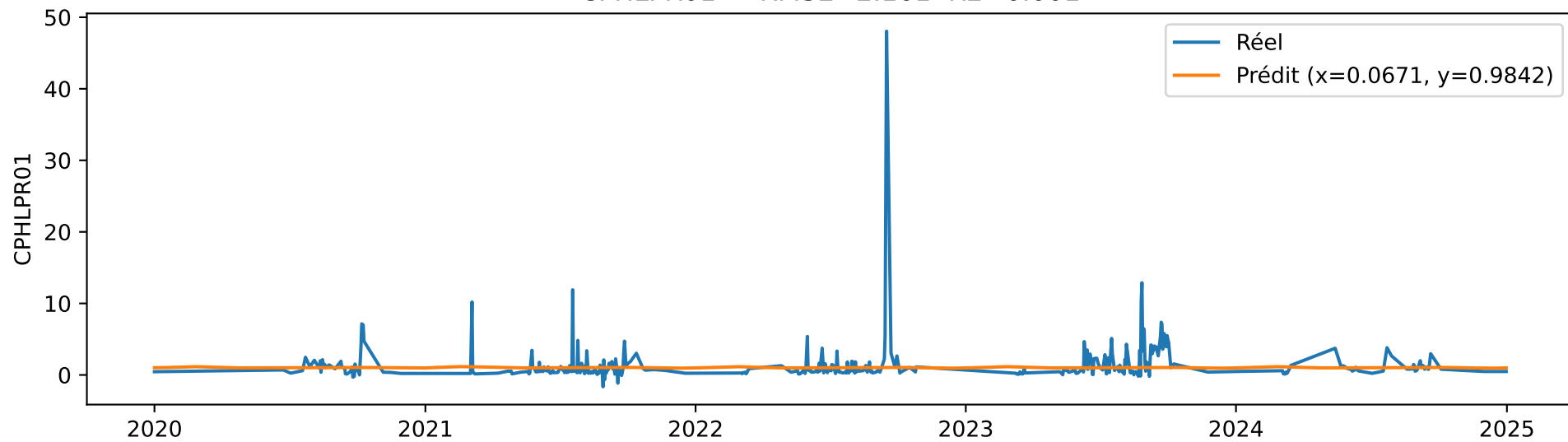
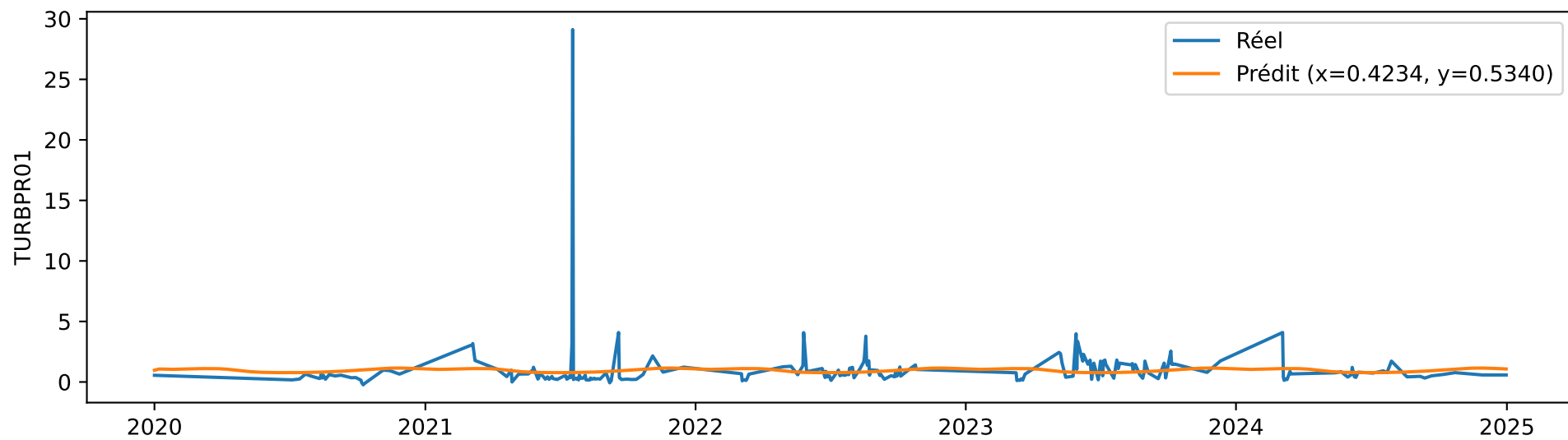


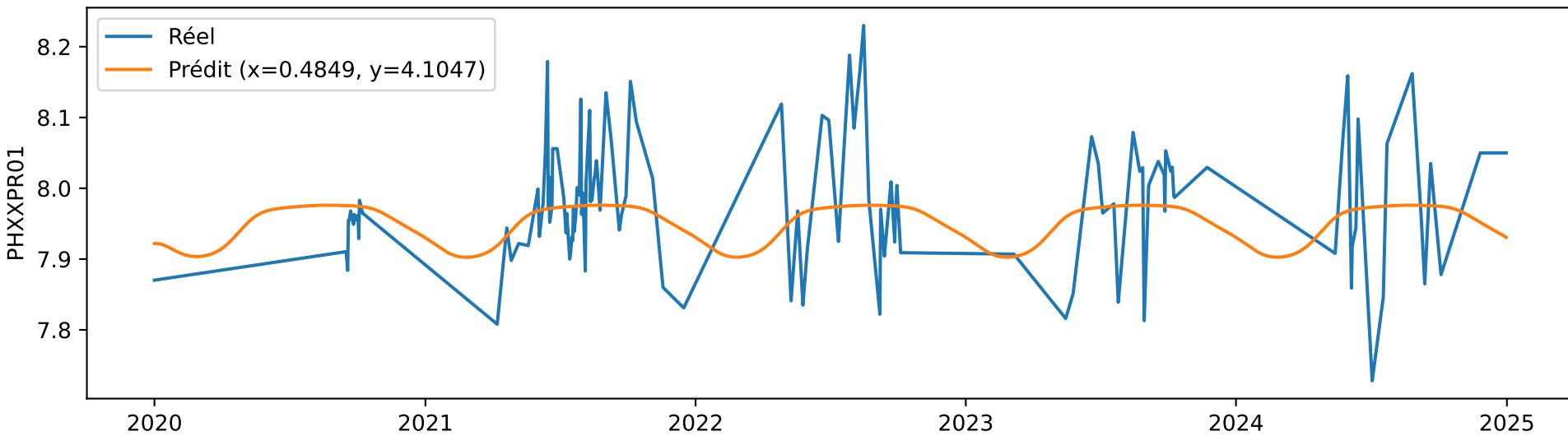
CPHLPR01 — RMSE=2.161 R2=0.001



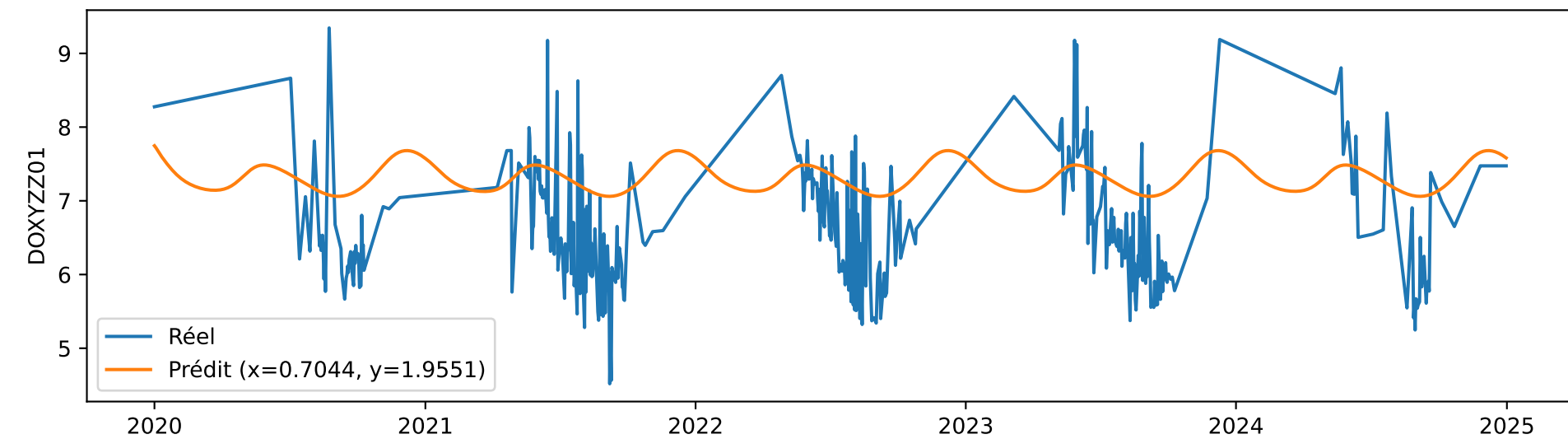
TURBPR01 — RMSE=0.971 R2=0.019



PHXXPR01 — RMSE=0.075 R2=0.112



DOXYZZ01 — RMSE=0.921 R2=0.039



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=2.1606, R2=0.0006 (x=0.067091, y=0.984214, R2\_opt=0.000599)
  - TURBPR01: RMSE=0.9713, R2=0.0190 (x=0.423368, y=0.534022, R2\_opt=0.019030)
  - PHXXPR01: RMSE=0.0752, R2=0.1124 (x=0.484941, y=4.104672, R2\_opt=0.112391)
  - DOXYZZ01: RMSE=0.9212, R2=0.0394 (x=0.704412, y=1.955141, R2\_opt=0.039434)