

#### Europe's Power Market Outlook

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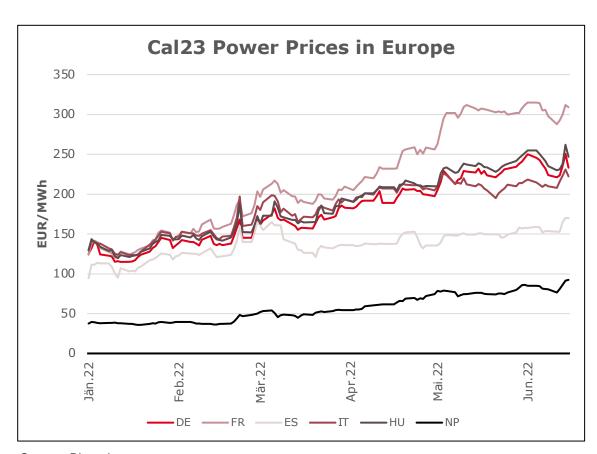
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## Strong increase of spot and forward power prices since start of 2022





- Very dry conditions in the Alps and in Spain
- Record-low power generation of French nuclear fleet
- Already tight gas and coal markets tightened further by measures resulting from the Ukraine war.
- Risk premium built due to risks on supply from Ukraine war

Source: Bloomberg



#### A long list of reactions to the political tensions from both sides...

Generally: Sanctions of finance providers, shipping insurances, technology exports

Preparation of emergency measures

Strong increase of volatility and decline of market liquidity

Hard coal: Ban of imports to EU (from 10.08.22), UK and Japan (later in 2022)

Gas: Stop of Nord Stream 2 approval process

Gas storage regulation (Minimum levels & certification requirements)

Announcement to not renew expiring gas offtake contracts

EU Commission proposes «RePowerEU»: Energy independence from Russia by 2027

Delivery stops to BG, PL, FI, NL due to EUR/RUB payment dispute

Russia sanctioned former EU subsidiaries, e.g. Yamal operator

Petroleum: EU bans all seaborne imports

Electricity: Ukraine synchronises grid with Continental European grid

Finland stops 1/3 of imports, and Russia stops remaining exports

Belgium extends lifetime of some nukes, other countries check for longer use of lignite

Spain/Portugal cap gas price for power generation for 12 months

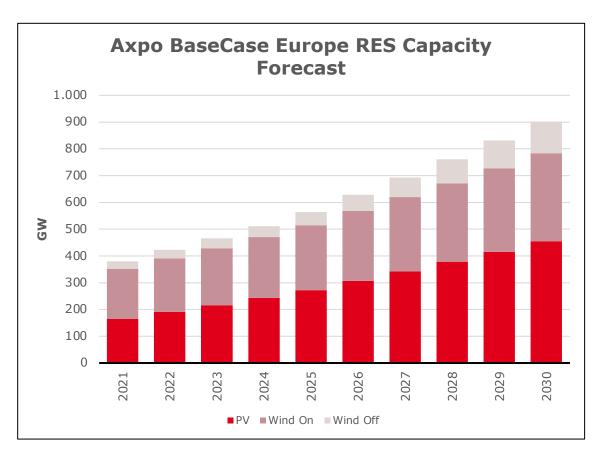


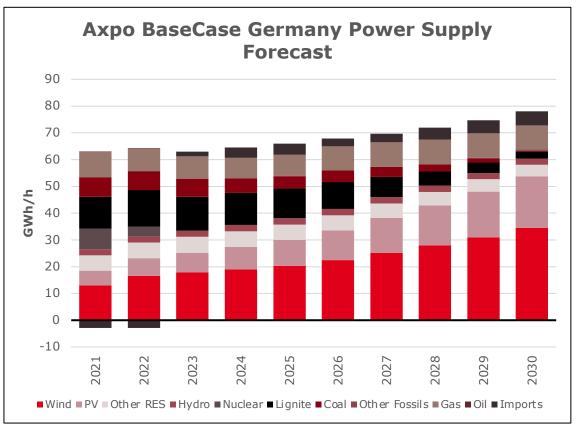
## ...changes the dynamics of Europe's power market outlook

> Ban of Russian coal and oil in 2022, and gradual reduction of gas imports until 2027 > Further increase of already ambitious EU targets on energy efficiency and renewable energy resources Petroleum: EU bans all seaborne imports ("RePowerEU")



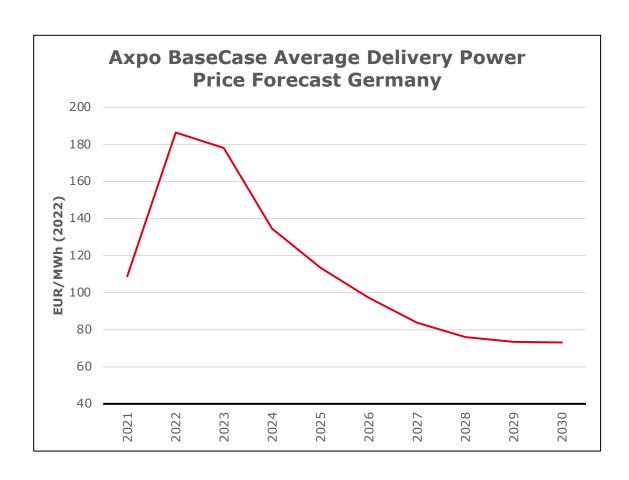
## Axpo BaseCase: Strong RES growth... but gas plants are still often needed







# Axpo BaseCase: Declining prices over time ...but risks around it are high



- Significantly more RES means more lowcost hours
- More LNG and less gas consumption in Europe should decrease costs of CCGTs
- However, prices also depend on
  - => the availability of gas supply (dependency on weather in Asia and other factors)
  - => the speed of RES expansion in Europe (dependency on supply chain, finances etc.)
  - => The sustainability of the current marginal costs driven market design.

#### Thank you!

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