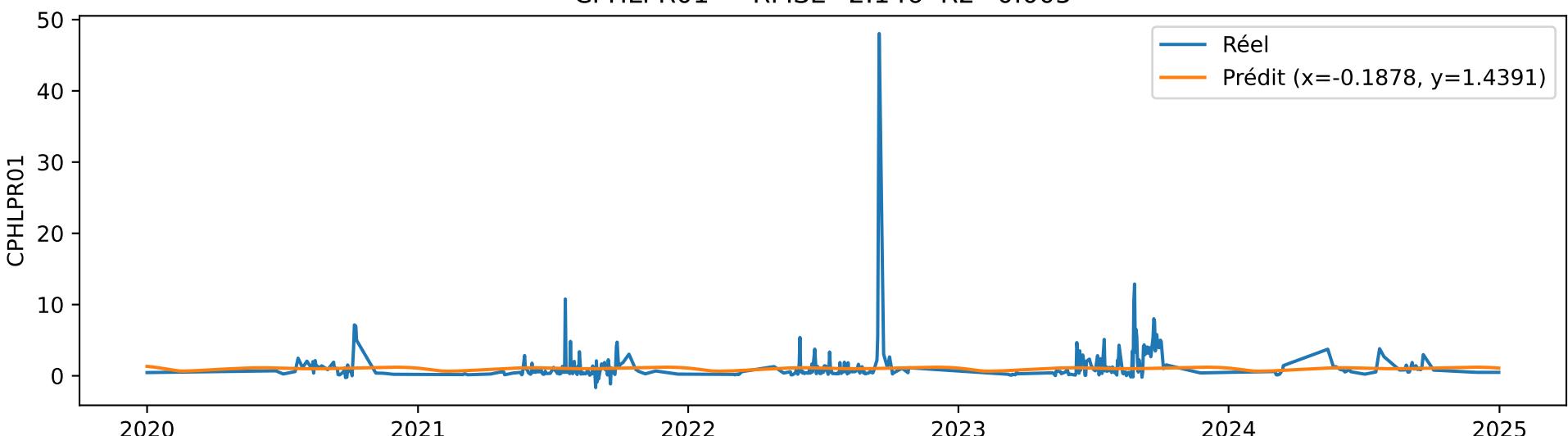
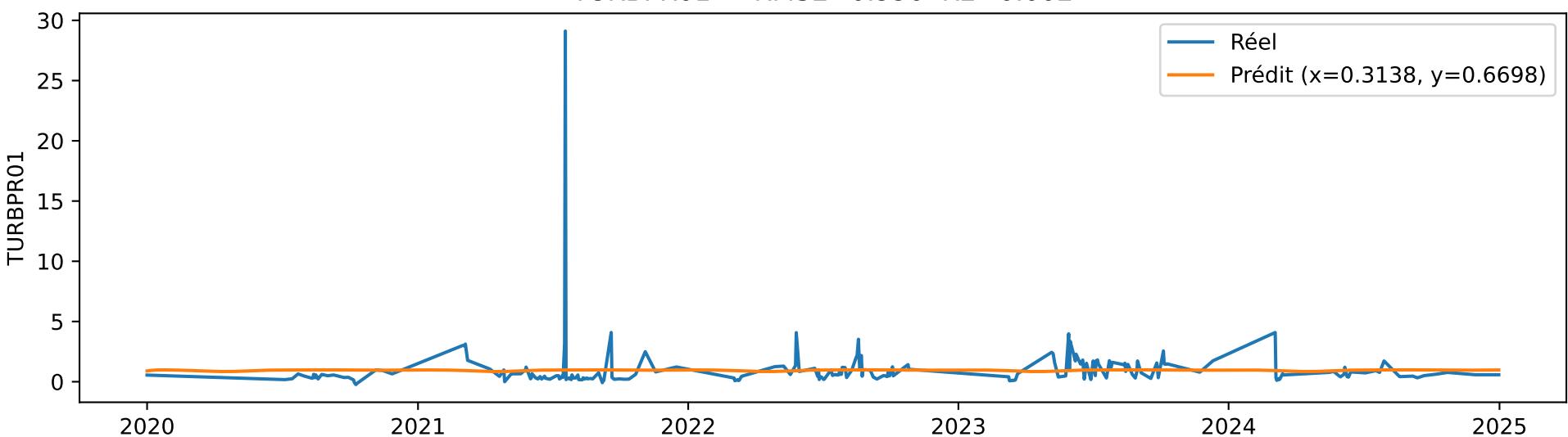


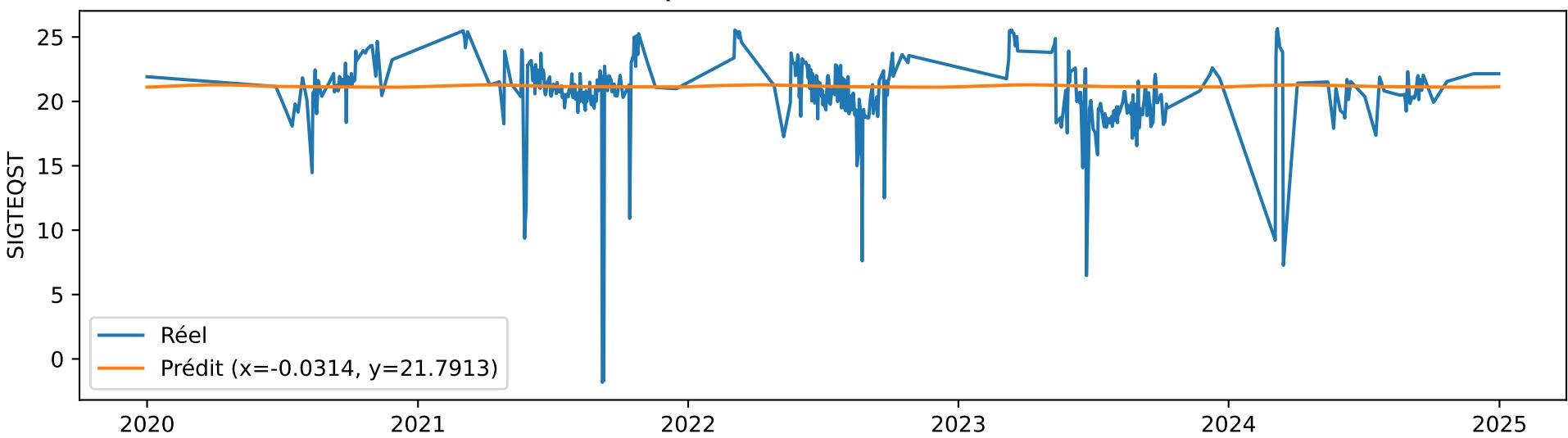
CPHLPR01 — RMSE=2.146 R2=0.005



TURBPR01 — RMSE=0.990 R2=0.002



SIGTEQST — RMSE=2.663 R2=0.001



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=2.1458, R2=0.0053 ($x=-0.187793$, $y=1.439080$, $R^2_{opt}=0.005350$)
- TURBPR01: RMSE=0.9896, R2=0.0018 ($x=0.313780$, $y=0.669808$, $R^2_{opt}=0.001847$)
- SIGTEQST: RMSE=2.6632, R2=0.0005 ($x=-0.031397$, $y=21.791300$, $R^2_{opt}=0.000541$)