

# How is the French fuel mix impacting short-term prices?

French Energy Day  
Clement Bouilloux

**MONTEL**

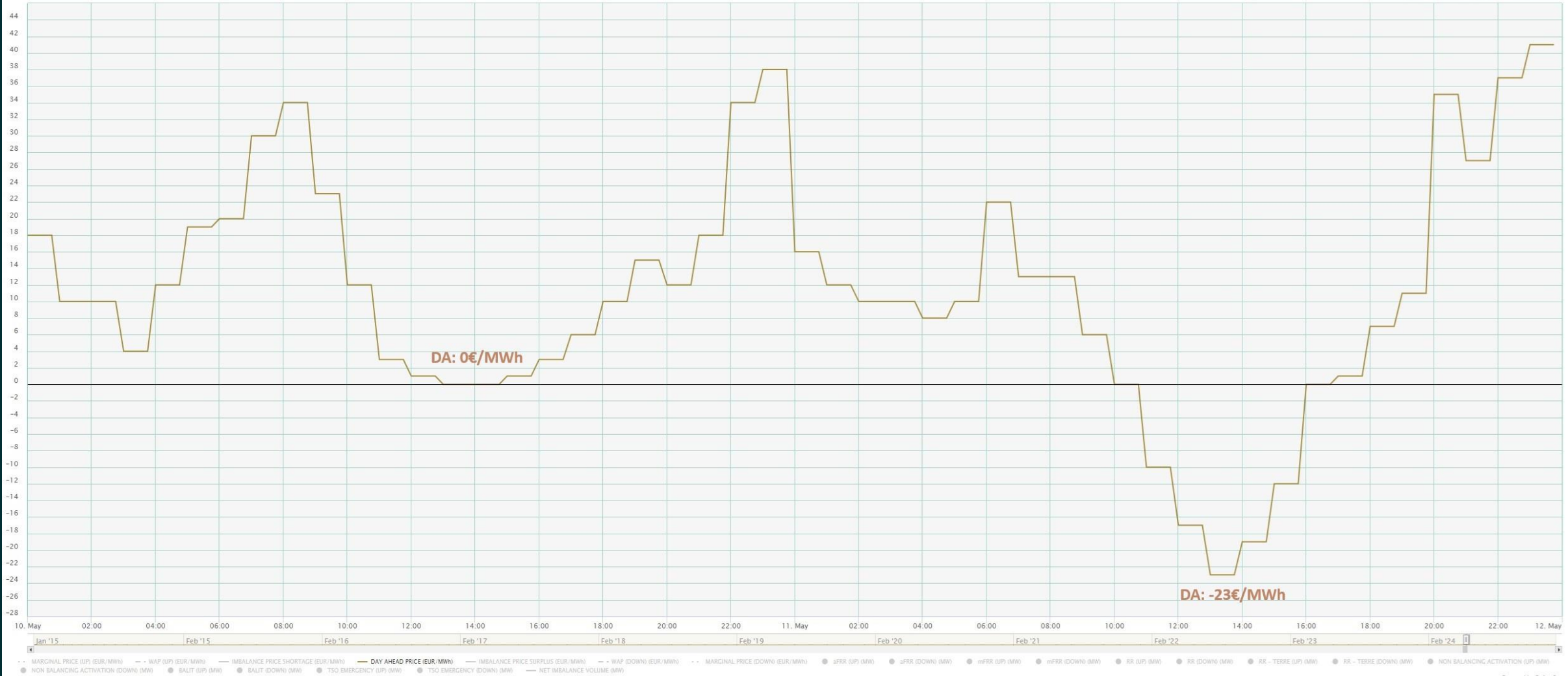


# DA Price

FRENCH NIV ANALYSIS FOR 10/05/2024 TO 12/05/2024 (€/MWh - MW)

1D 1W 2W 1M 3M 1Y All

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# Imbalance Price

FRENCH NIV ANALYSIS FOR 10/05/2024 TO 12/05/2024 (€/MWh - MW)





# Marginal Imbalance Price

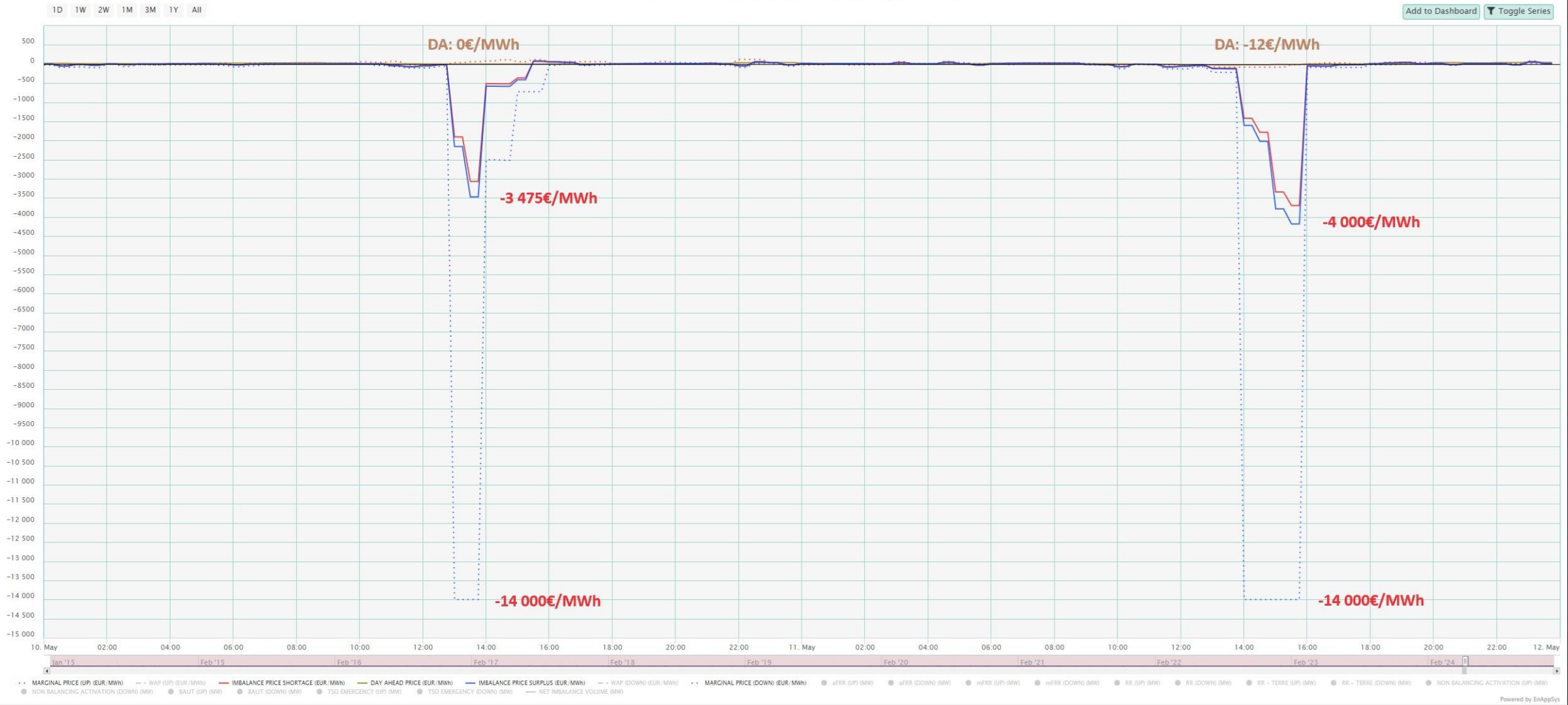
FRENCH NIV ANALYSIS FOR 10/05/2024 TO 12/05/2024 (€/MWh - MW)





# Marginal Imbalance Price

FRENCH NIV ANALYSIS FOR 10/05/2024 TO 12/05/2024 (€/MWh - MW)





# Topics

- Oversupplied Days
- French Fuel Mix Evolution
- Managing the Oversupply
- Market Impact
- Wrap Up



# Topics

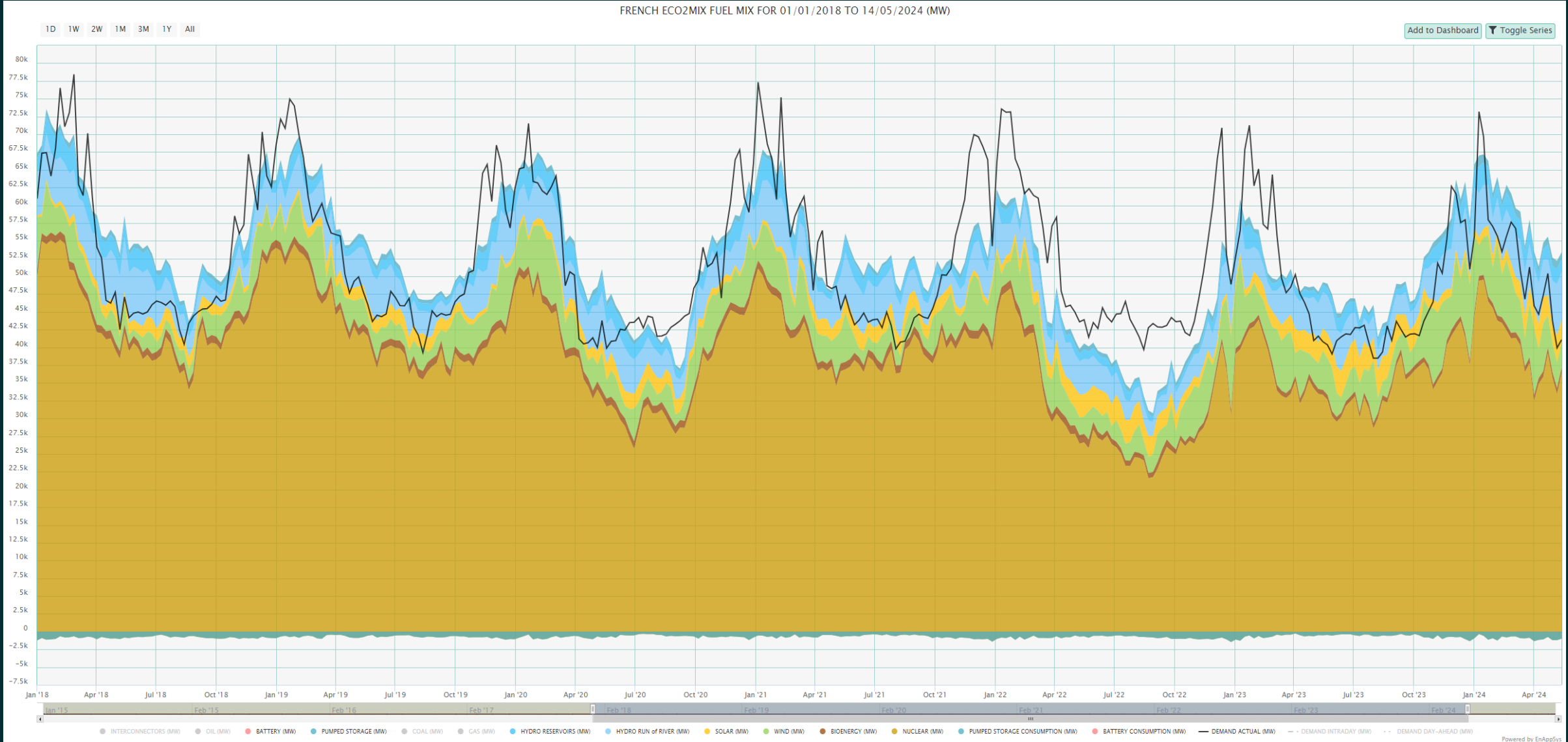
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# French Fuel Mix: 2018 - 2024

FRENCH ECO2MIX FUEL MIX FOR 01/01/2018 TO 14/05/2024 (MW)

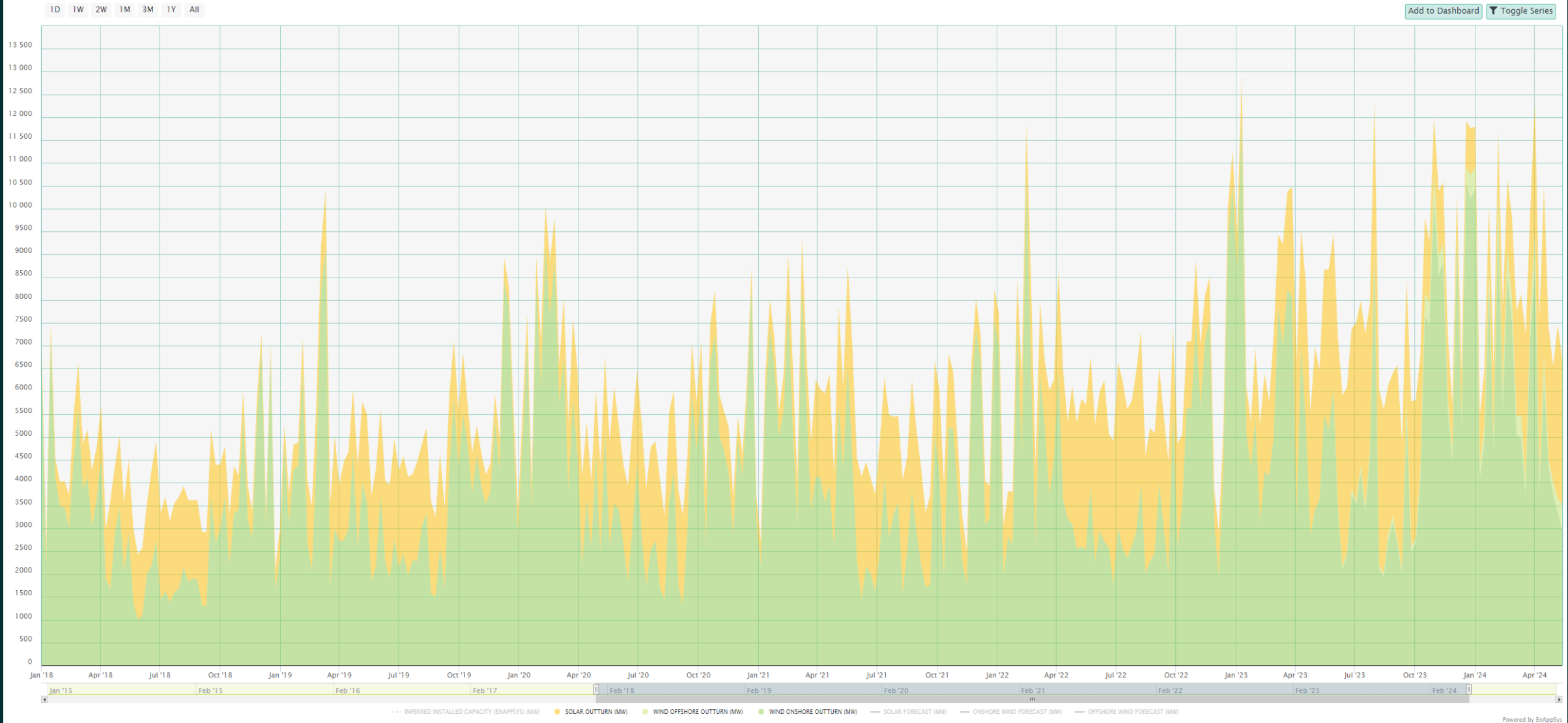






# Wind & Solar: 2018 - 2024

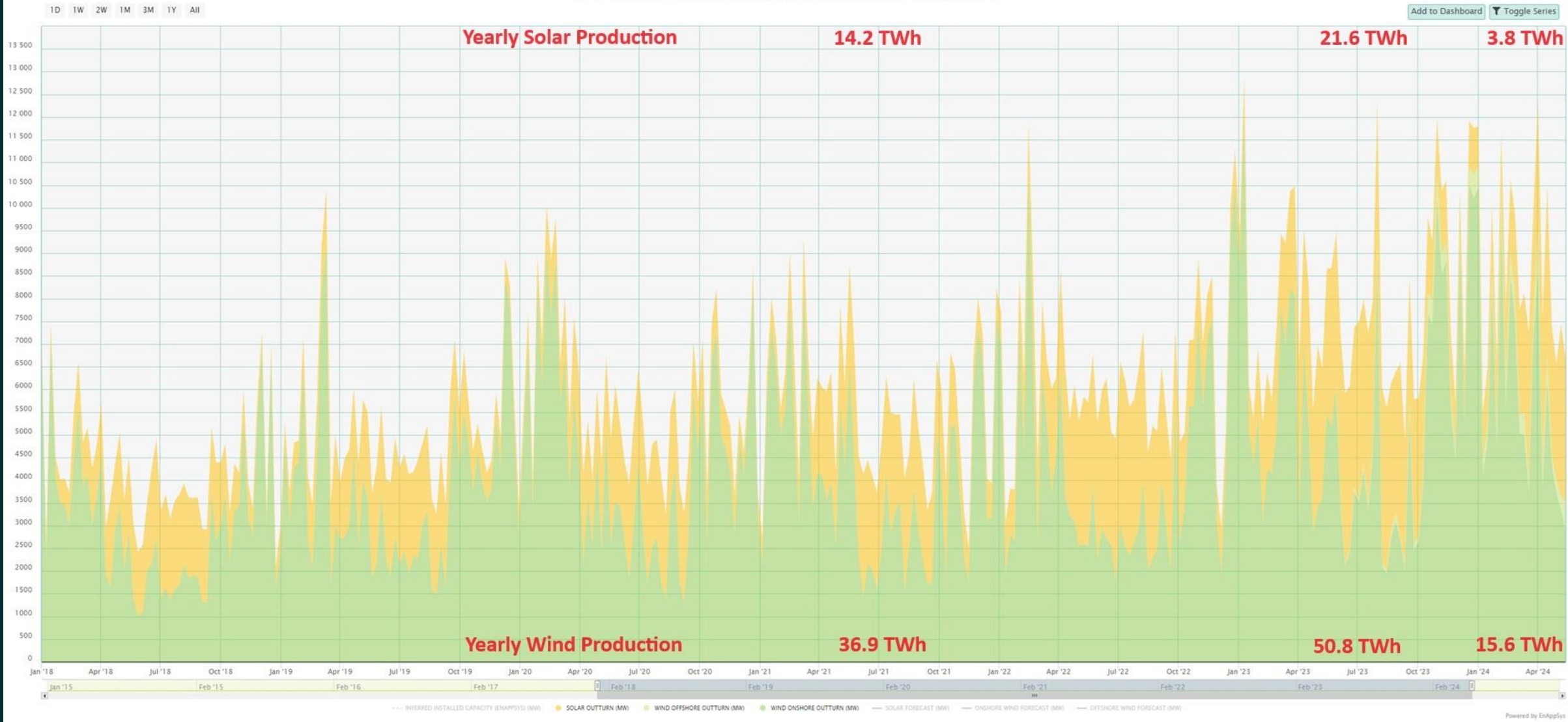
FRENCH AGGREGATED RENEWABLES FORECAST FOR 01/01/2018 TO 14/05/2024 (MW)





# Wind & Solar: 2018 - 2024

FRENCH AGGREGATED RENEWABLES FORECAST FOR 01/01/2018 TO 14/05/2024 (MW)



# Topics

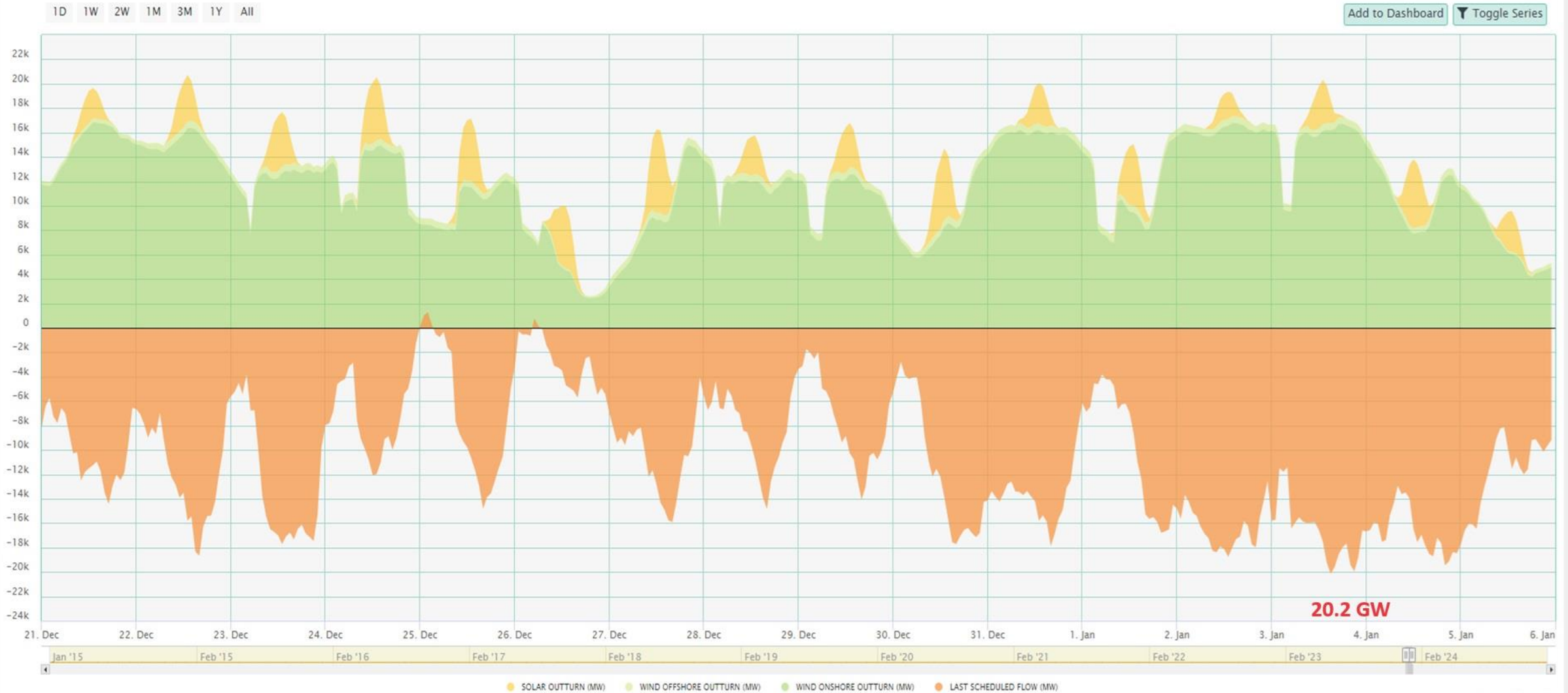
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# Exports vs Wind & Solar

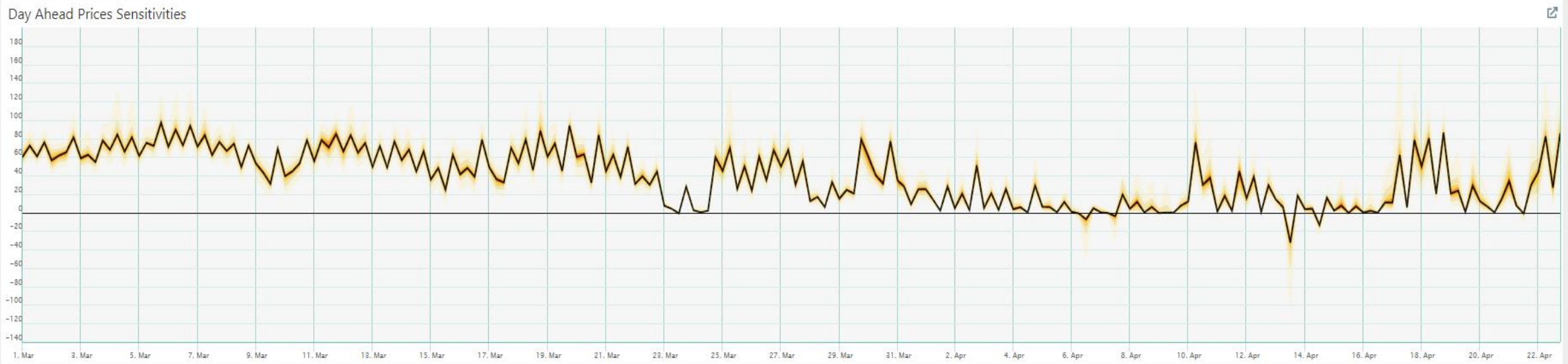
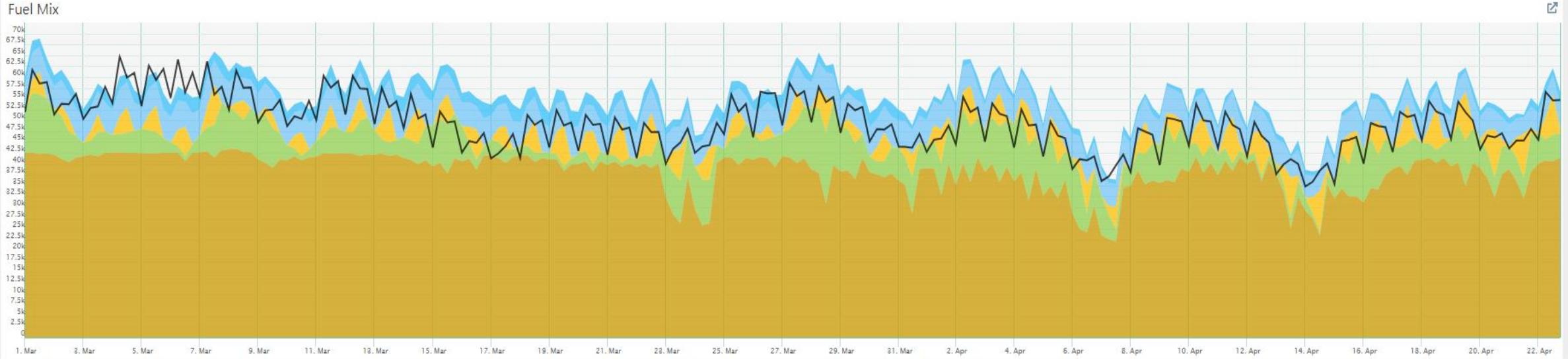
FRENCH AGGREGATED RENEWABLES FORECAST FOR 21/12/2023 TO 06/01/2024 (MW)







# Nuclear Modulation







# Wind & Solar Curtailement: 16th of April



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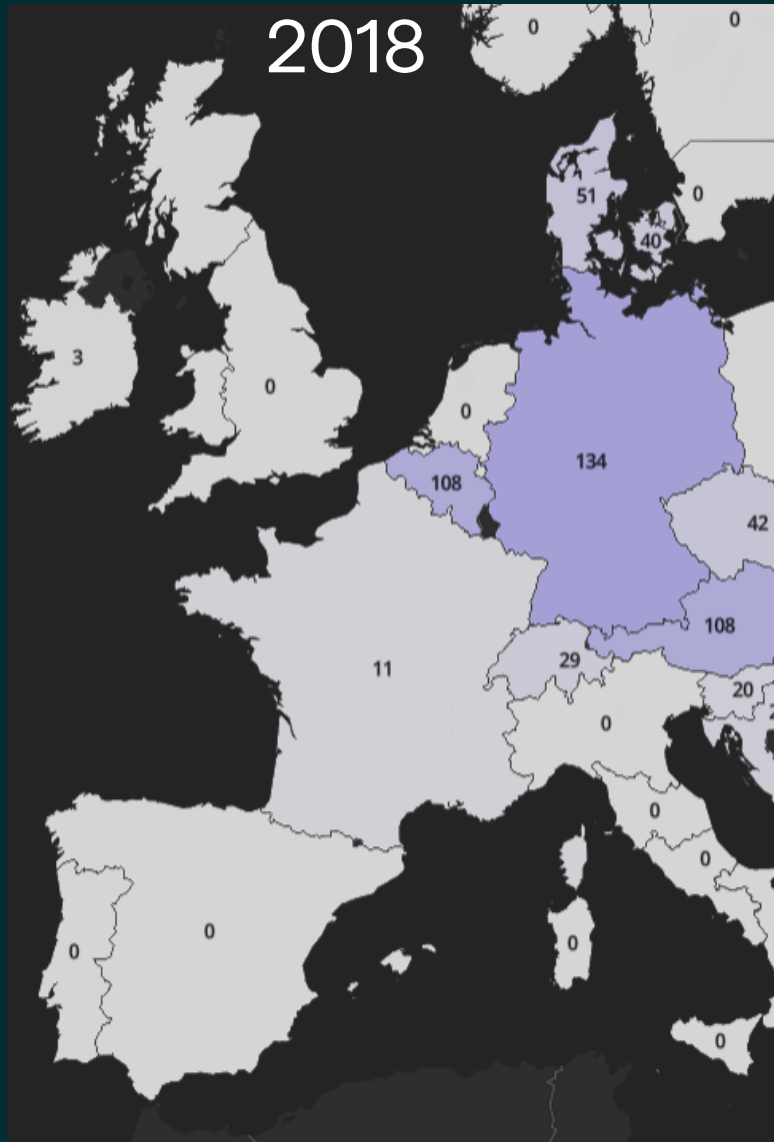




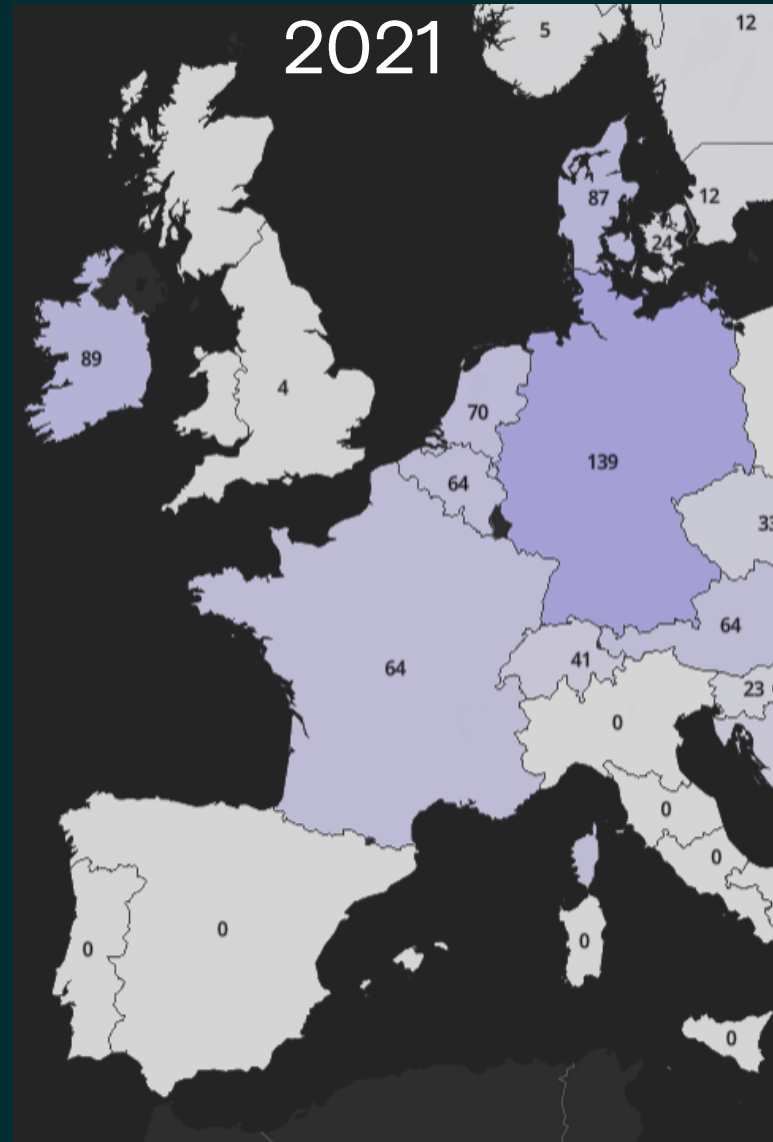
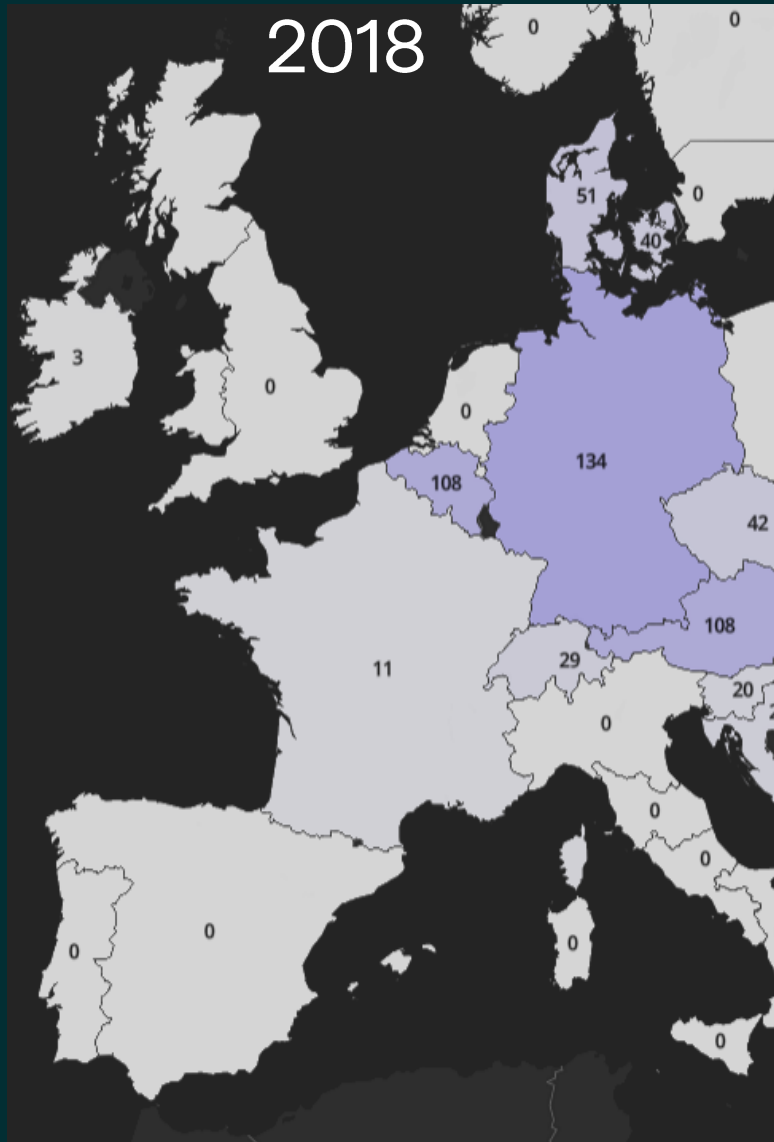
# Negativ Day-Ahead Hours

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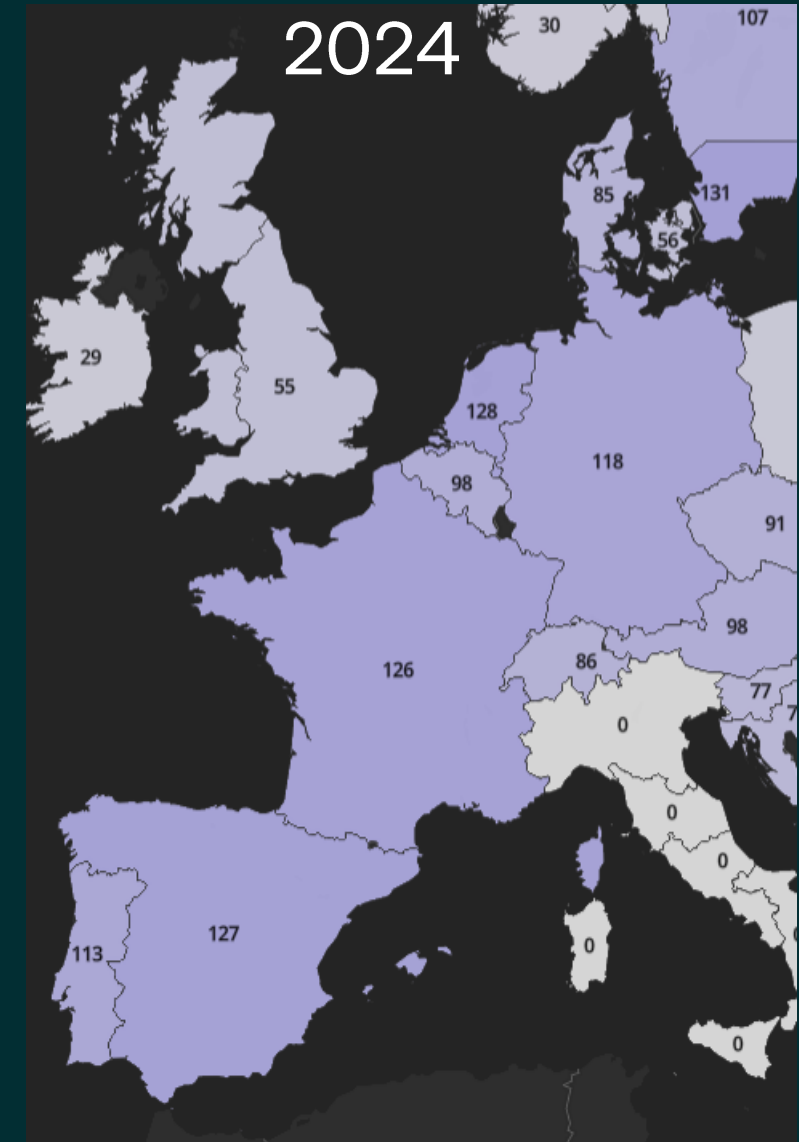
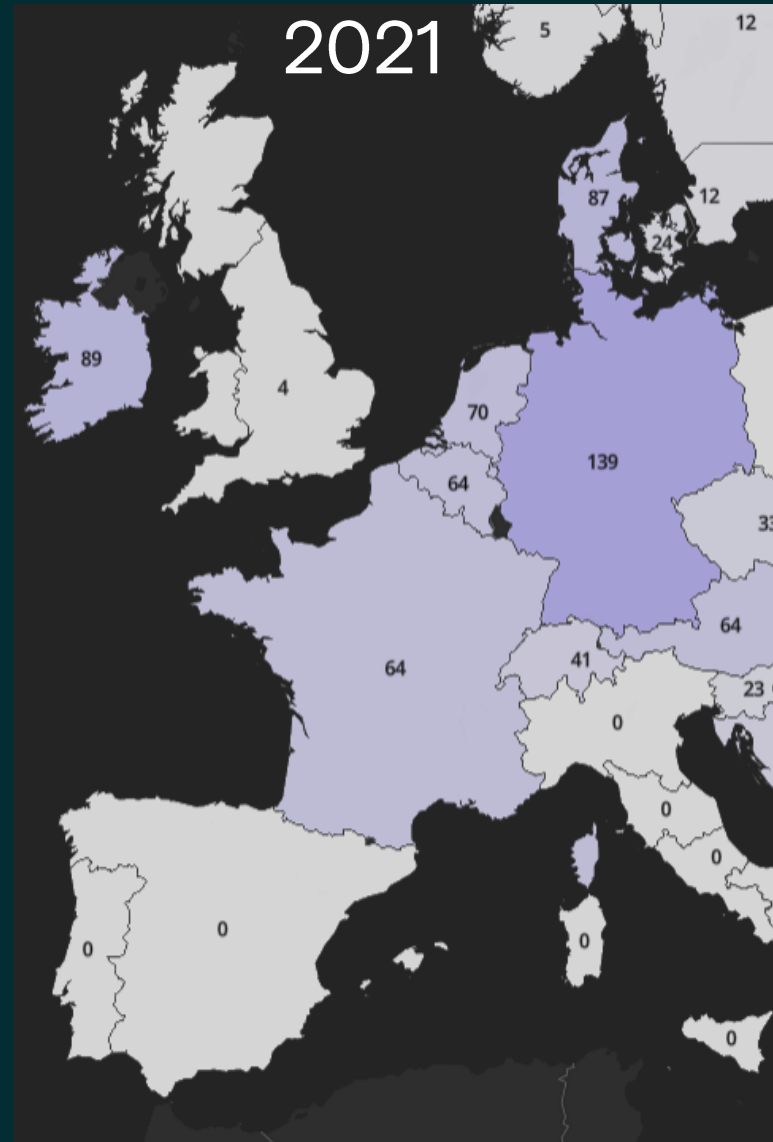
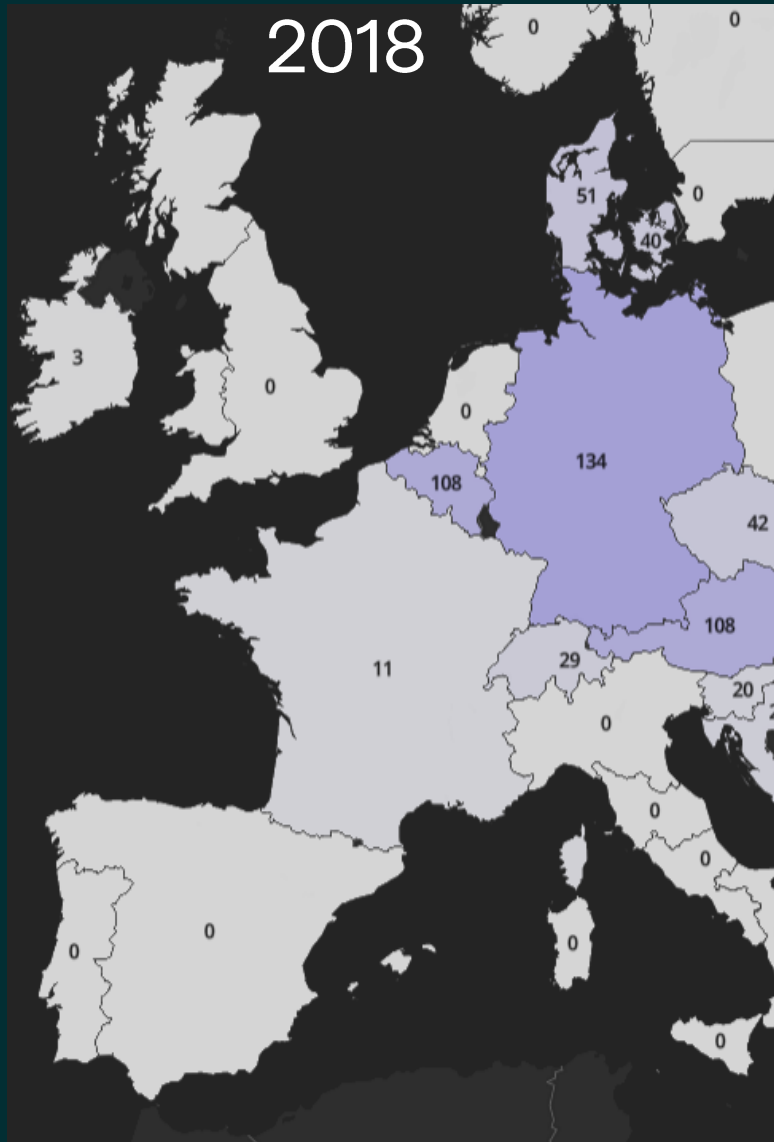


# Negativ Day-Ahead Hours





# Negativ Day-Ahead Hours



# Sat. 23rd of March





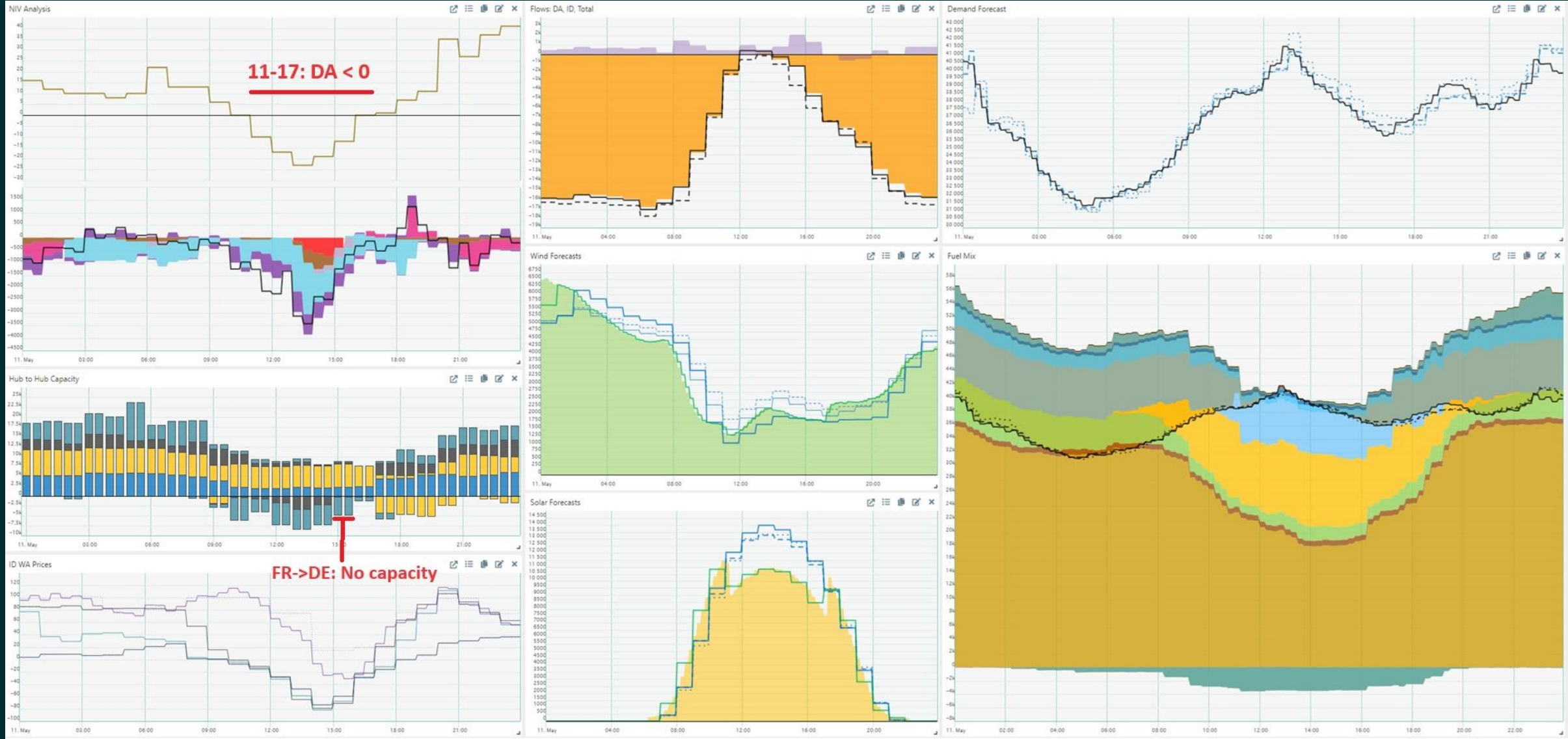
# Sat. 23rd of March





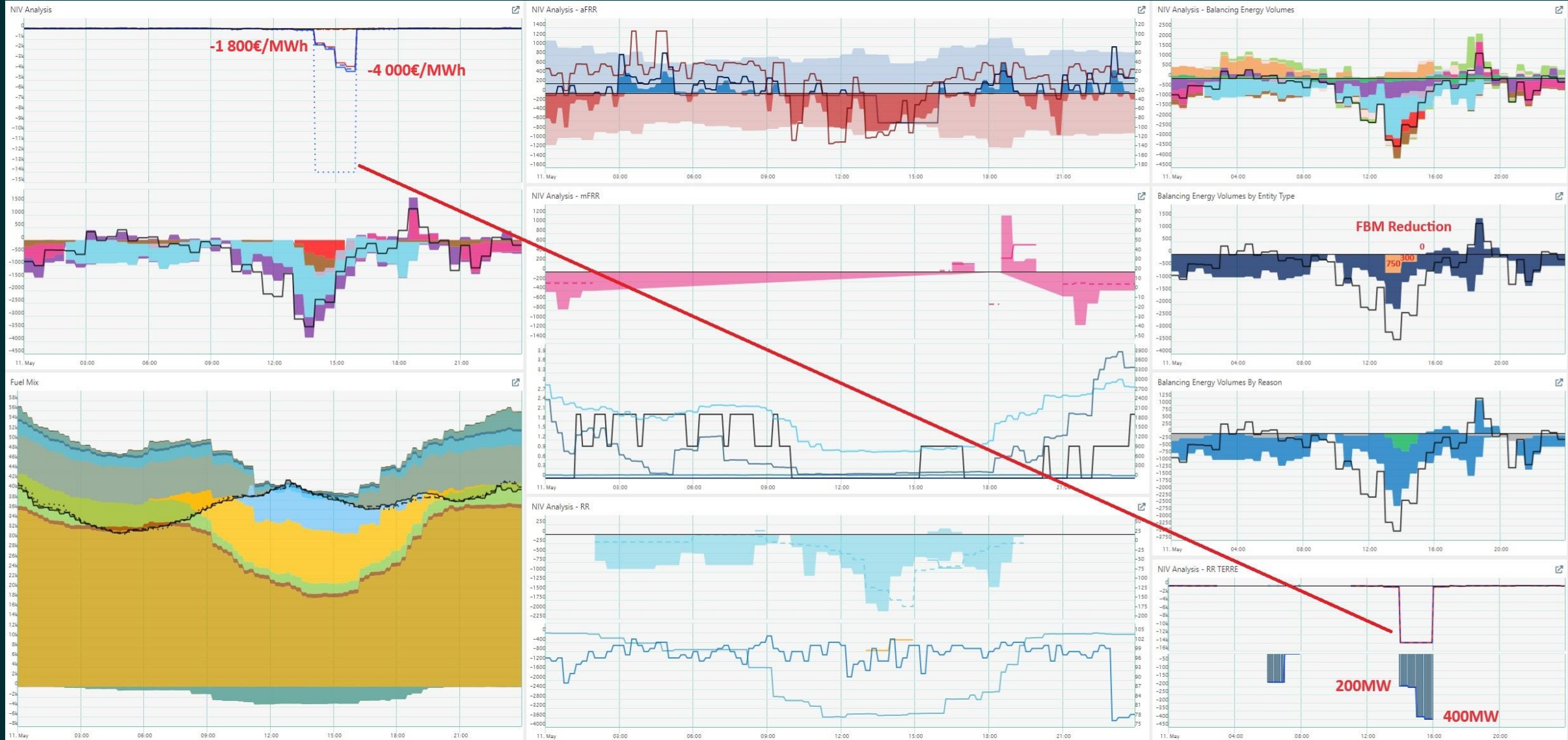


# Sat. 11th of May





# Sat. 11th of May







# Sat. 11th of May



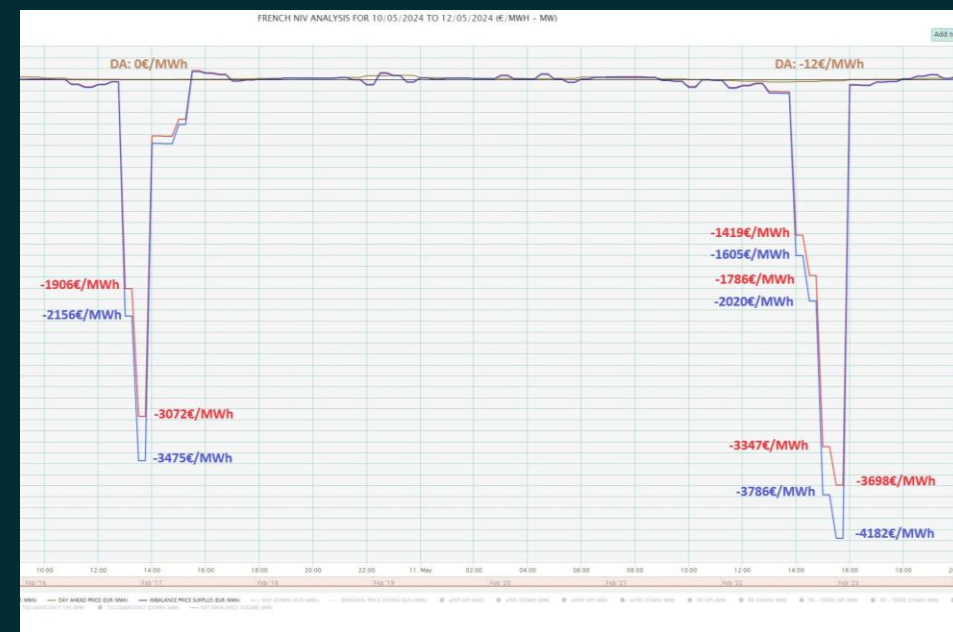
# Price Impact on 10th & 11th of May

## 10th

- Day Ahead Prices  $\geq 0$
- -2 815€/MWh an hour or 0,32€/MWh a year
- 10% or error  $\rightarrow$  0,03€ of balancing costs
- 1 hour = 0,011% of a year

## 11th

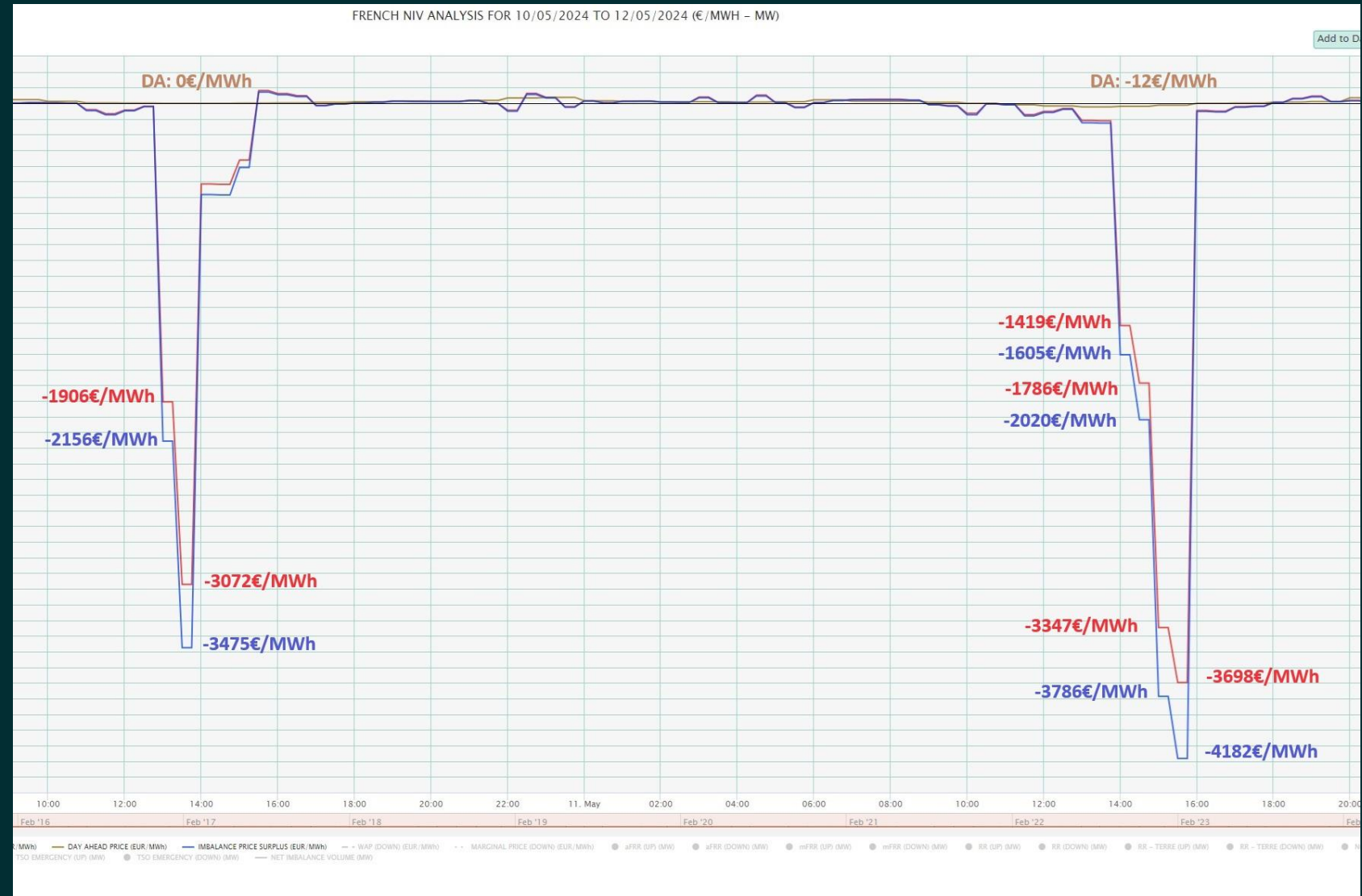
- Day Ahead Prices  $< 0$
- -5 796€/MWh an hour or 0,66€/MWh a year
- 10% or error  $\rightarrow$  0,066€ of balancing costs
- 1 hour = 0,011% of a year



# Price Impact on 10th & 11th of May

## Gain

- 10th: 2 489€/MWh
- 11th: 5 126€/MWh



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# Wrap Up

- Lower residual load  
Demand – Nuke – Wind – Solar – Hydro
- Exports
- Negative Prices + Imbalance Price Volatility  
→ Lower Income for Renewables

## Bonus

- France lower than Germany





Thank You for your attention

Q&A

French Energy Day  
Clement Bouilloux

**MONTEL**

# MONTEL GROUP

– at the forefront of energy markets