# END OF THE ENERGY CRISIS? OUTLOOK FOR NEXT WINTER - POWER

No power without gas



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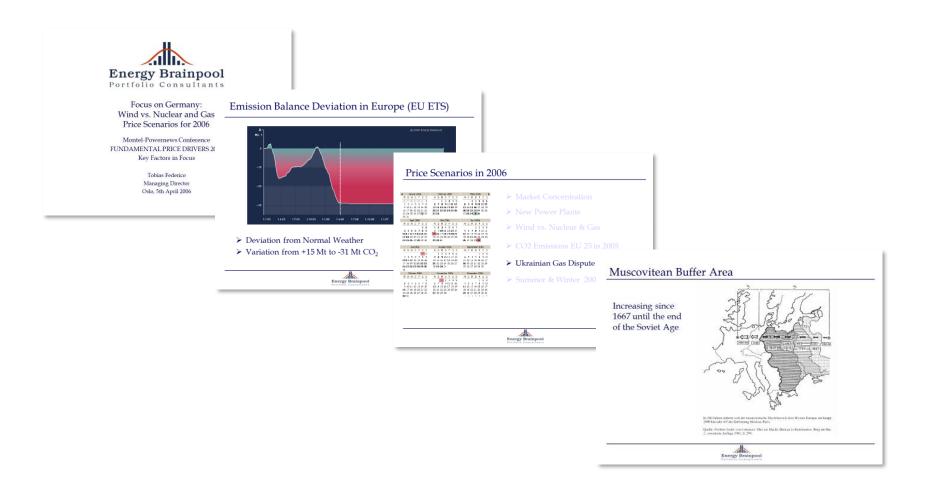
Montel German Energy Day

19th of April 2023

Düsseldorf



## ONCE UPON A TIME....



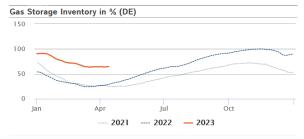
## DO NOT FORGET!

#### Capacity

- Currently Germany is not missing production capacity
- Due to the coal phase out, coal power plants were reserve capacity
- In the winter 2022/23 to biggest fear was missing fuel not secured capacity (at least in Germany)
- Germany has not capacity shortage it had an expected fuel shortage in the last winter
- Therefore shutting down the last nukes is not a big deal (beside the political discussions)

#### Fuel

- Germany needed to replace its Russian gas deliveries and ...
- ... to fill up the gas storage in the winter 2022/23.
- This process is still ongoing, but
  - Gas storage is at 65 % level



Building up LNG capacities

Source: Montel Online



## WINTER IS COMING AND WE ARE PREPARED

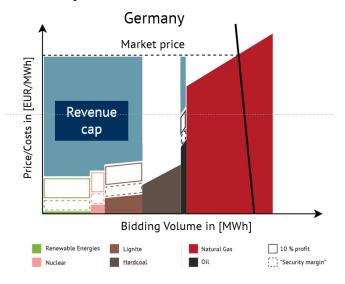


Source: HBO

### THERE ARE A FEW THREATS

#### Politics...

 Revenue cap in place gives high insecurity in the market



- Good news: Power prices are so low, that the political pressure is gone
- Bad news: CfDs might come

### ...and politics

- Understanding market design:
  - Not speaking about power market design and the "Merit Order model"
  - The different market behaviour of a global LNG market compared to the pipeline gas business
  - "You can only play the LNG market correctly in case you can handle all the different overcapacities"

Source: Montel Online



## WITH THE NUKES GONE IN GERMANY, WEATHER DEPENDED VOLATILITY WILL INCREASE

#### Our answer: calculating fundamental swarm scenarios

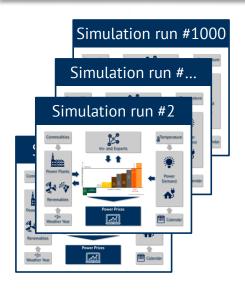
Variation of volatile model parameters

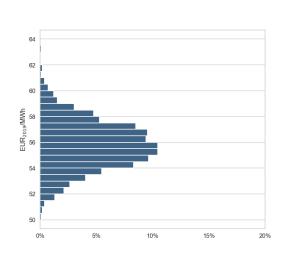
Fundamental swarm with n > 1000 scenario runs

Future distributions as results







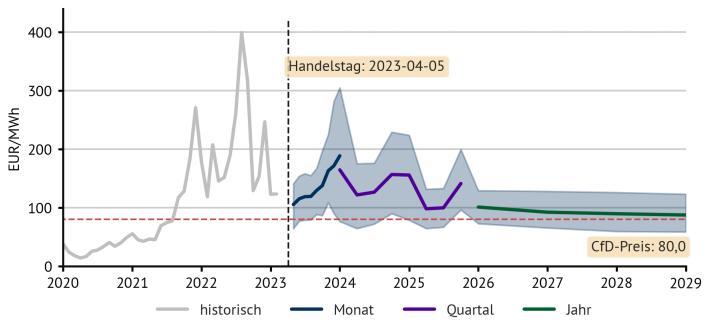


Source: Energy Brainpool



## DO NOT UNDERESTIMATE THE WEATHER RISK IN THE UPCOMING YEARS

- Output of 1.000 scenario runs for the capture rate for PV in Germany
- Based on the PFC from the 05.04.2023
- Compared to a assumed CfD price of 80 EUR/MWh



Source: Energy Brainpool



## Thank you very much!

What questions do you have?

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