

INNOSALE

Price Forecasting

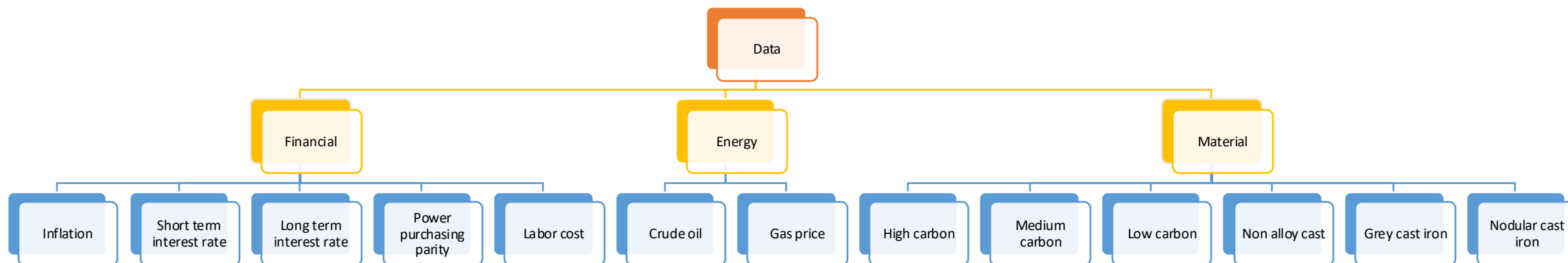
Demag Usecase

01.

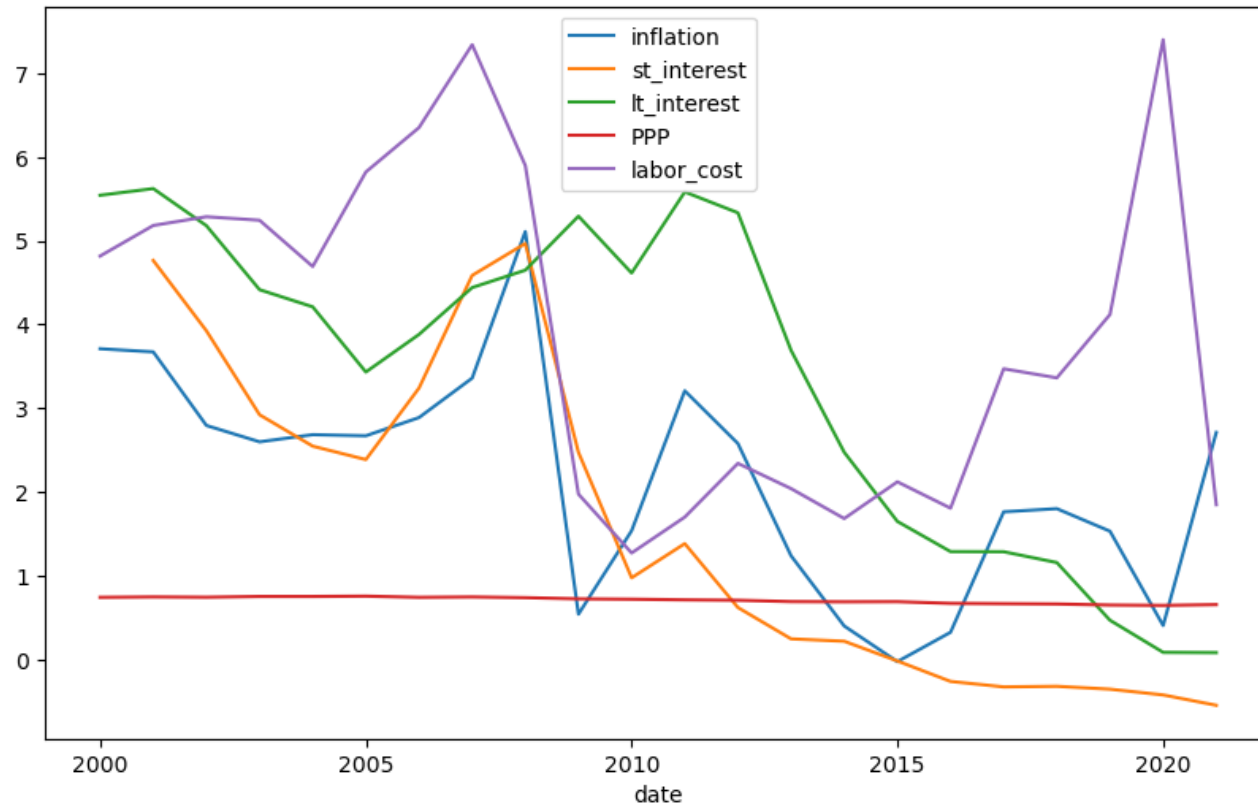
Data Exploration

(2004 – 2021)

Dataset Hierarchy

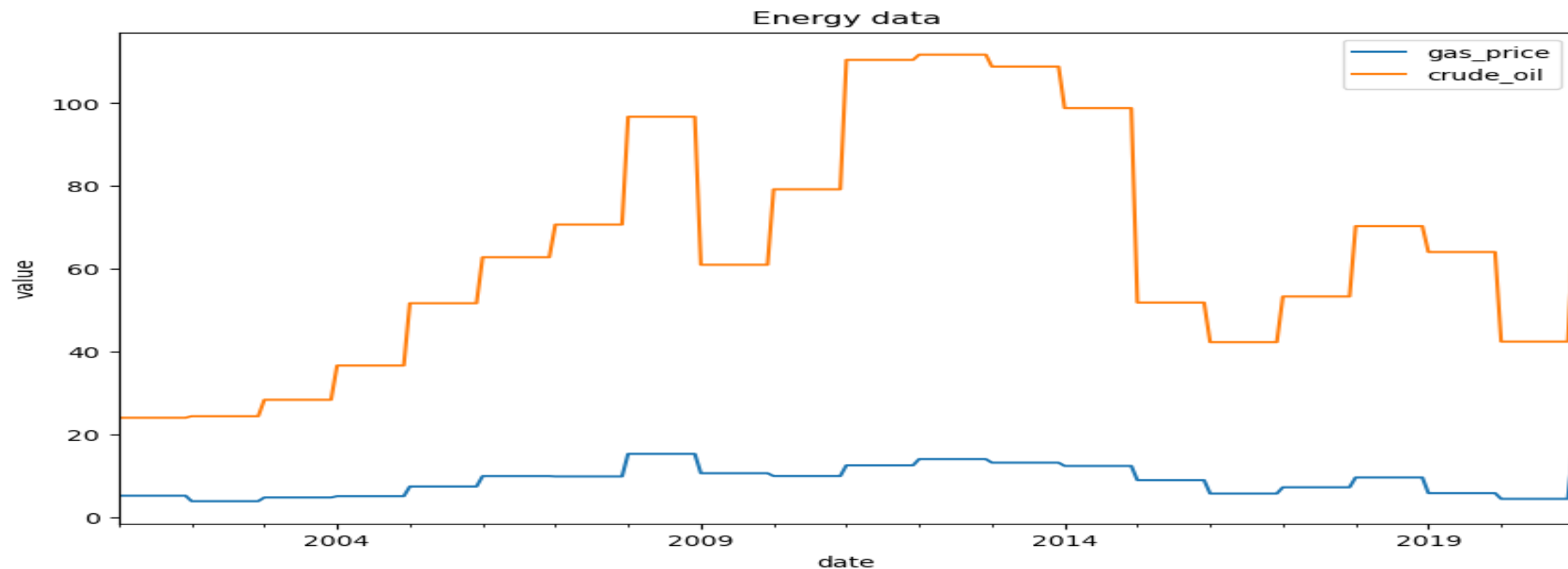


Financial data plot

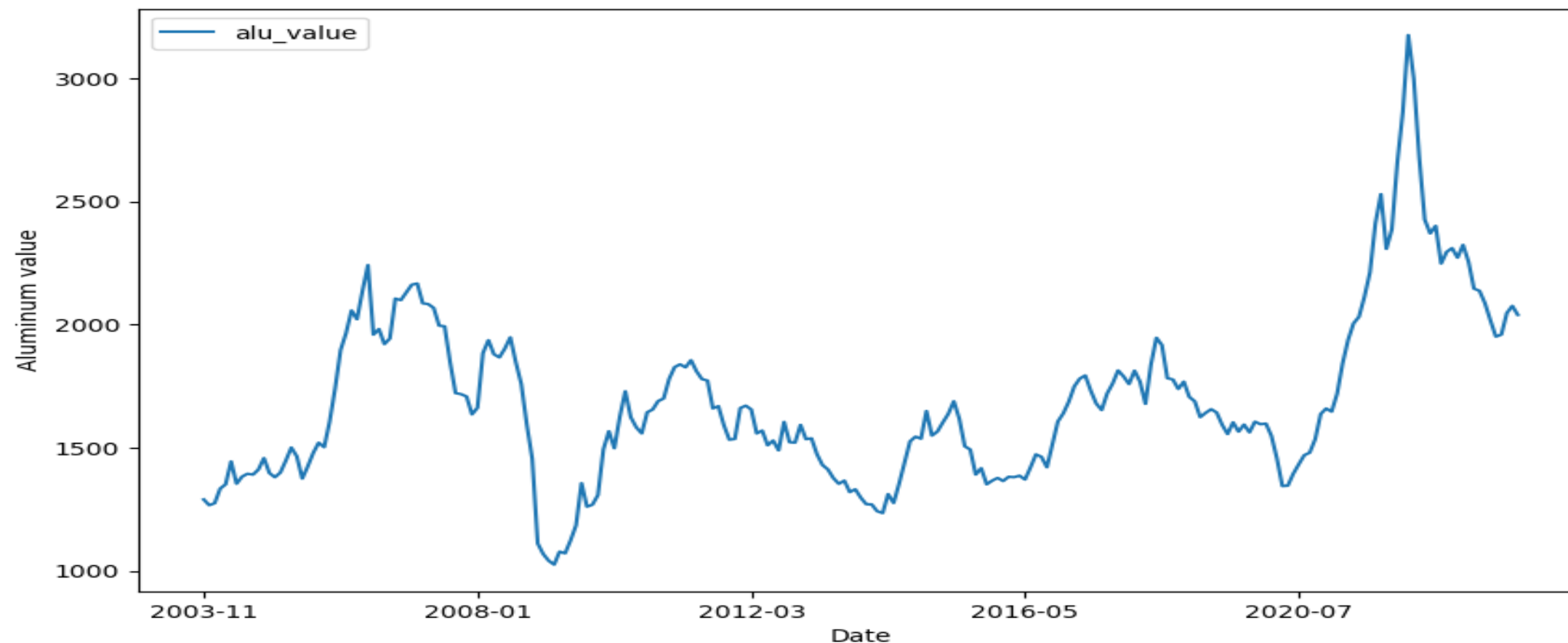


- Purchasing power parity value varies between 0.74 and 0.65

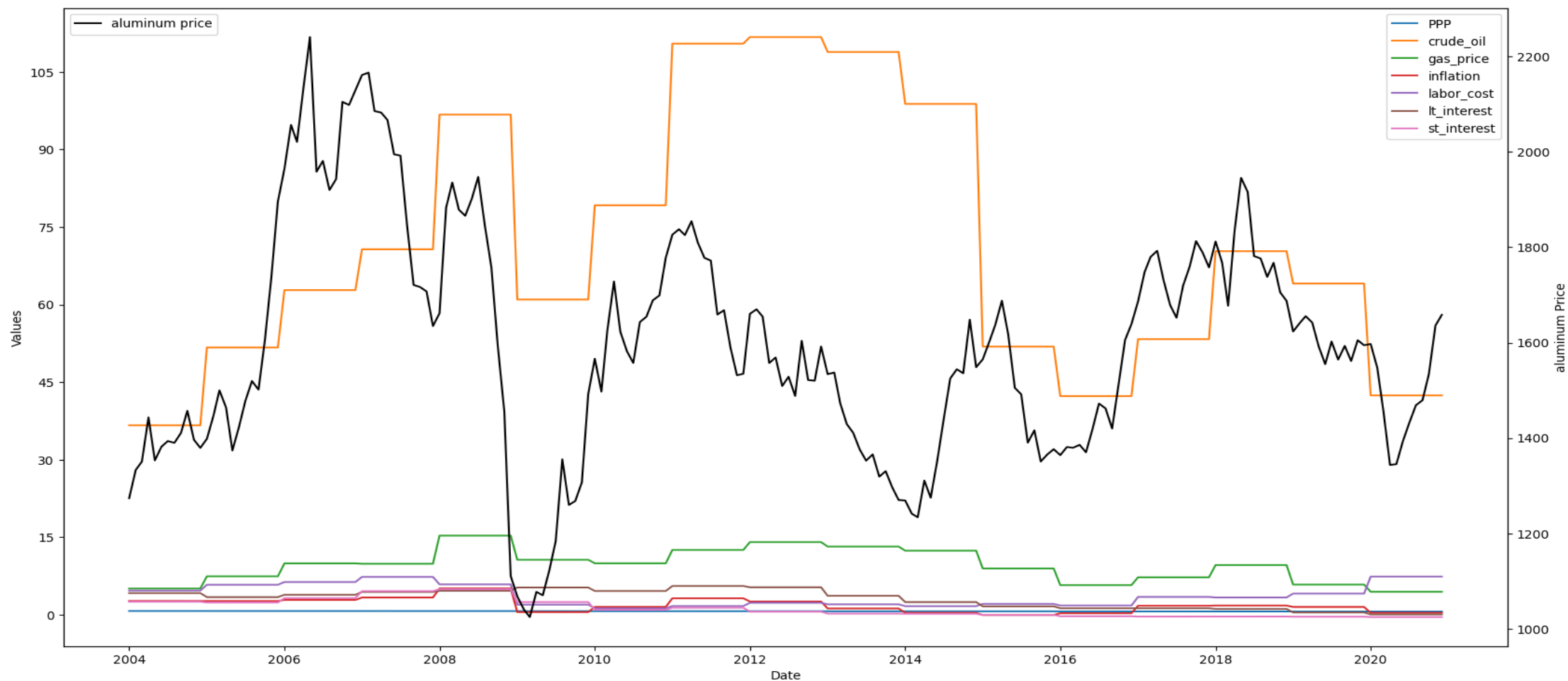
Energy data plot



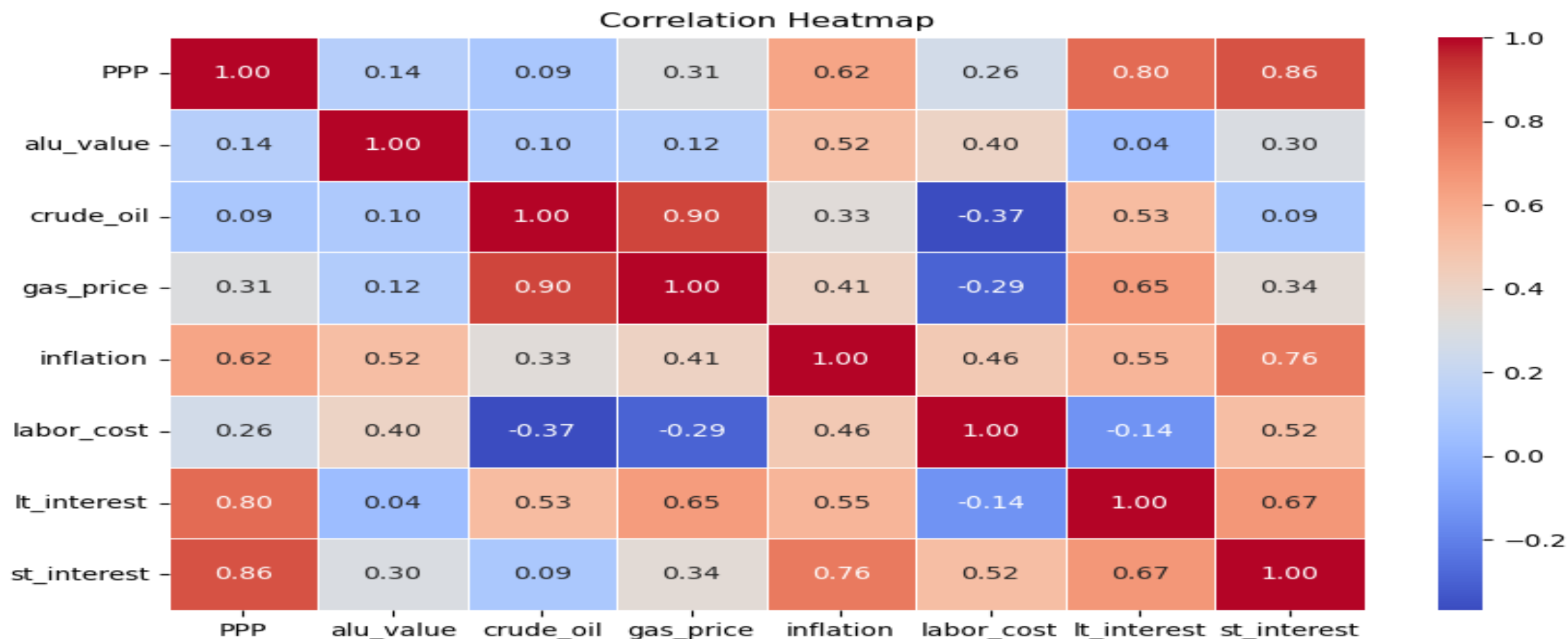
Material data plot



Accumulated price change across time



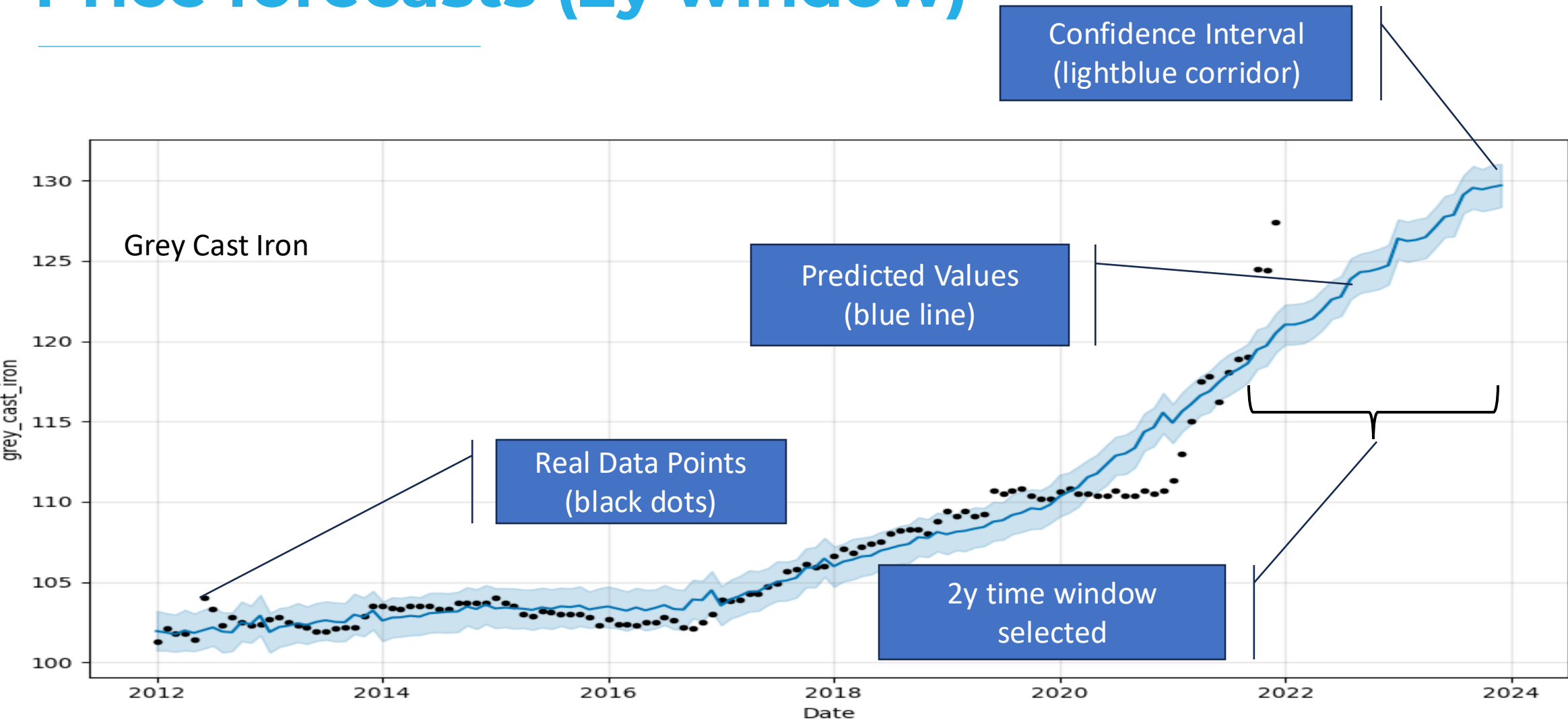
Correlation Heatmap between features



01.

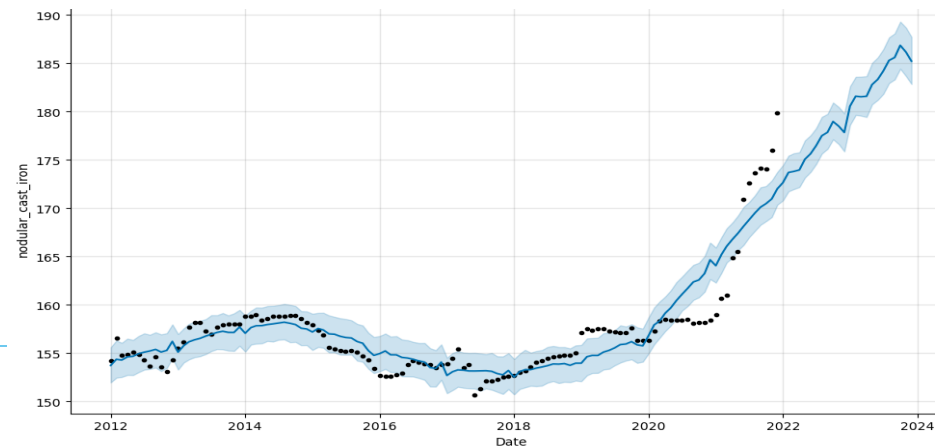
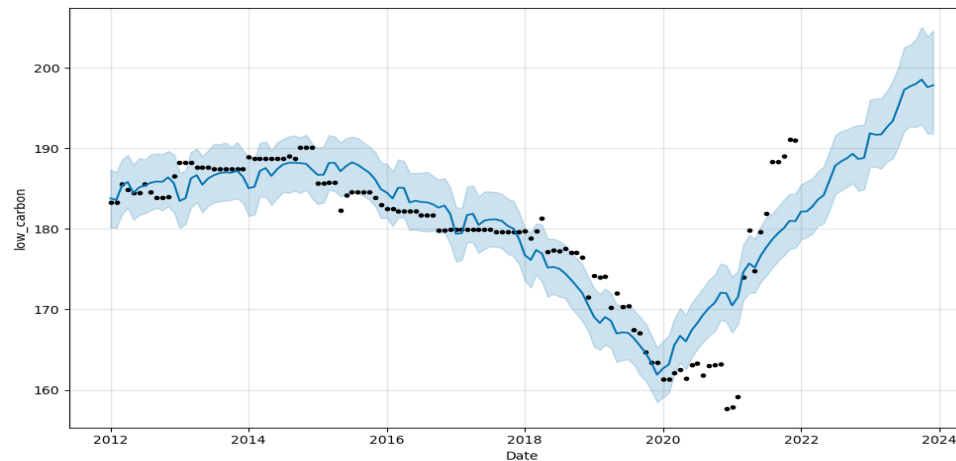
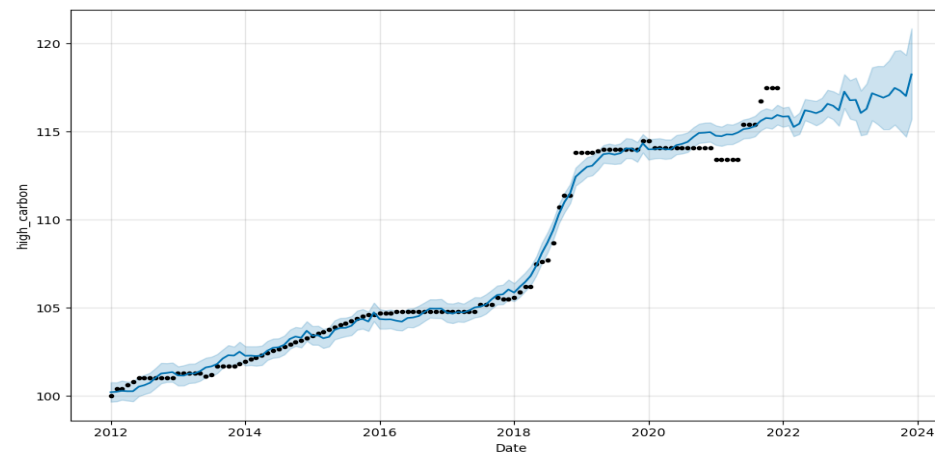
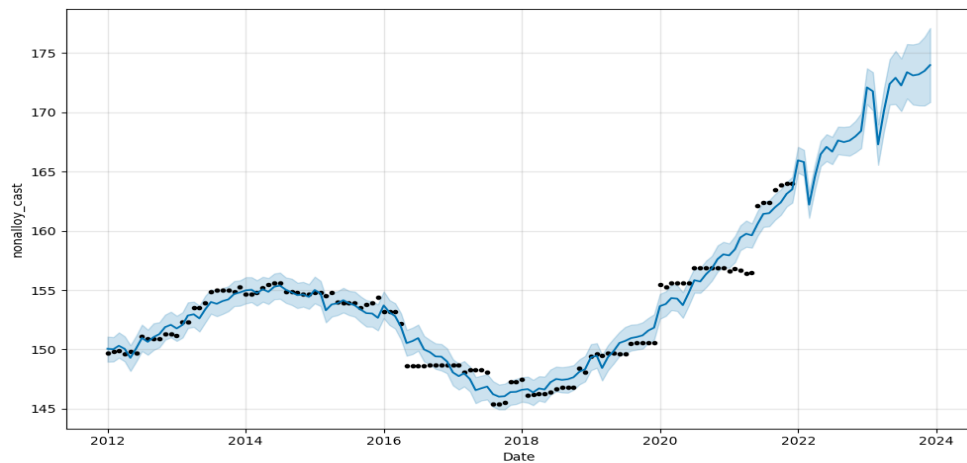
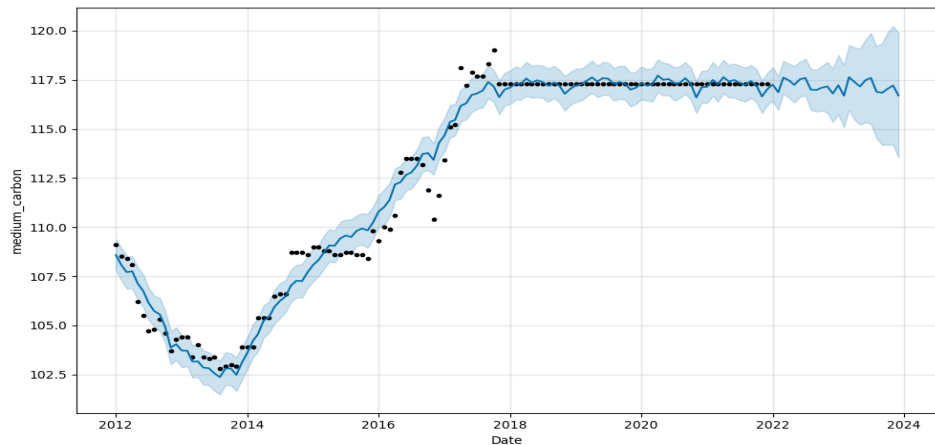
Prophet

Price forecasts (2y window)

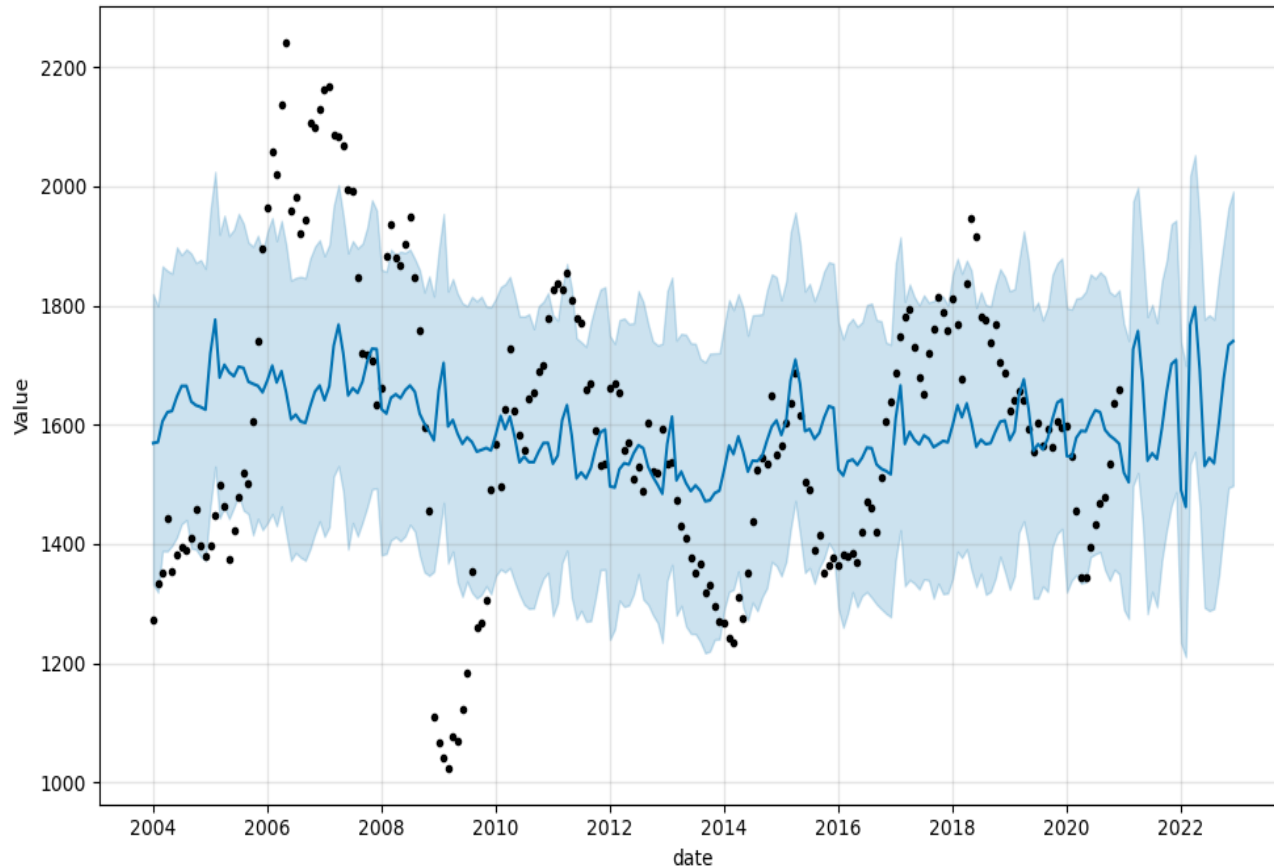


Alloy Predictions

2y forecasting window



Aluminum forecasting

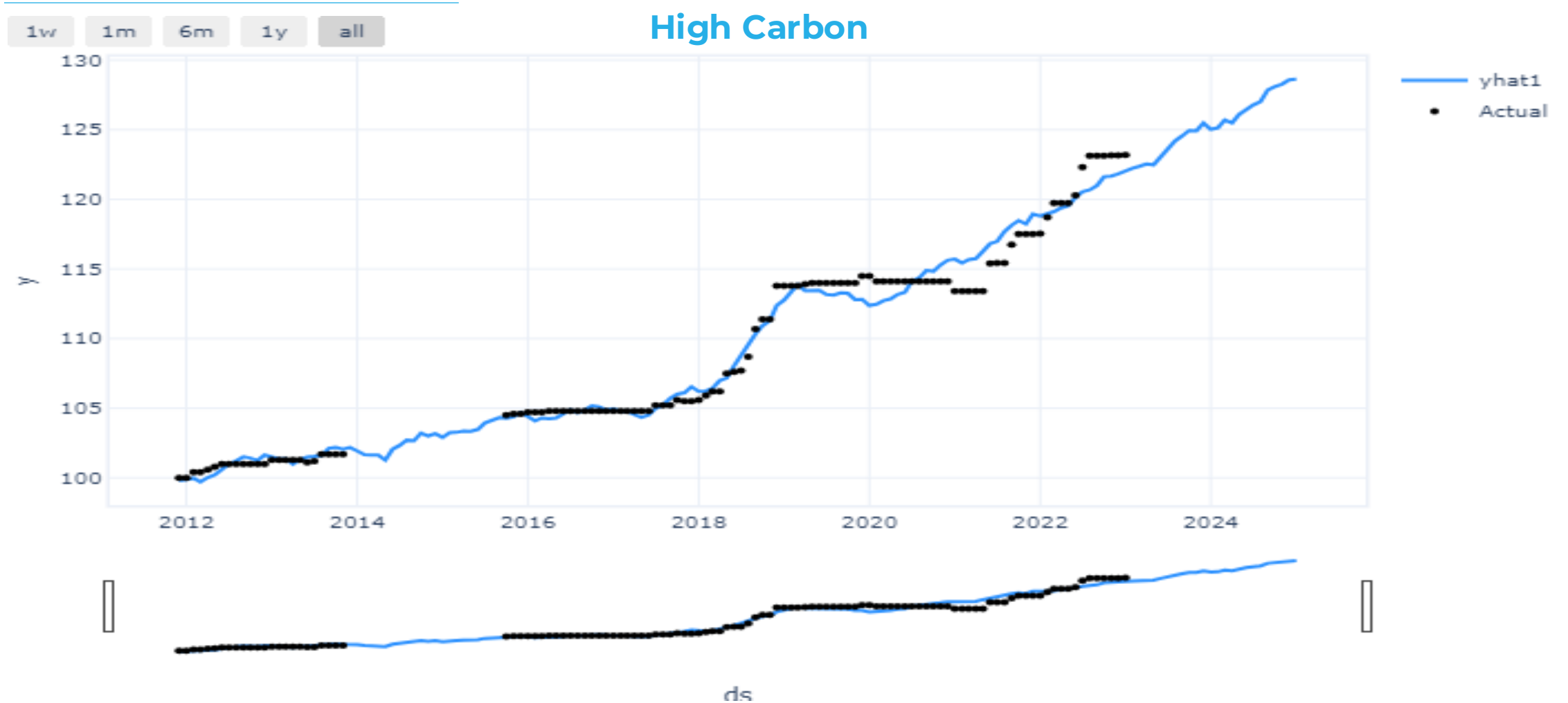


- Bad generalization fitting from the prophet model
- Need more fine tuning

01.

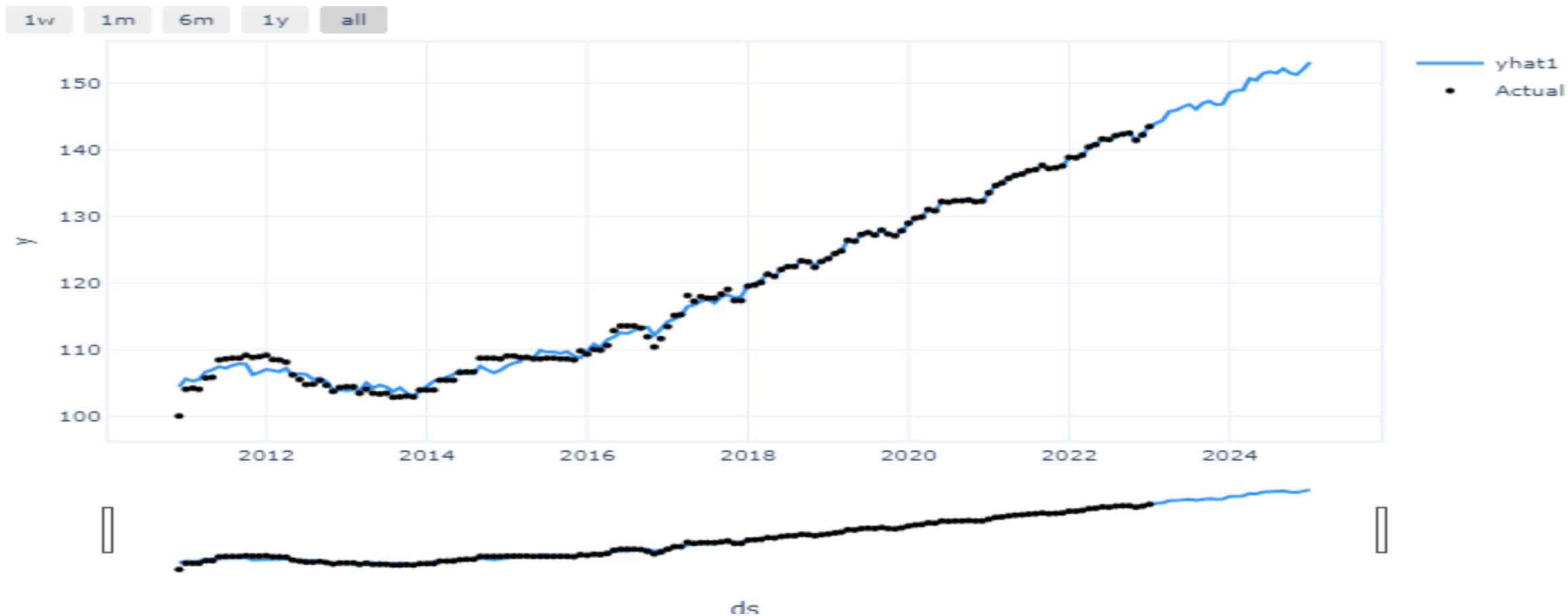
Neural Prophet

Price forecasts (2y window)



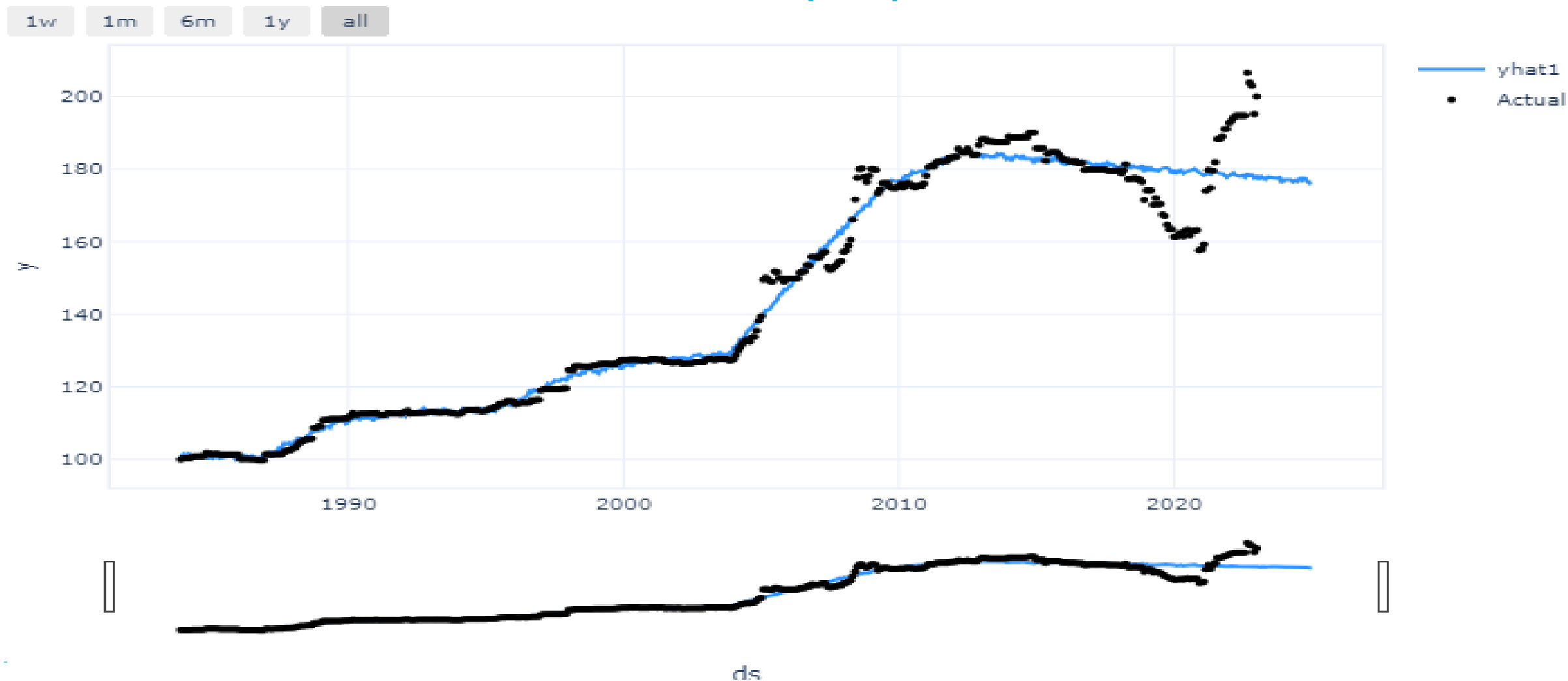
Price forecasts (2y window)

Medium Carbon



Price forecasts (2y window)

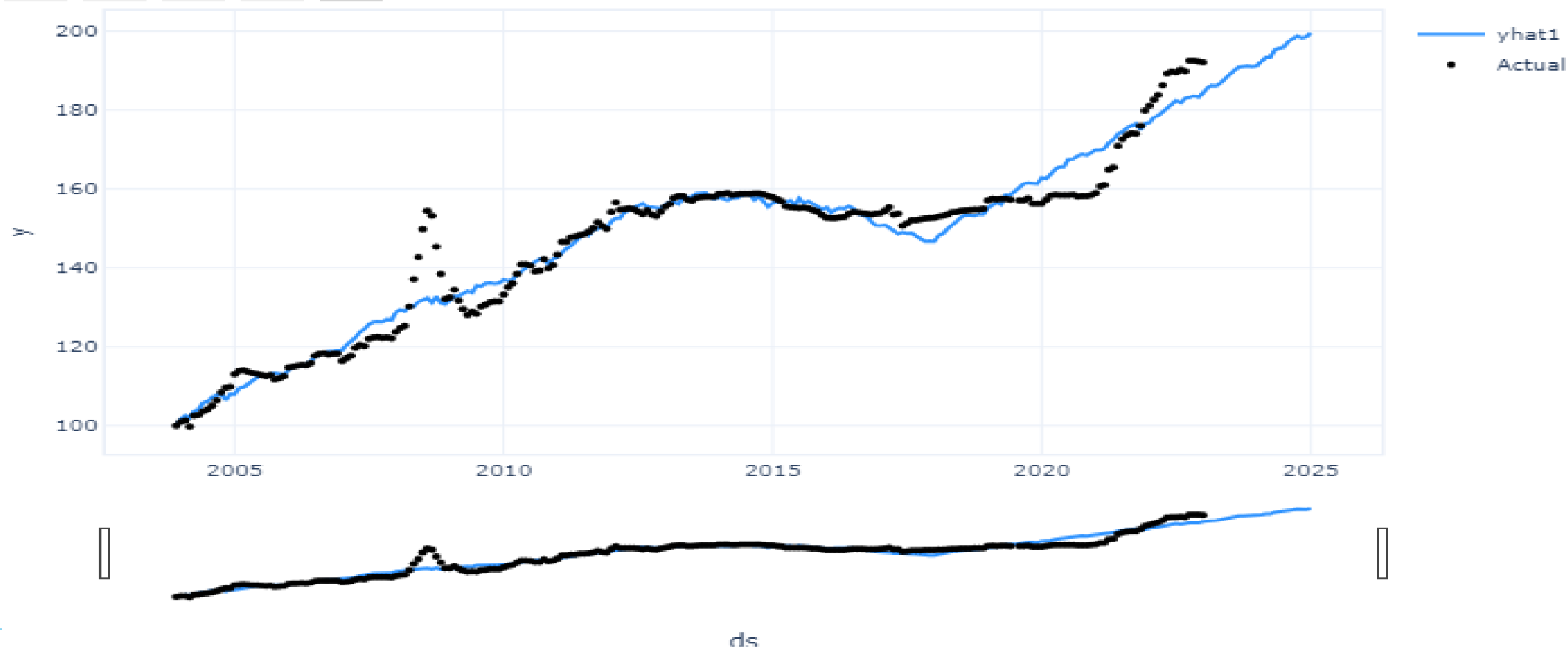
Low Carbon (ST37)



Price forecasts (2y window)

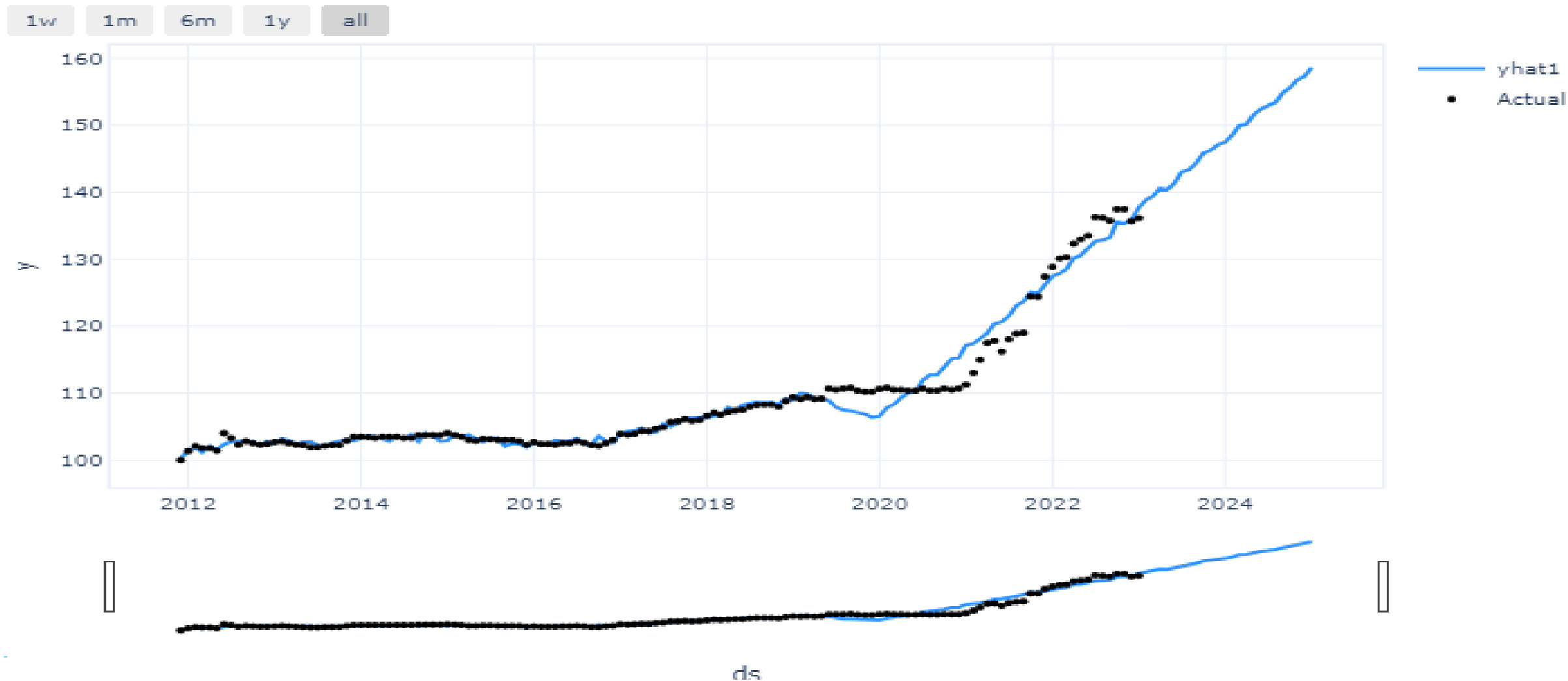
Nodular Cast Iron

1w 1m 6m 1y all



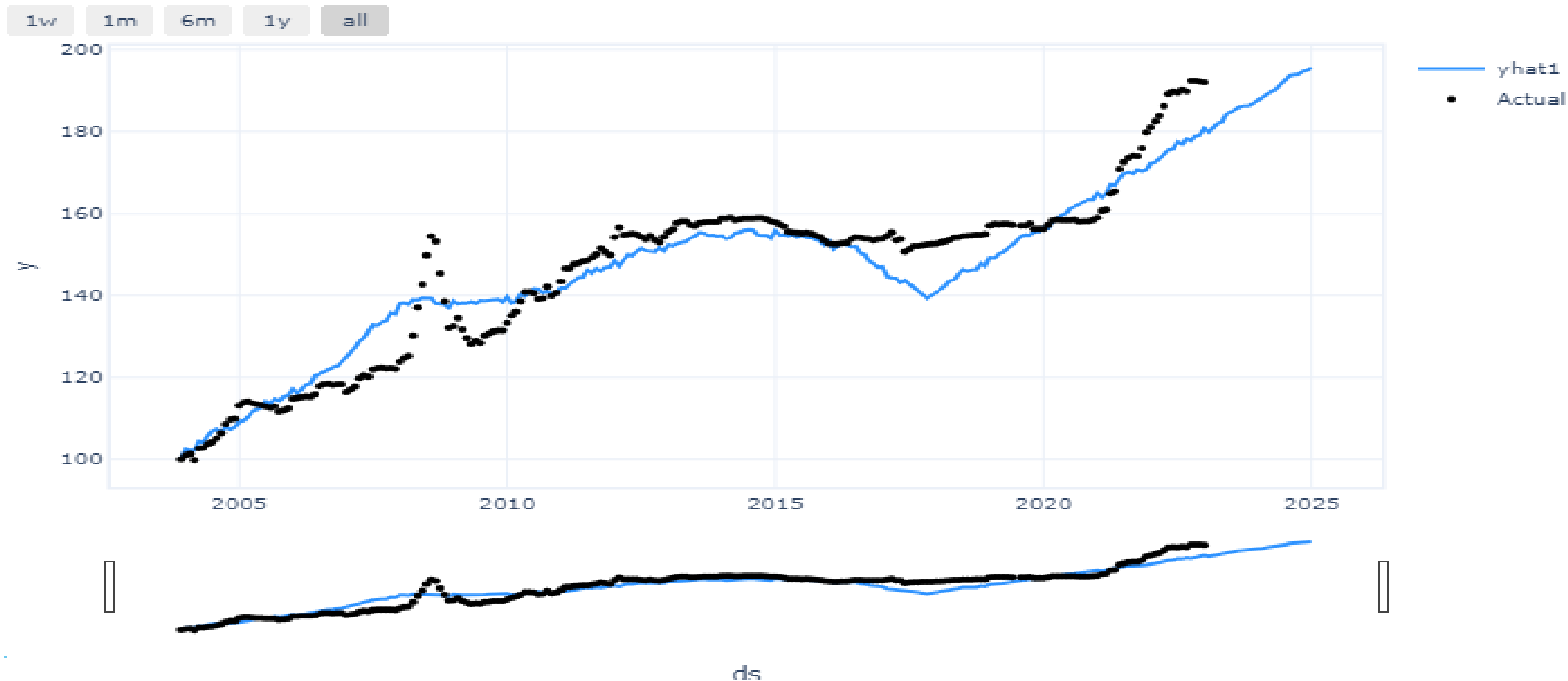
Price forecasts (2y window)

Grey Cast Iron



Price forecasts (2y window)

Non alloy Cast Iron



Price forecasts (2y window)

Aluminum

1w 1m 6m 1y all



Price forecasts (2y window)

Copper



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Under the umbrella of:



The authors thank all the INNOSALE partners for their common work and contributions:

