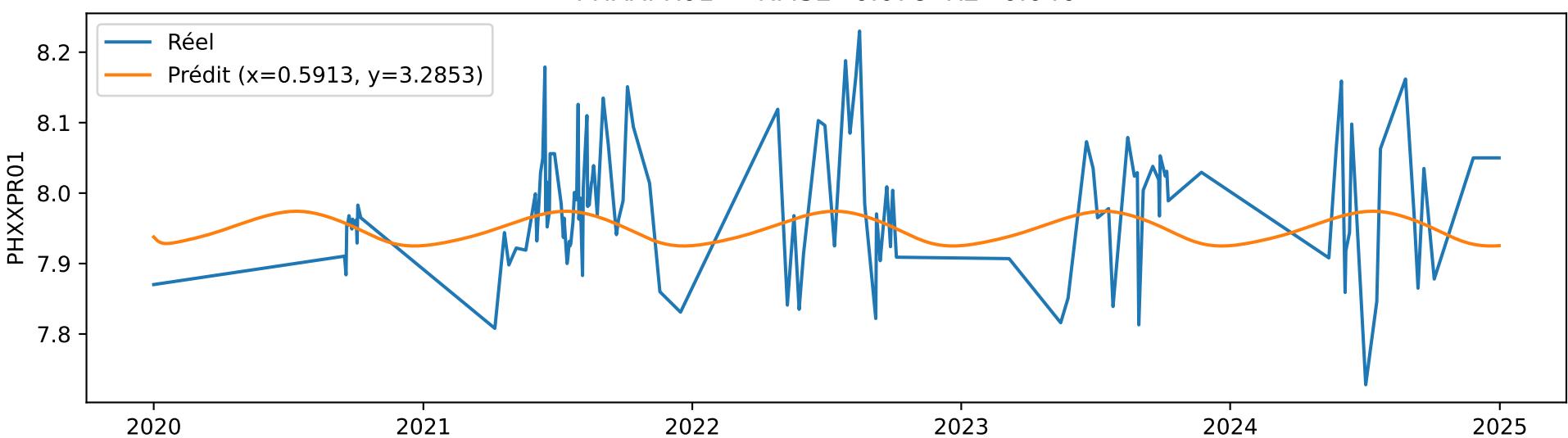


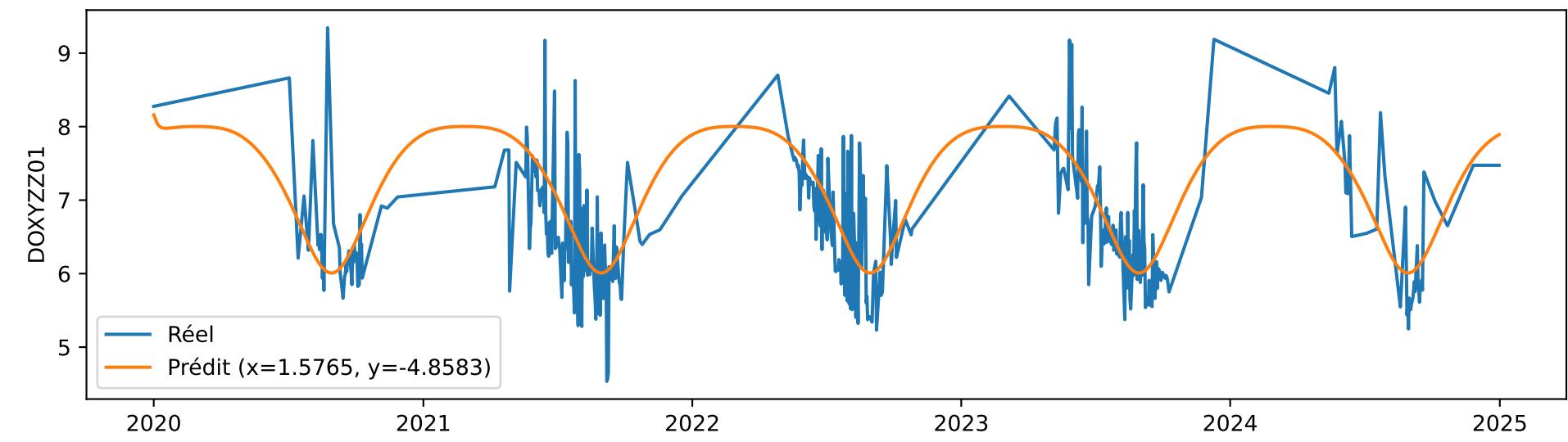
TURBPR01 — RMSE=0.990 R2=0.000



PHXXPR01 — RMSE=0.078 R2=0.046



DOXYZZ01 — RMSE=0.646 R2=0.532



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=0.9903, R2=0.0003 ($x=-0.042906$, $y=0.984311$, $R^2_{opt}=0.000340$)
- PHXXPR01: RMSE=0.0781, R2=0.0459 ($x=0.591324$, $y=3.285266$, $R^2_{opt}=0.045920$)
- DOXYZZ01: RMSE=0.6461, R2=0.5318 ($x=1.576460$, $y=-4.858315$, $R^2_{opt}=0.531753$)