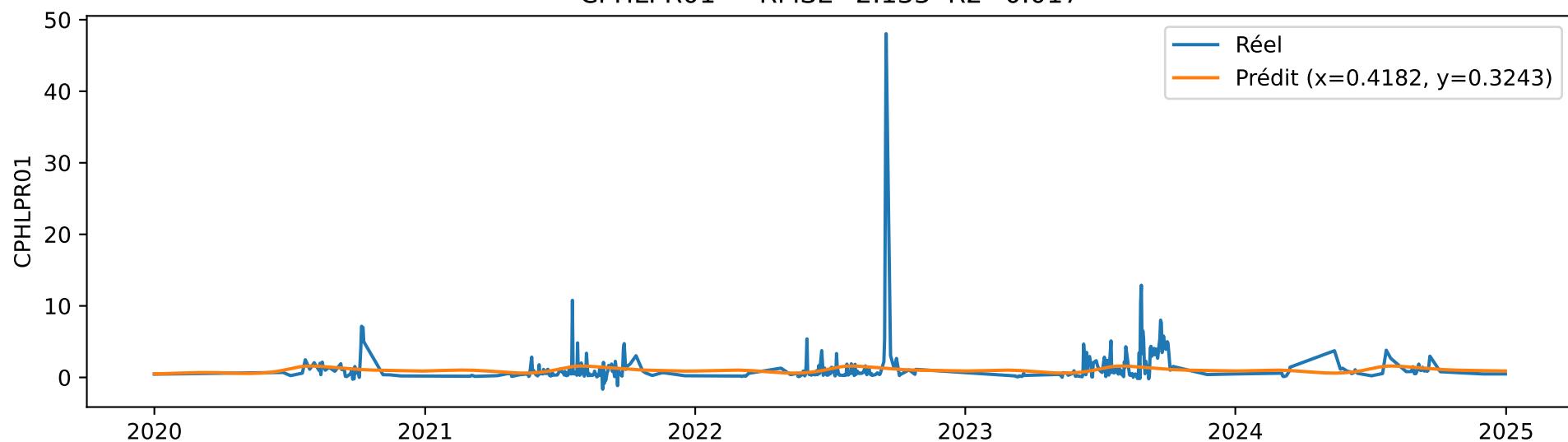
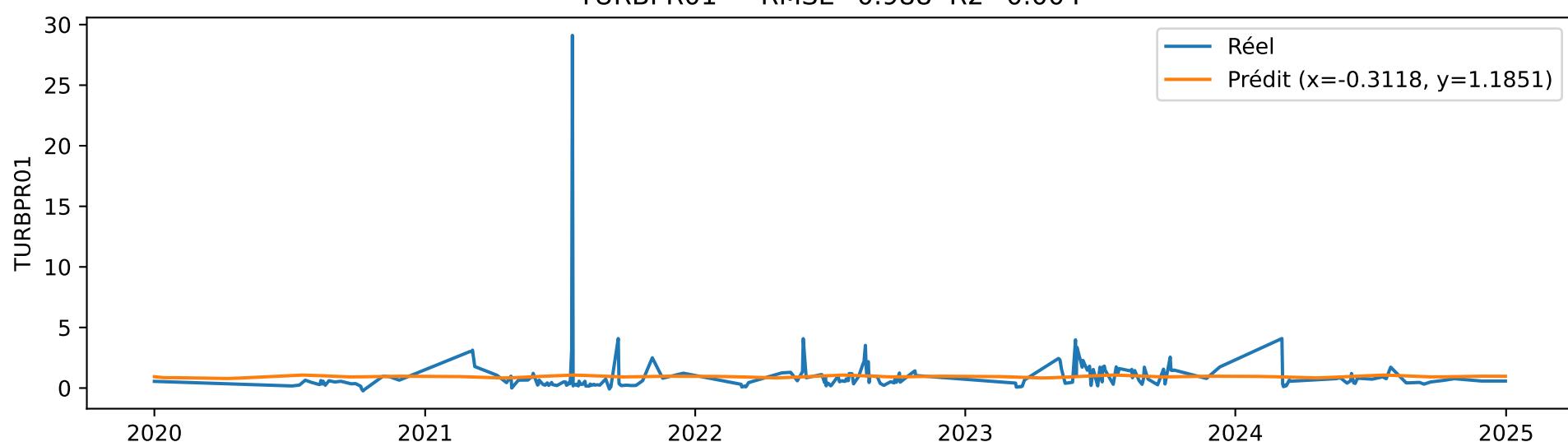


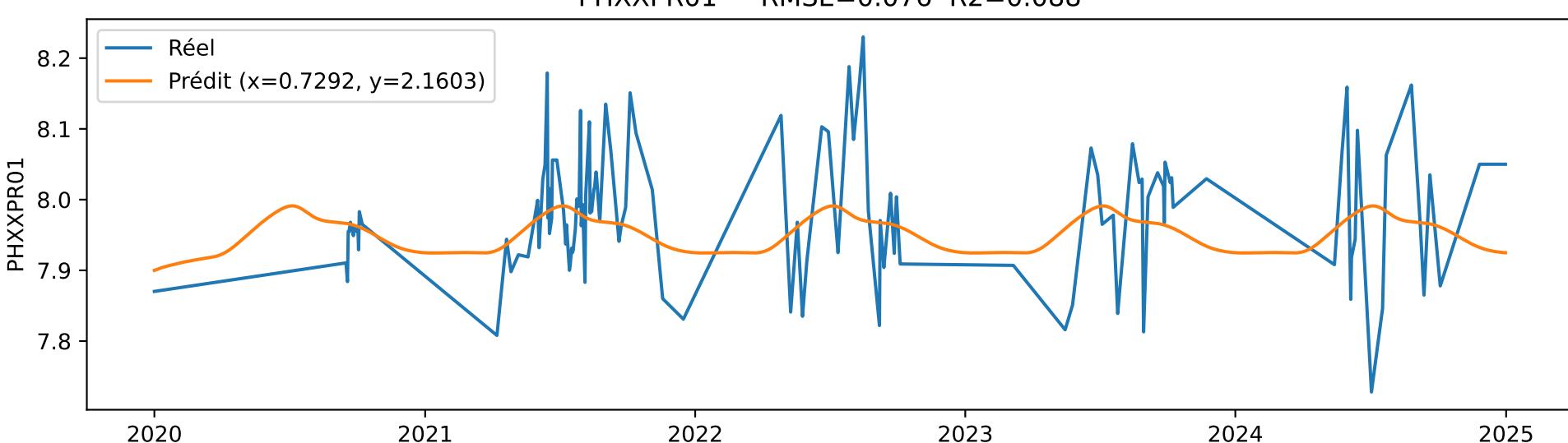
CPHLPR01 — RMSE=2.133 R2=0.017



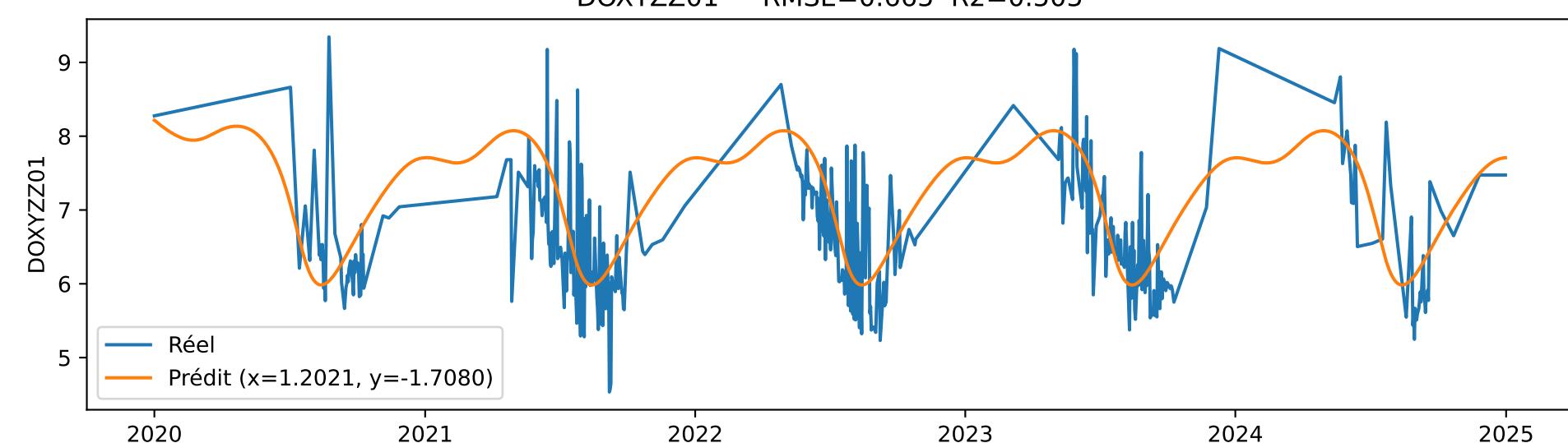
TURBPR01 — RMSE=0.988 R2=0.004



PHXXPR01 — RMSE=0.076 R2=0.088



DOXYZZ01 — RMSE=0.665 R2=0.505



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=2.1329, R2=0.0173 ($x=0.418218$, $y=0.324349$, $R^2_{opt}=0.017321$)
- TURBPR01: RMSE=0.9884, R2=0.0042 ($x=-0.311803$, $y=1.185108$, $R^2_{opt}=0.004248$)
- PHXXPR01: RMSE=0.0763, R2=0.0885 ($x=0.729207$, $y=2.160287$, $R^2_{opt}=0.088499$)
- DOXYZZ01: RMSE=0.6646, R2=0.5046 ($x=1.202075$, $y=-1.707957$, $R^2_{opt}=0.504557$)