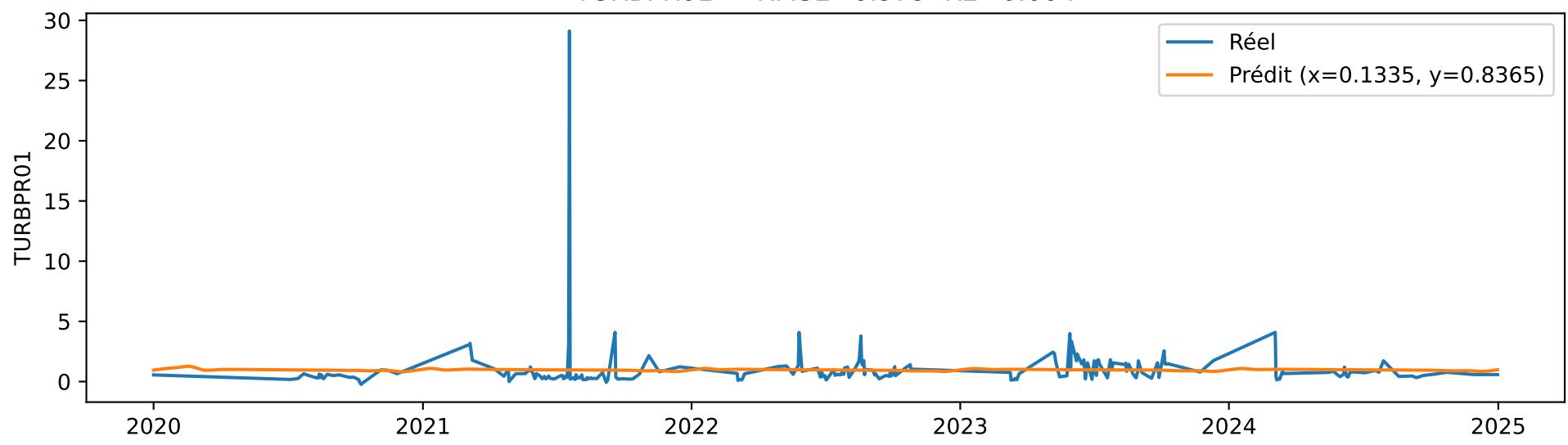
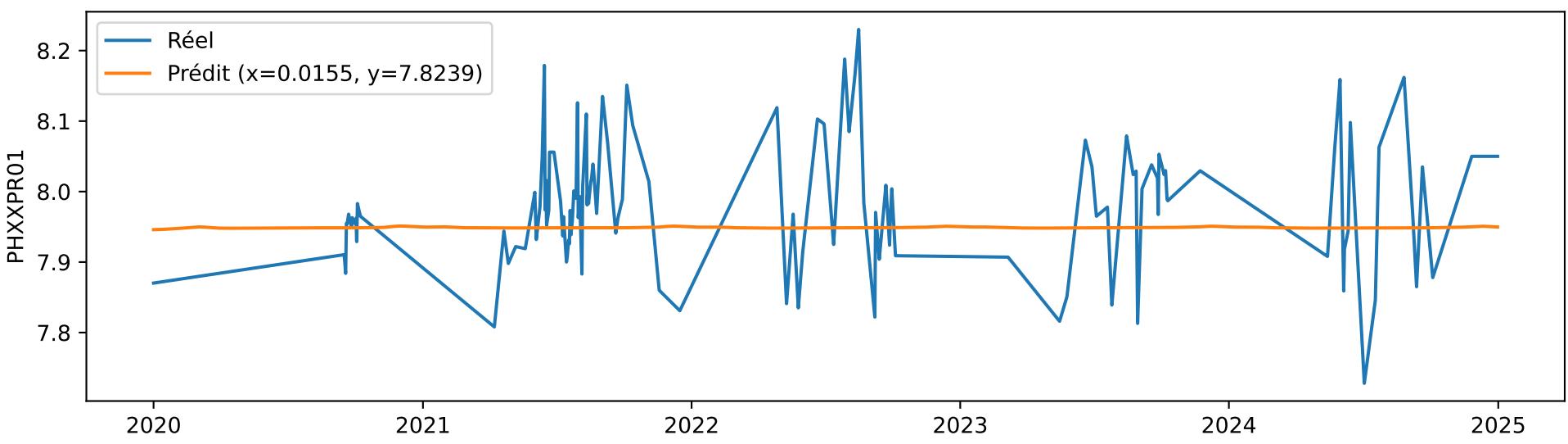


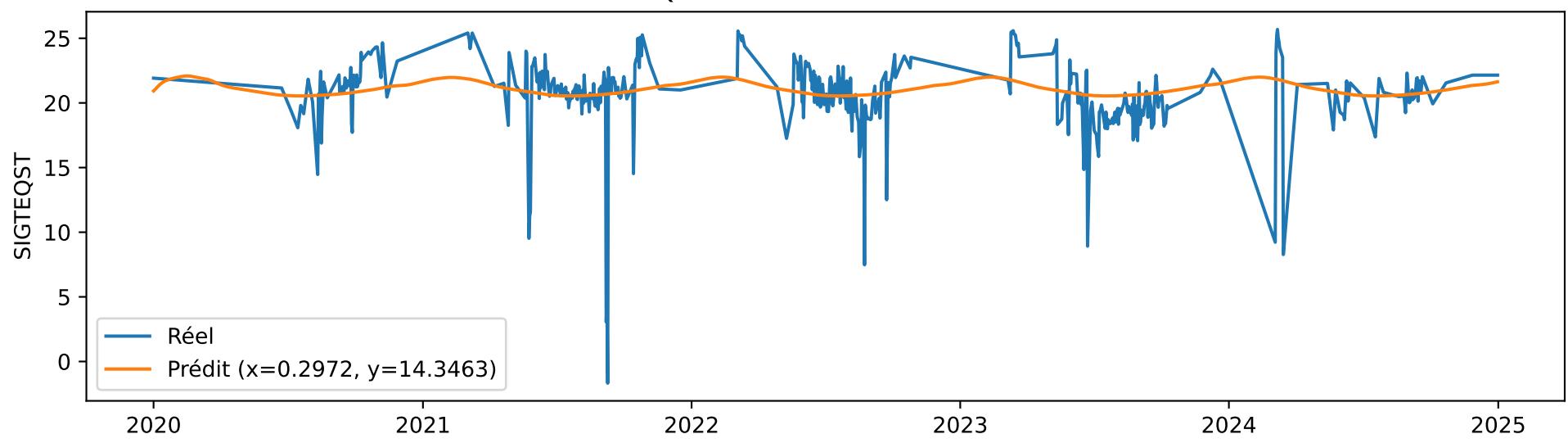
TURBPR01 — RMSE=0.979 R2=0.004



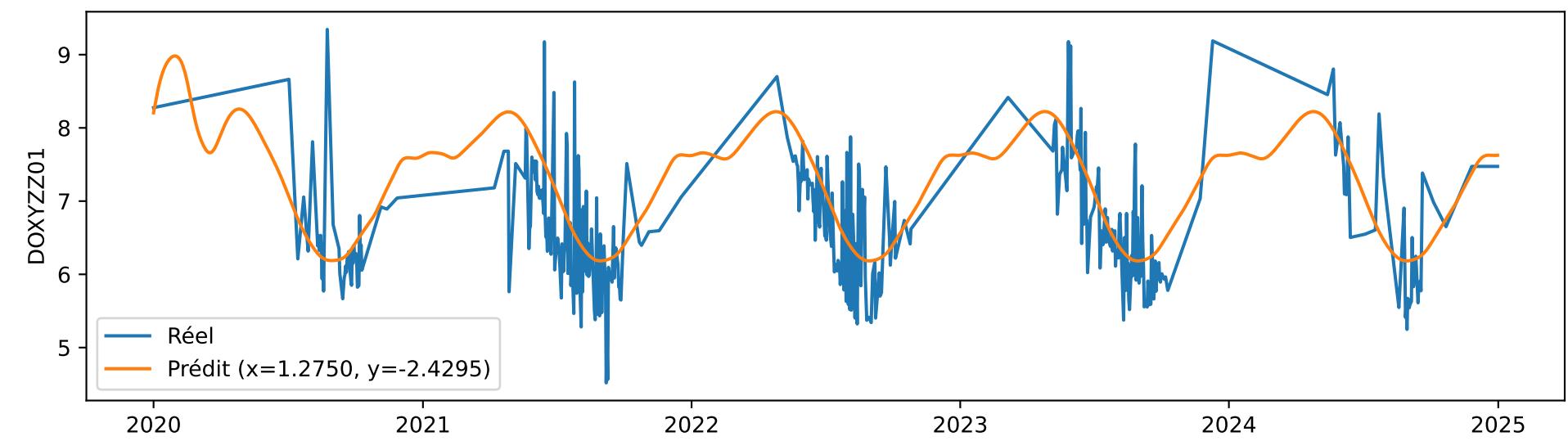
PHXXPR01 — RMSE=0.080 R2=0.000



SIGTEQST — RMSE=2.498 R2=0.036



DOXYZZ01 — RMSE=0.635 R2=0.543



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=0.9787, R2=0.0040 ($x=0.133510$, $y=0.836518$, $R2_{opt}=0.003967$)
- PHXXPR01: RMSE=0.0799, R2=0.0001 ($x=0.015508$, $y=7.823947$, $R2_{opt}=0.000096$)
- SIGTEQST: RMSE=2.4982, R2=0.0356 ($x=0.297208$, $y=14.346253$, $R2_{opt}=0.035629$)
- DOXYZZ01: RMSE=0.6351, R2=0.5434 ($x=1.275040$, $y=-2.429473$, $R2_{opt}=0.543413$)