

# *France's challenges on the road to a climate-neutral electricity system*

 MINISTÈRE  
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7<sup>e</sup> Forum franco-allemand de l'énergie  
Perspectives d'évolution pour le design du marché d'électricité en Europe

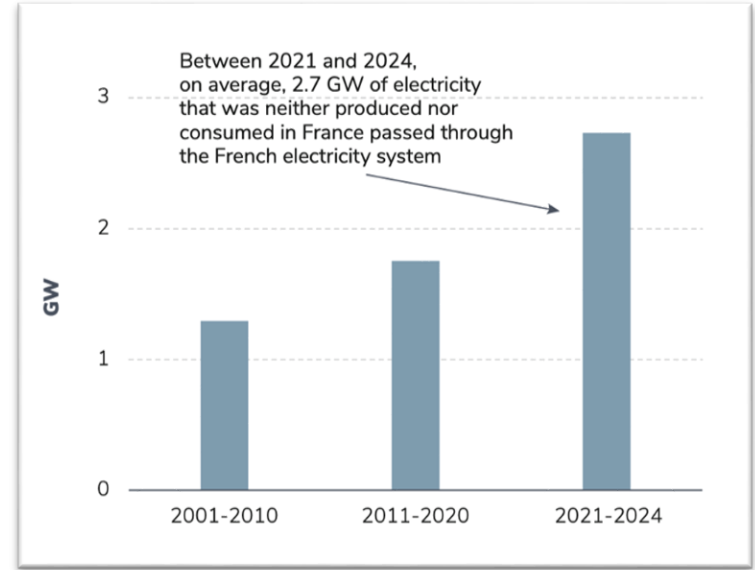
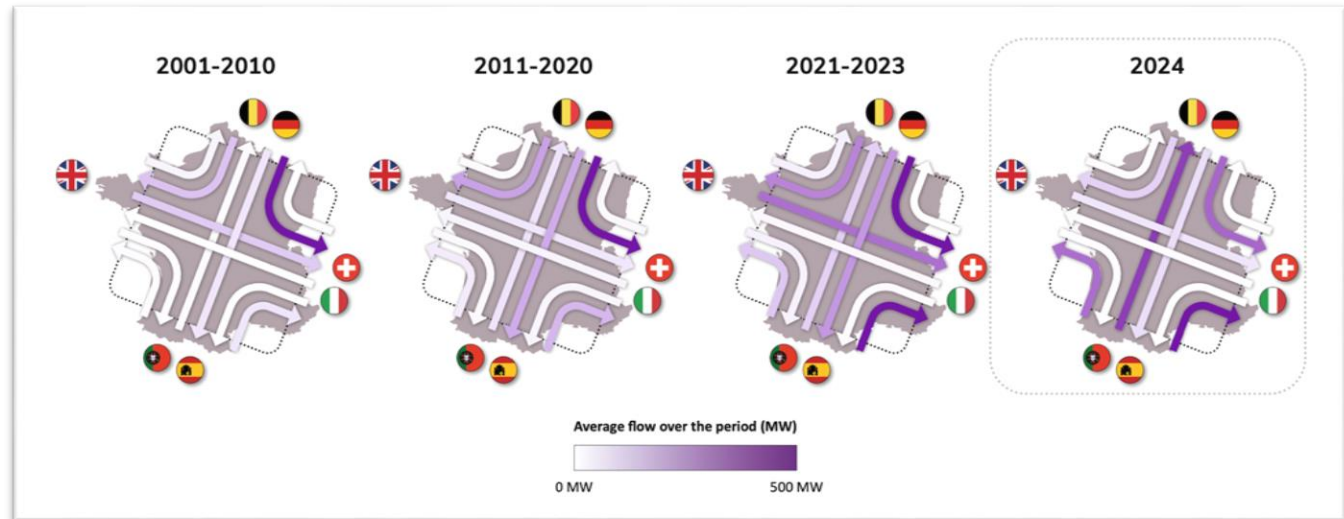
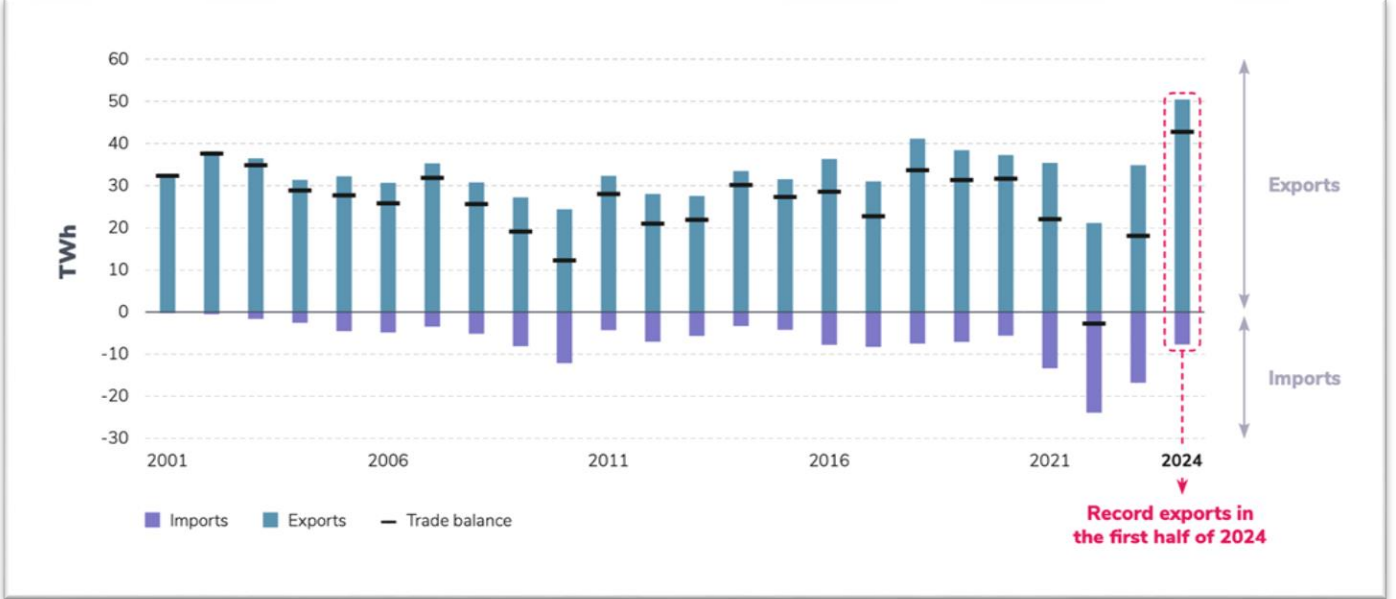
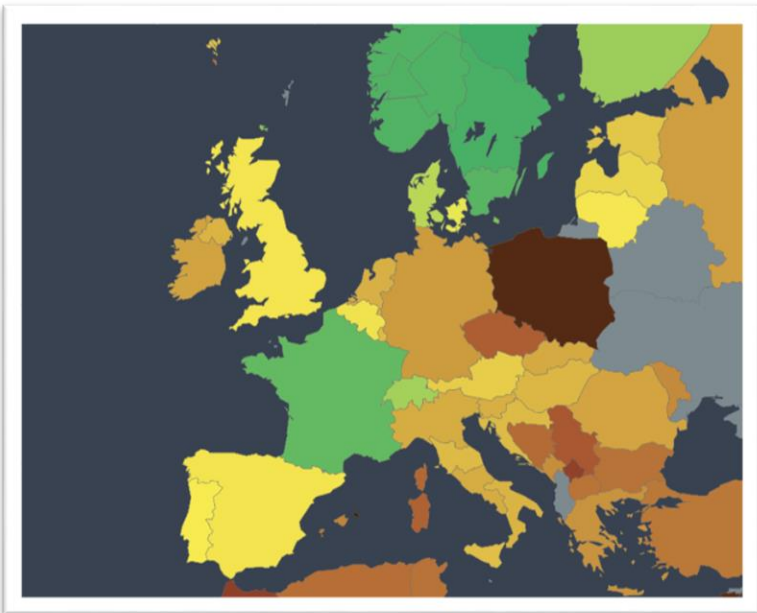
22 janvier 2025

Conférence en ligne

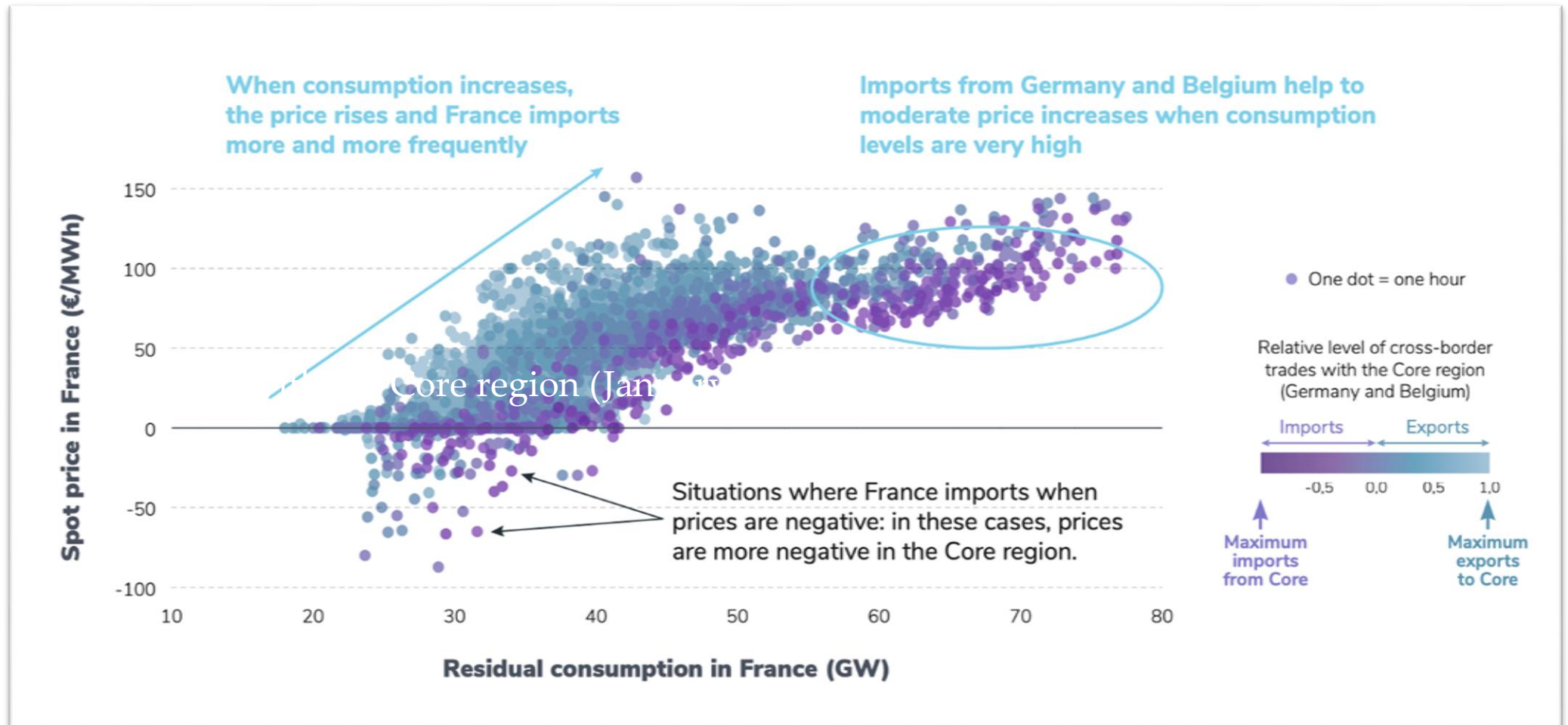
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22 January 2025

# The French electricity system is a low-carbon crossroads within Europe, and has returned to its highest level of production in 5 years

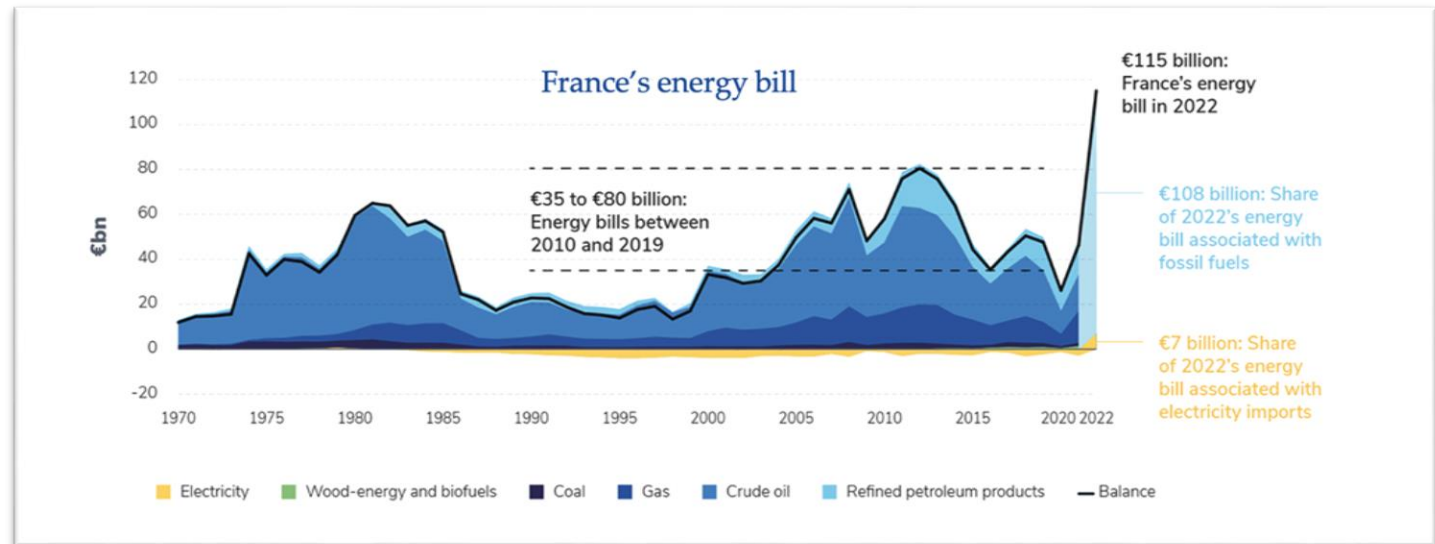
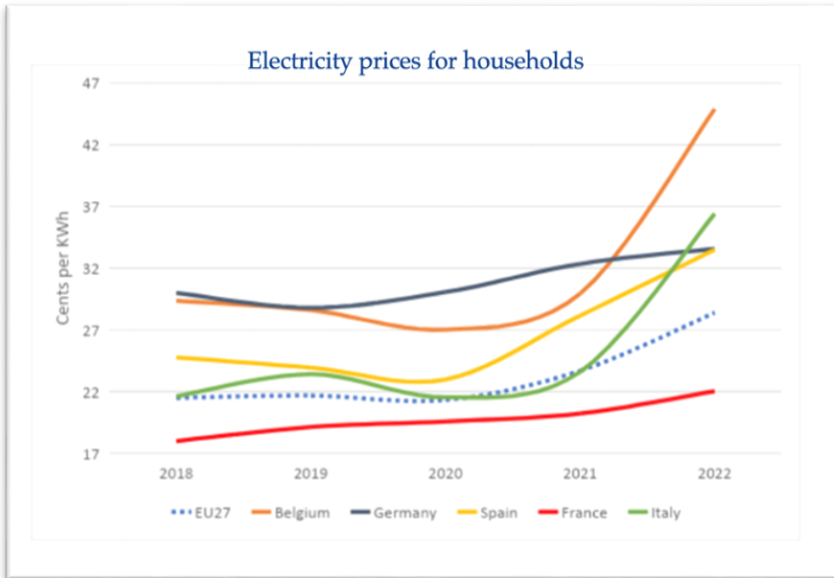
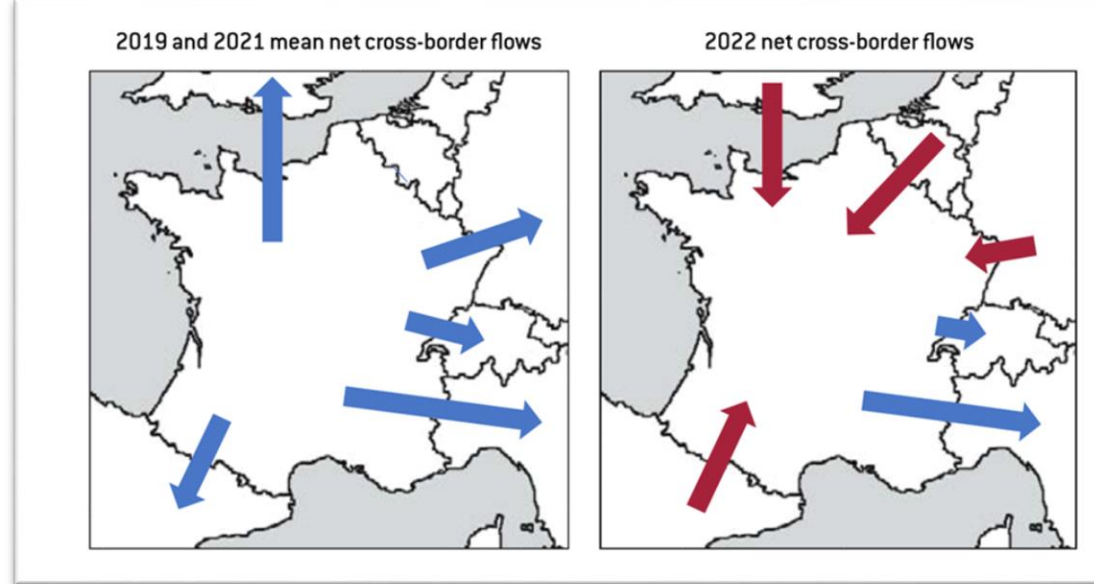
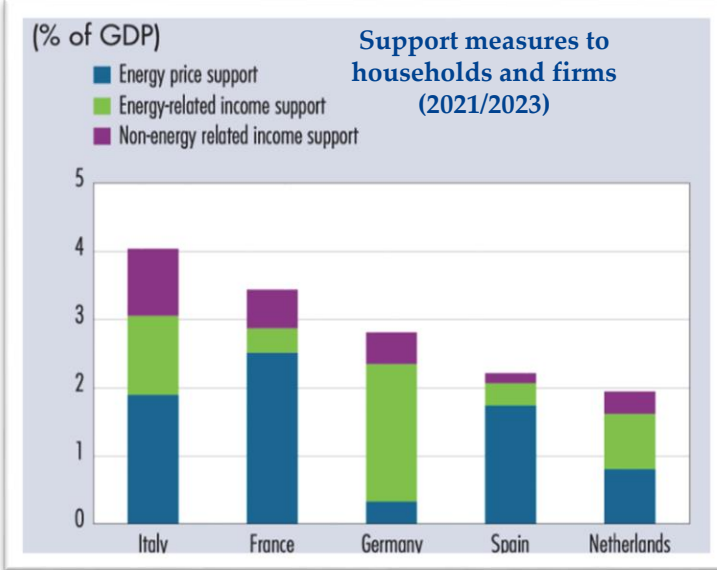


NB: France derives significant benefits from its interconnections, even more so during periods of negative prices.

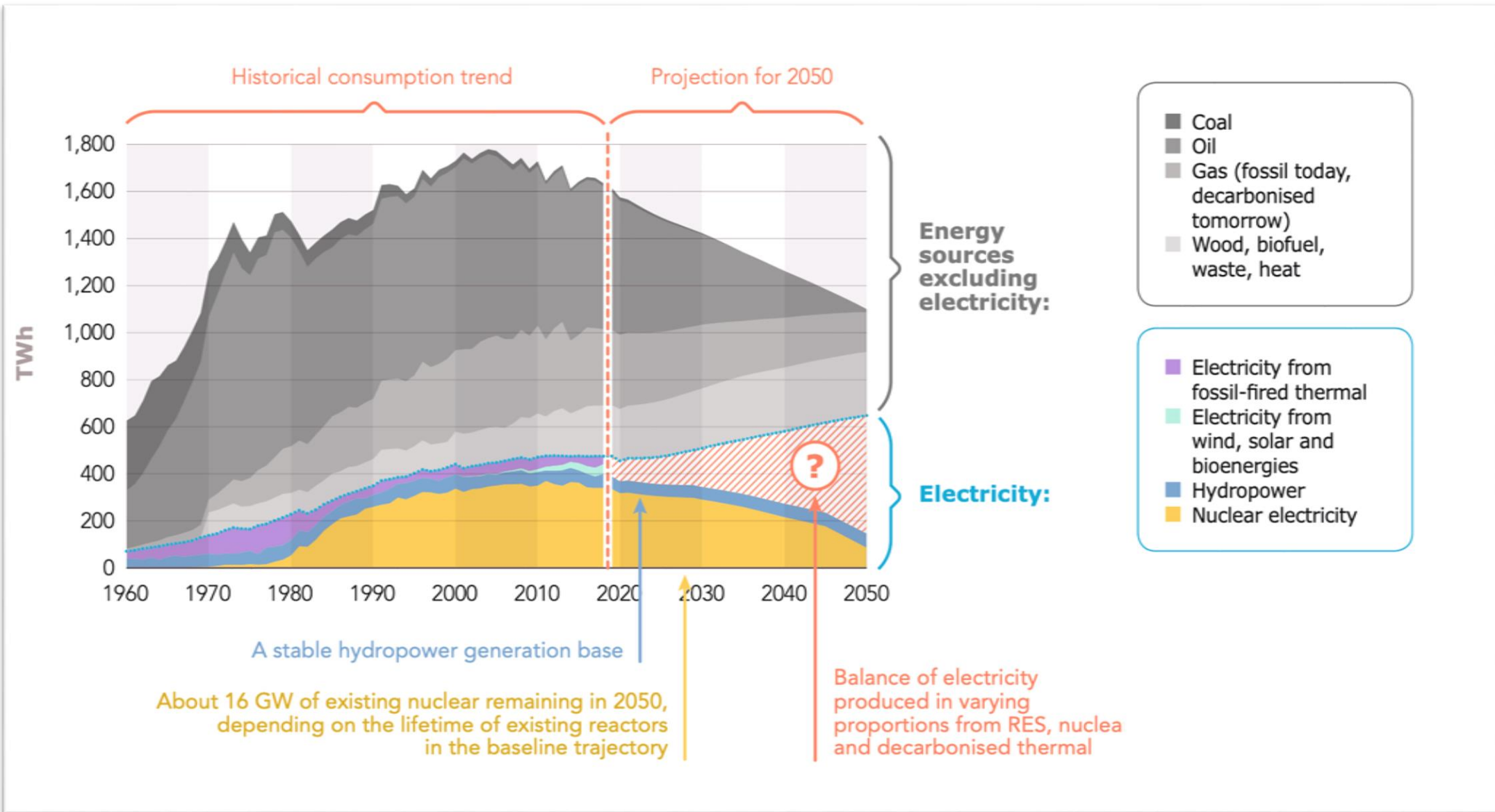


Analysis of the influence on the French spot price of residual consumption and the level of cross-border trades with the Core region (January-June 2024)

# However, these specific features have not made France immune to the energy shock of 2022

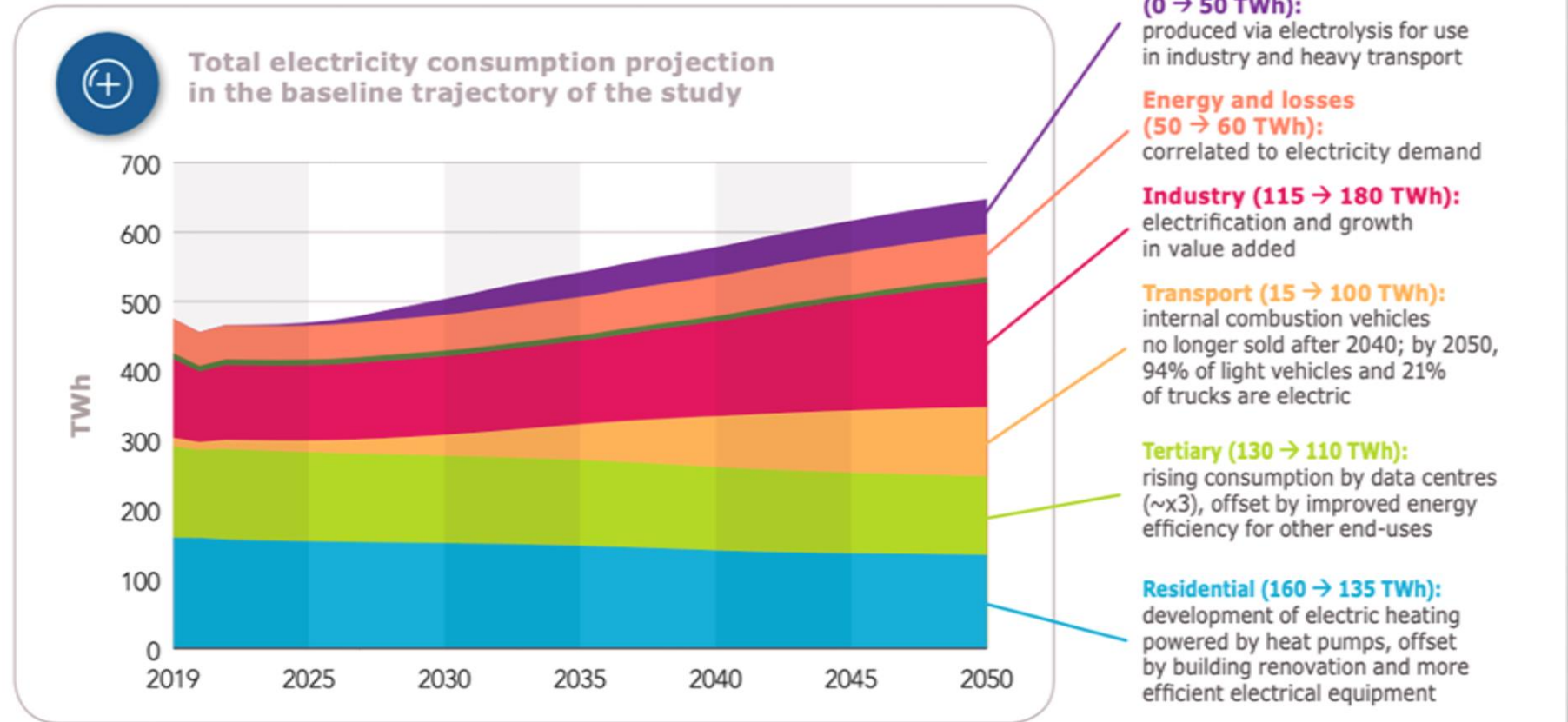


# The aim is to bring about an energy transition through massive transfers of use to electricity (1/3)

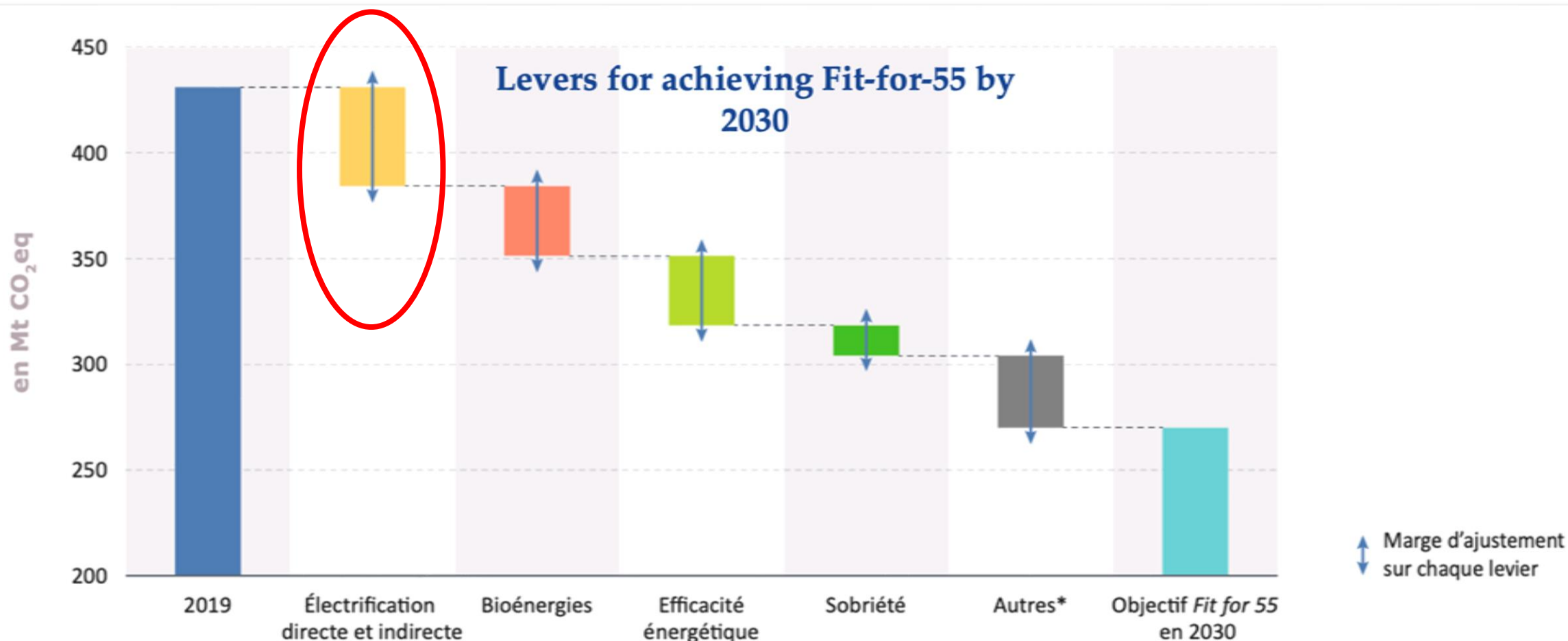


# The aim is to bring about an energy transition through massive transfers of use to electricity (2/3)

Translation in total electricity consumption = final consumption + network losses + consumption in energy sector + consumption for hydrogen production

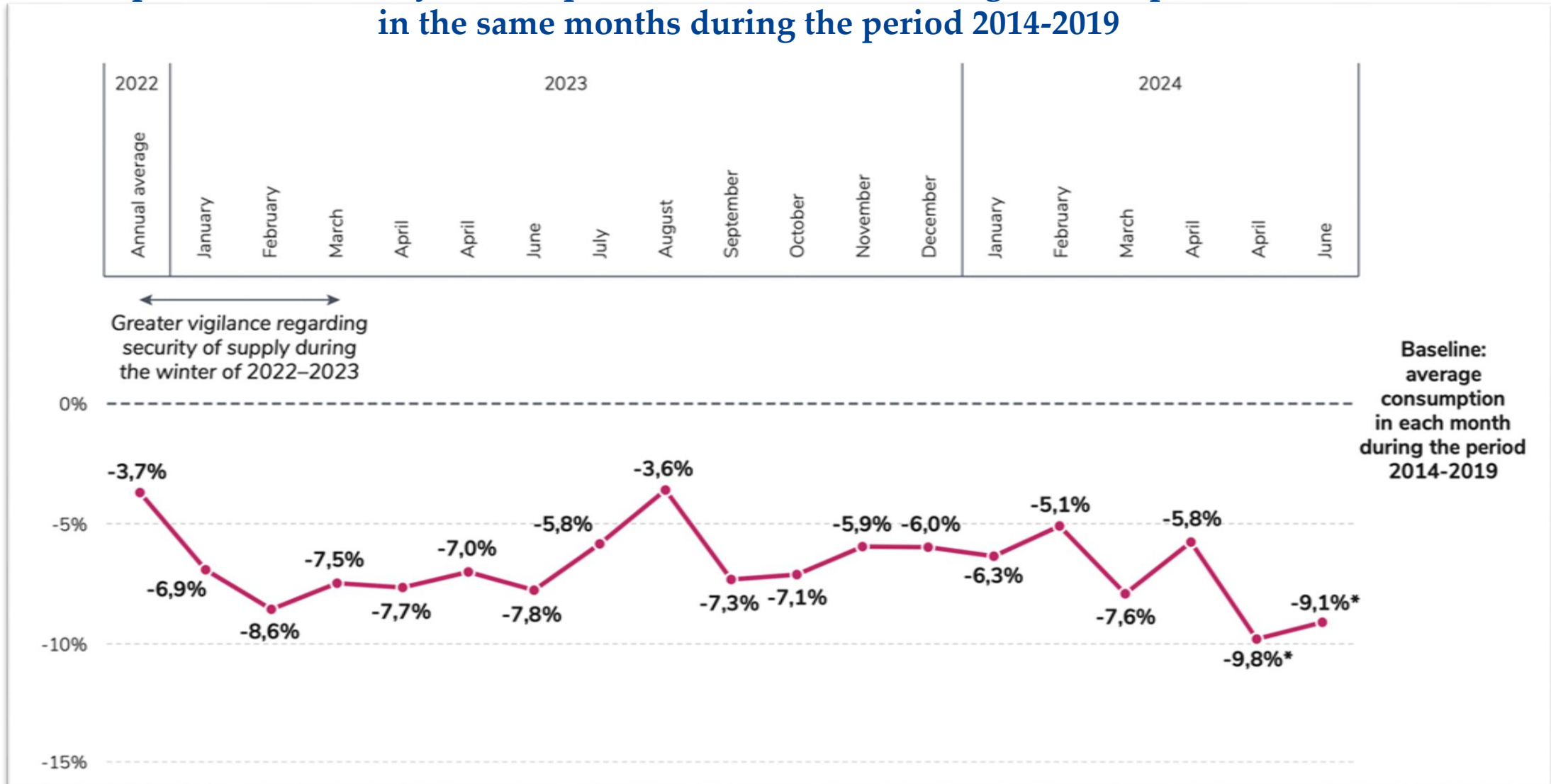


# The aim is to bring about an energy transition through massive transfers of use to electricity (3/3)



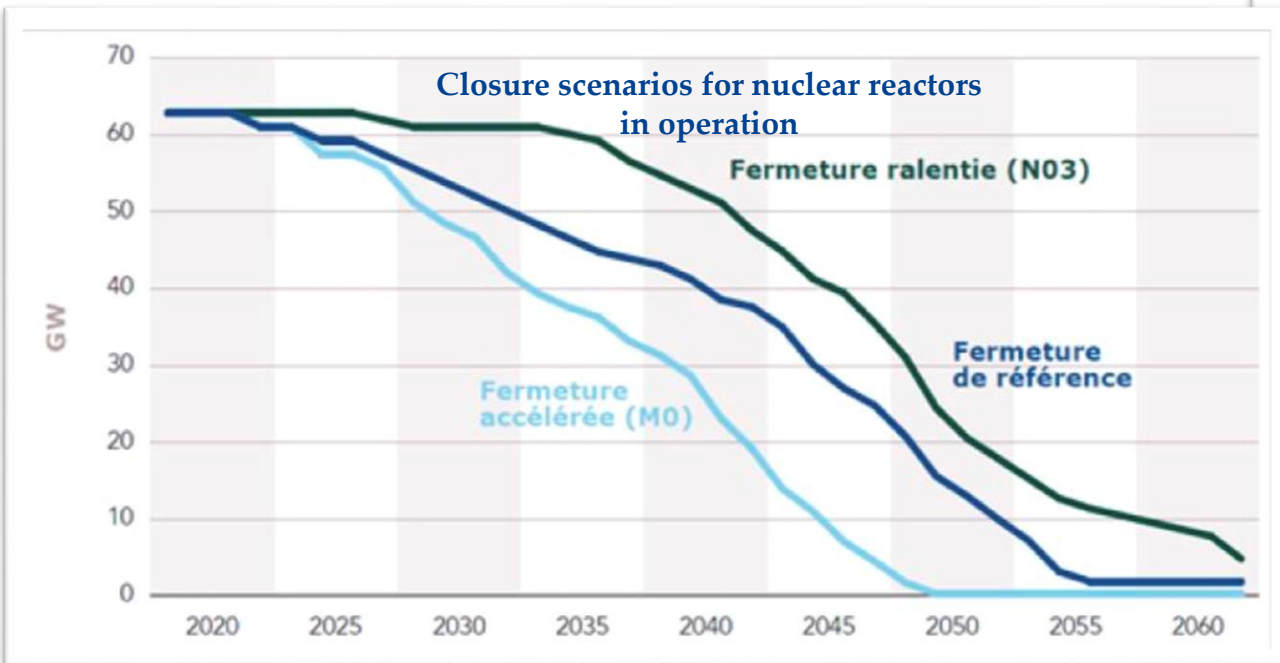
# But for the time being, the dynamics of demand do not reflect these transfers of use to electricity

## Gap between monthly consumption (2023-2024) and average consumption (2014-2019) in the same months during the period 2014-2019

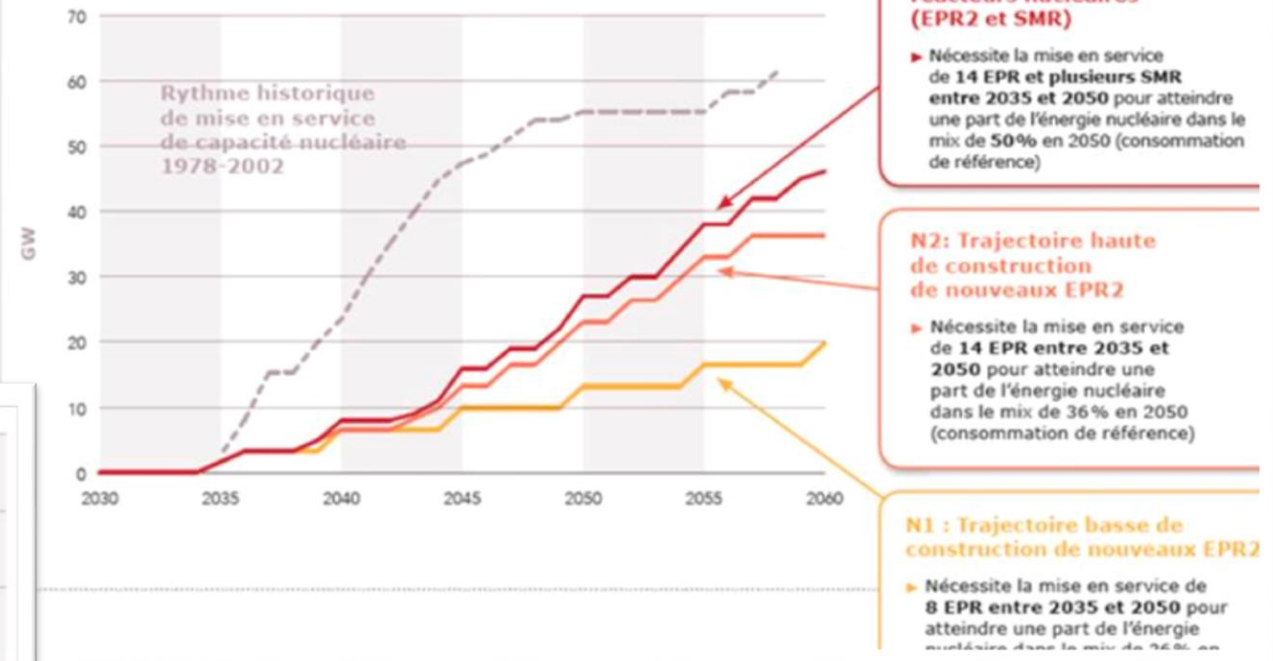




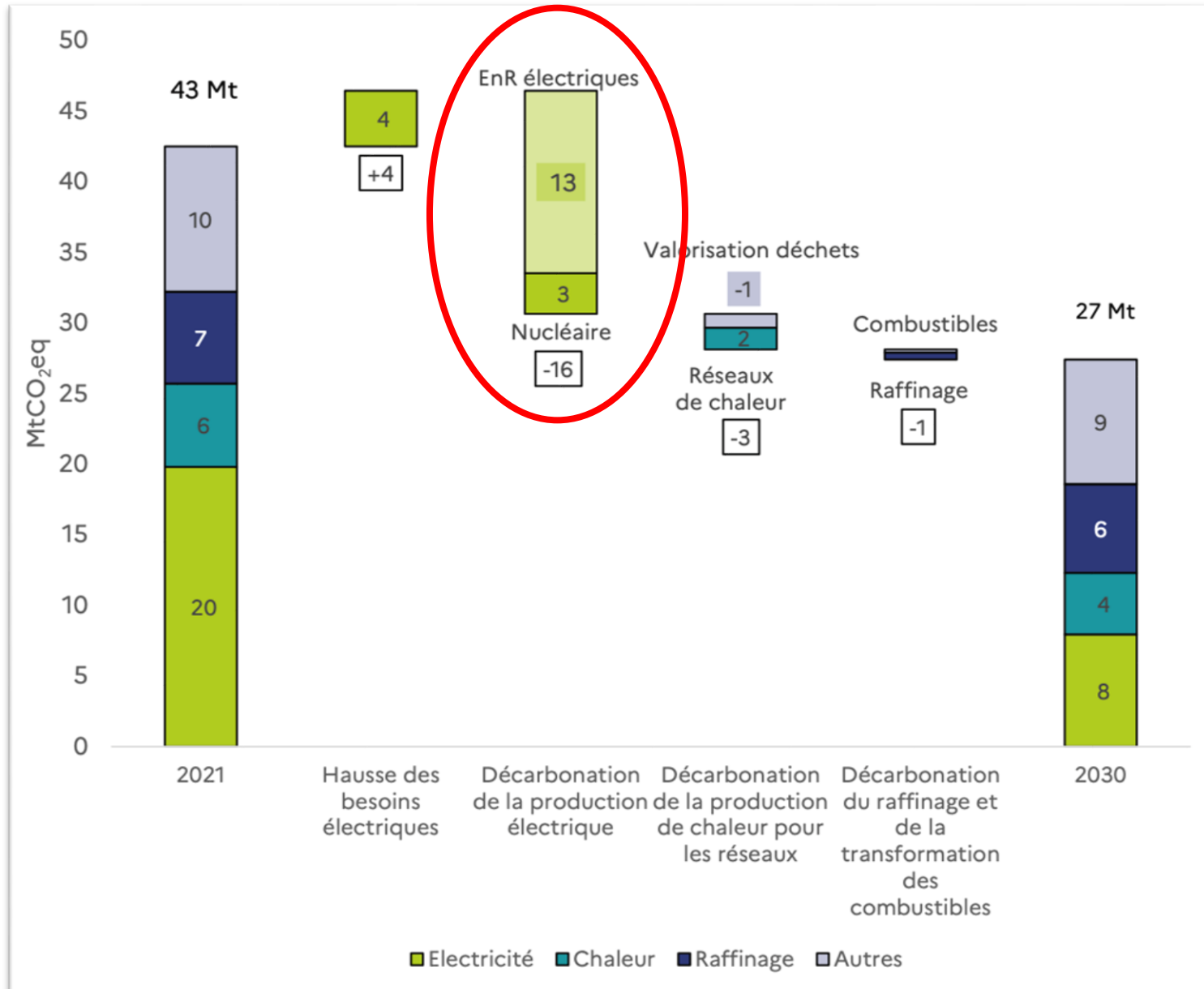
# The prospect depends on the ability to clarify the nuclear investment cycle...



### Scenarios for the deployment of new reactors

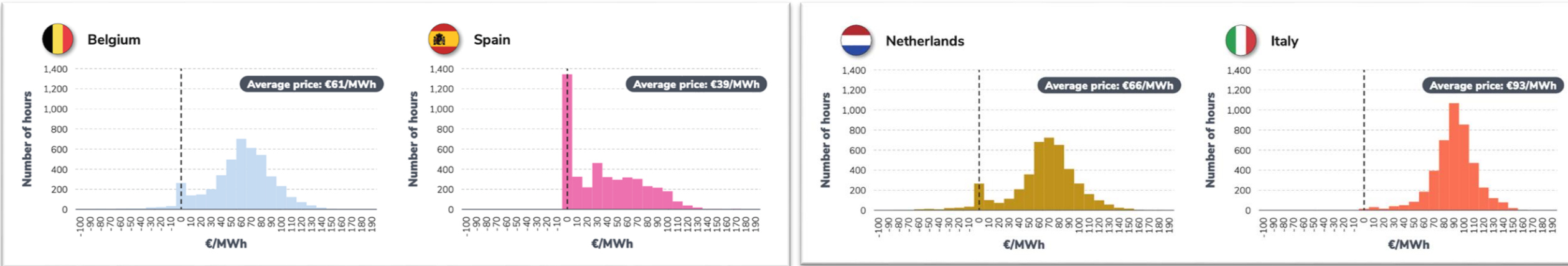


# ... and to accelerate investment in renewables without delay

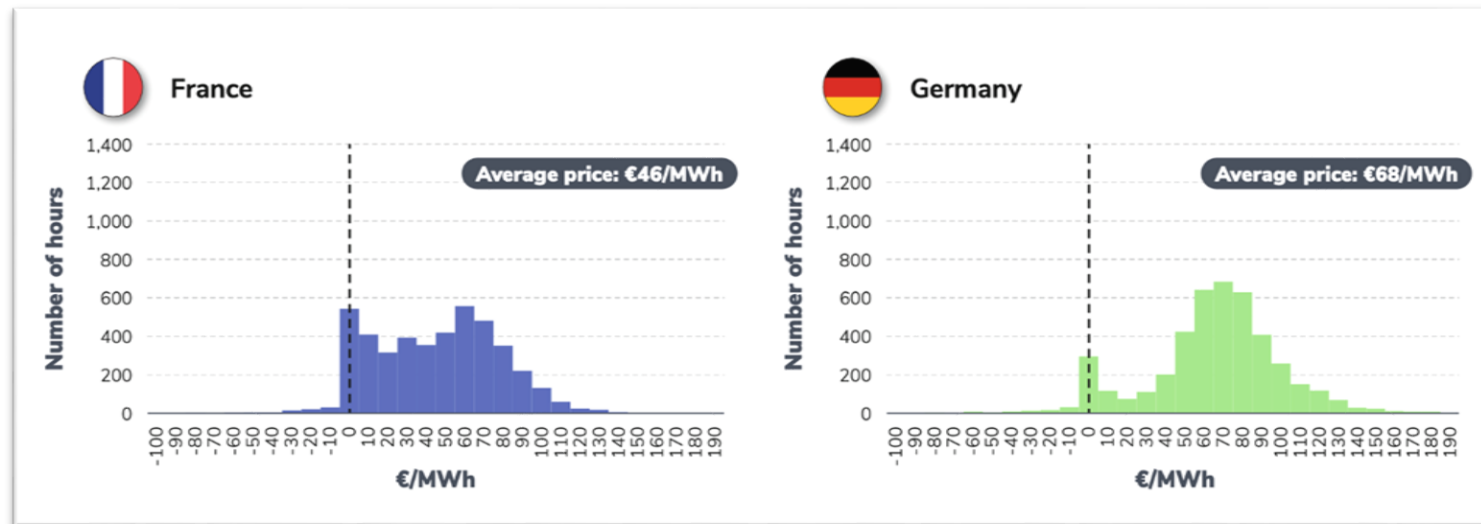


Source: RTE

Fundamentally, the issue is whether we will be able to cope with higher electricity prices in the future (and reduce the differential with our neighbours)...



### Breakdown of spot price (1st half 2024)



... which involves, in particular, completing the definition of the post-Arenh framework

