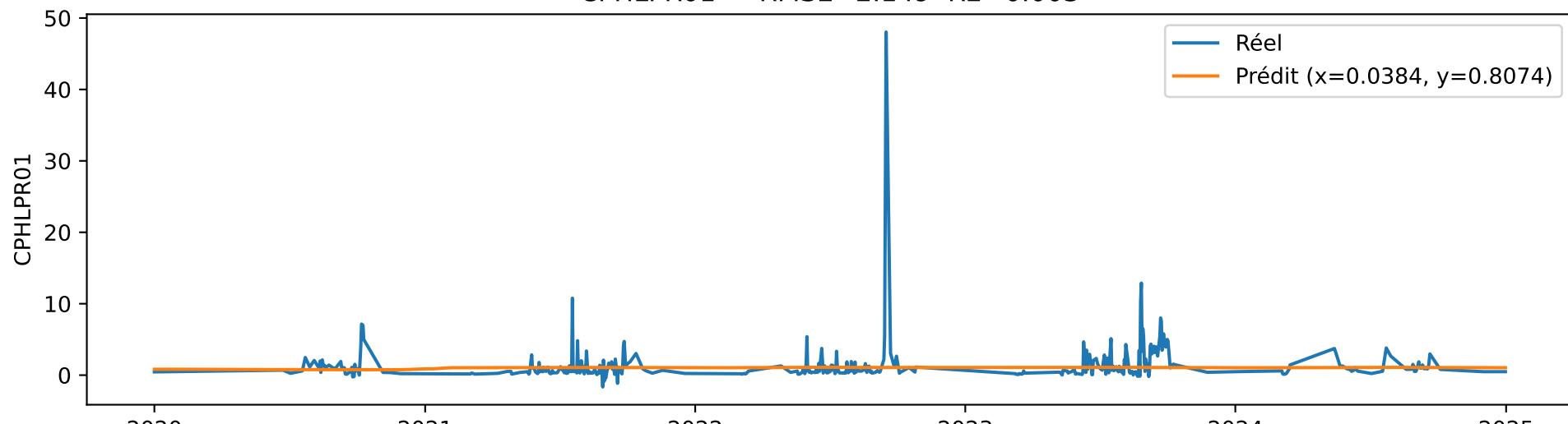
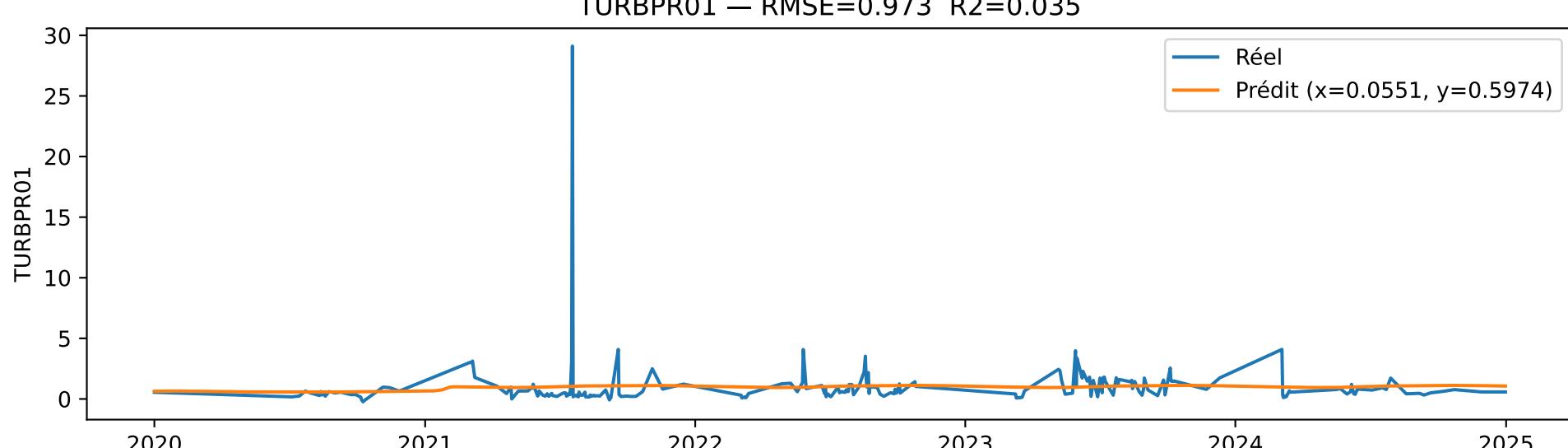


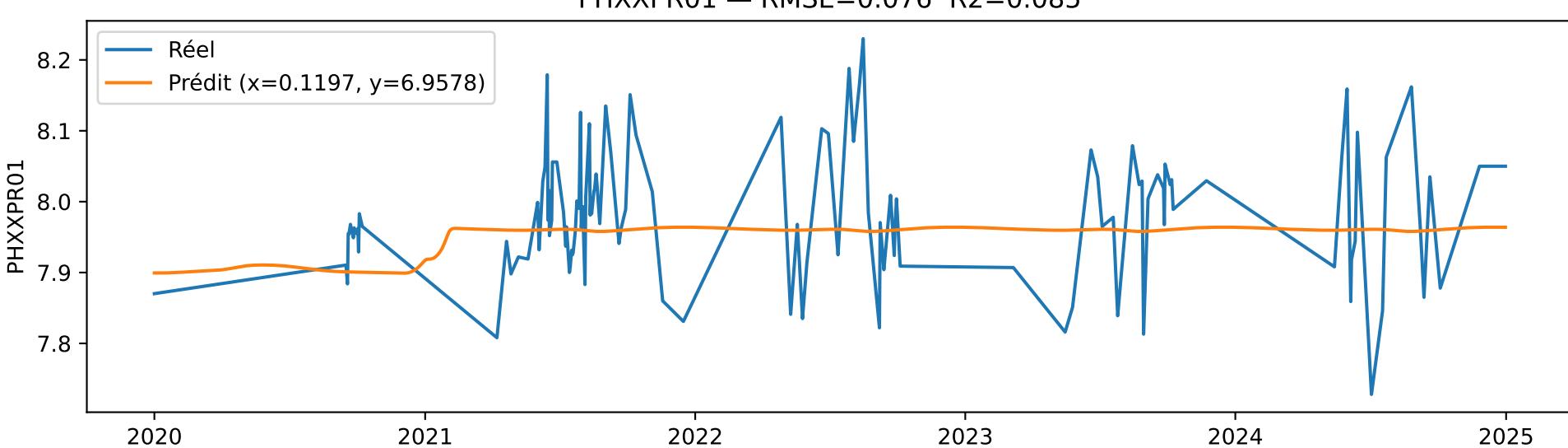
CPHLPR01 — RMSE=2.149 R2=0.003



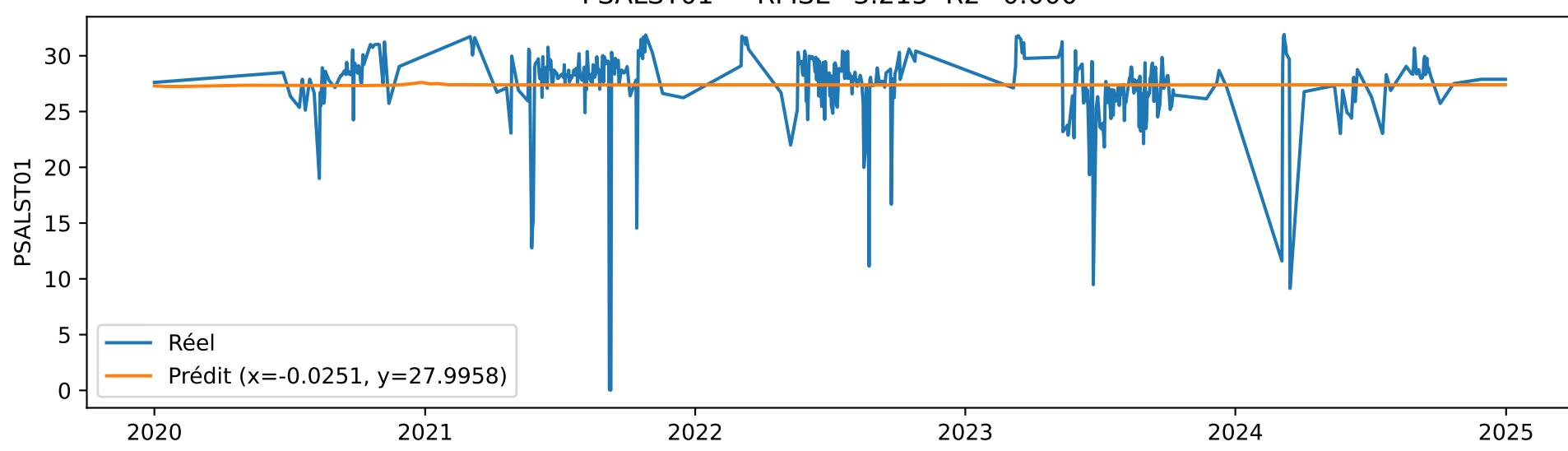
TURBPR01 — RMSE=0.973 R2=0.035



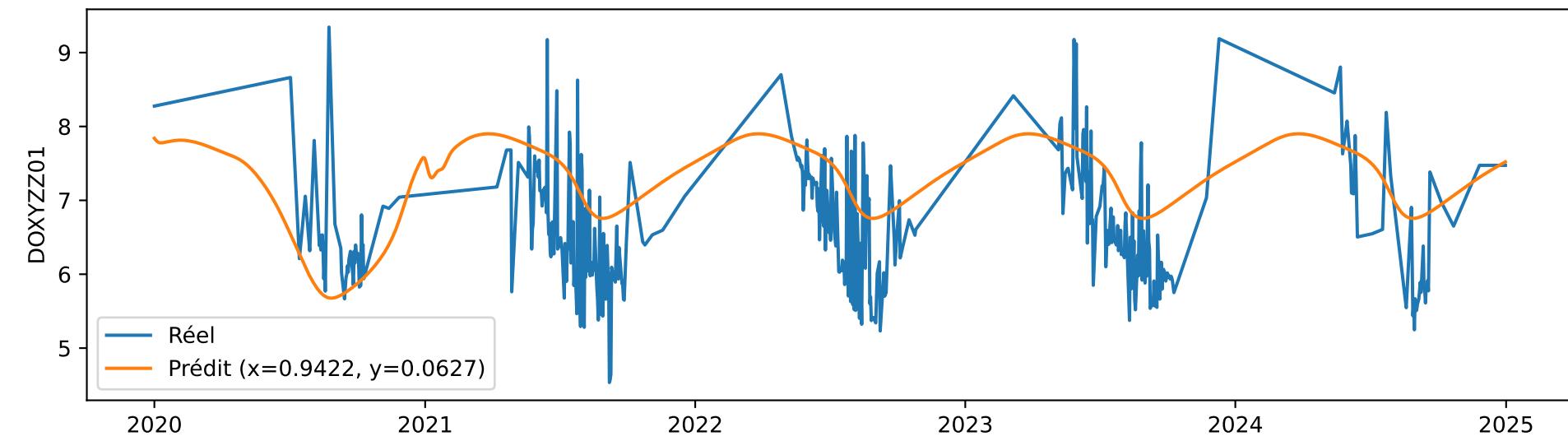
PHXXPR01 — RMSE=0.076 R2=0.085



PSALST01 — RMSE=3.215 R2=0.000



DOXYZZ01 — RMSE=0.782 R2=0.314



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=2.1487, R2=0.0027 ($x=0.038415$, $y=0.807391$, $R2_{opt}=0.002730$)
- TURBPR01: RMSE=0.9733, R2=0.0346 ($x=0.055138$, $y=0.597441$, $R2_{opt}=0.034555$)
- PHXXPR01: RMSE=0.0765, R2=0.0848 ($x=0.119658$, $y=6.957770$, $R2_{opt}=0.084813$)
- PSALST01: RMSE=3.2150, R2=0.0002 ($x=-0.025095$, $y=27.995805$, $R2_{opt}=0.000157$)
- DOXYZZ01: RMSE=0.7821, R2=0.3140 ($x=0.942235$, $y=0.062694$, $R2_{opt}=0.313963$)