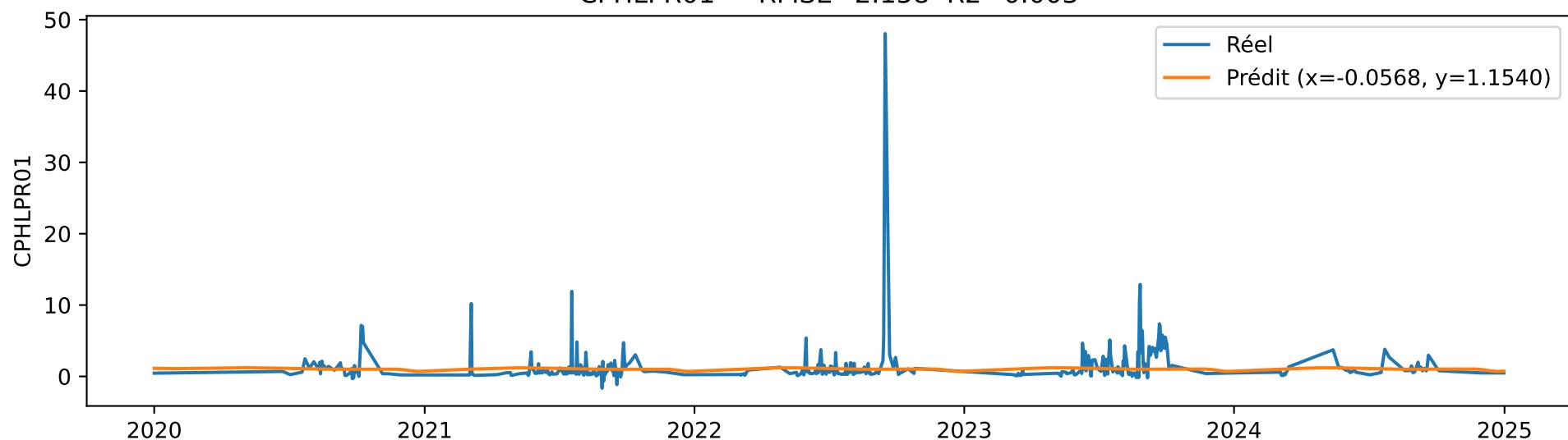
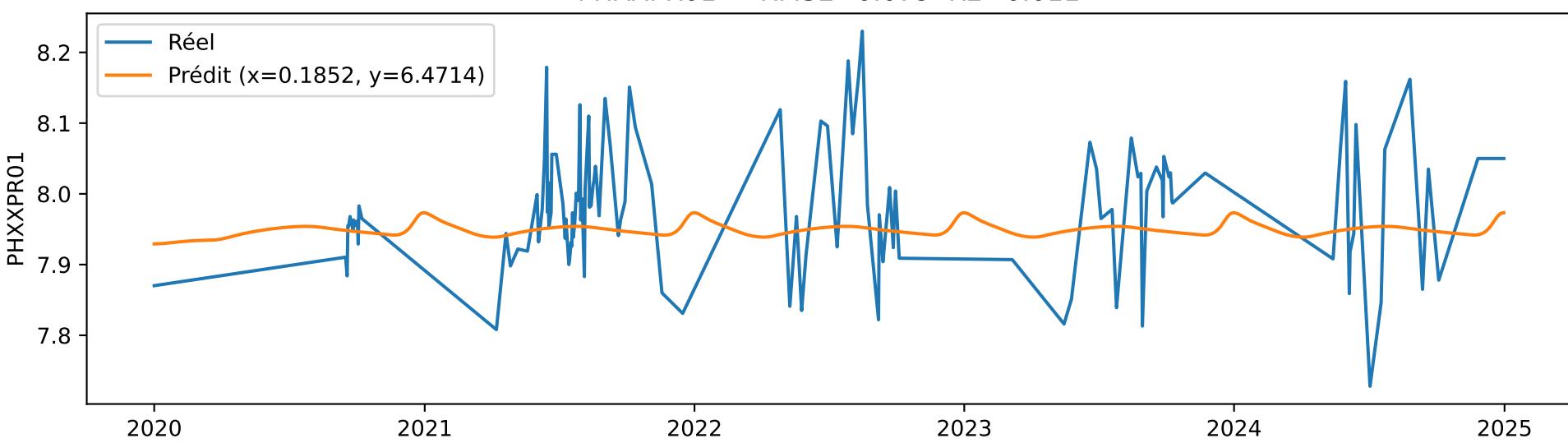


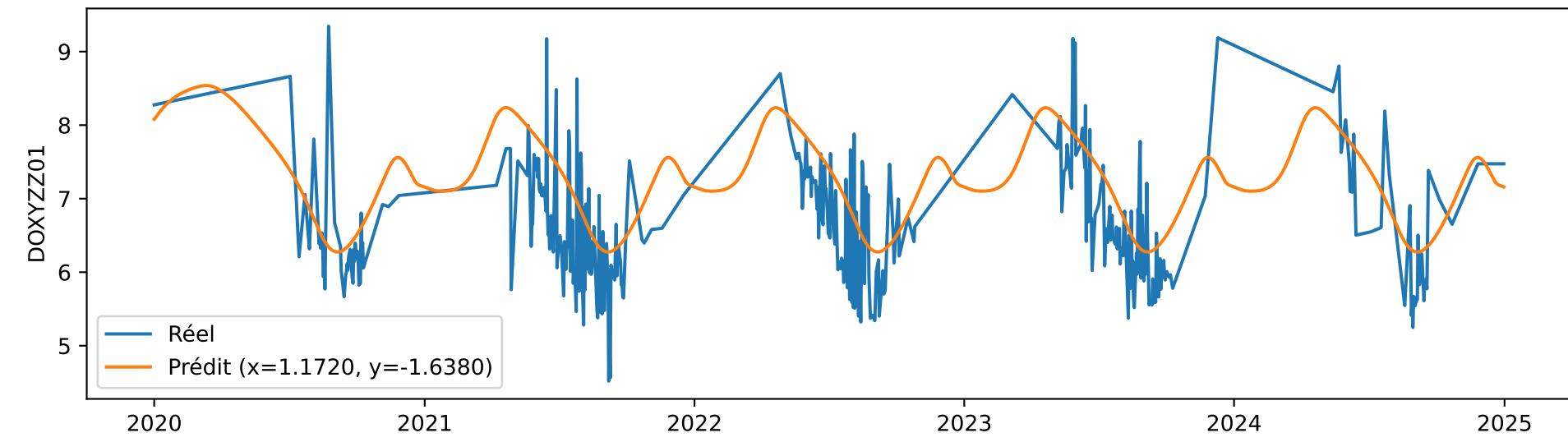
CPHLPR01 — RMSE=2.158 R2=0.003



PHXXPR01 — RMSE=0.079 R2=0.011



DOXYZZ01 — RMSE=0.720 R2=0.413



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=2.1576, R2=0.0034 ($x=-0.056798$, $y=1.153959$, $R^2_{opt}=0.003436$)
- PHXXPR01: RMSE=0.0794, R2=0.0114 ($x=0.185231$, $y=6.471438$, $R^2_{opt}=0.011373$)
- DOXYZZ01: RMSE=0.7202, R2=0.4128 ($x=1.172024$, $y=-1.638004$, $R^2_{opt}=0.412846$)