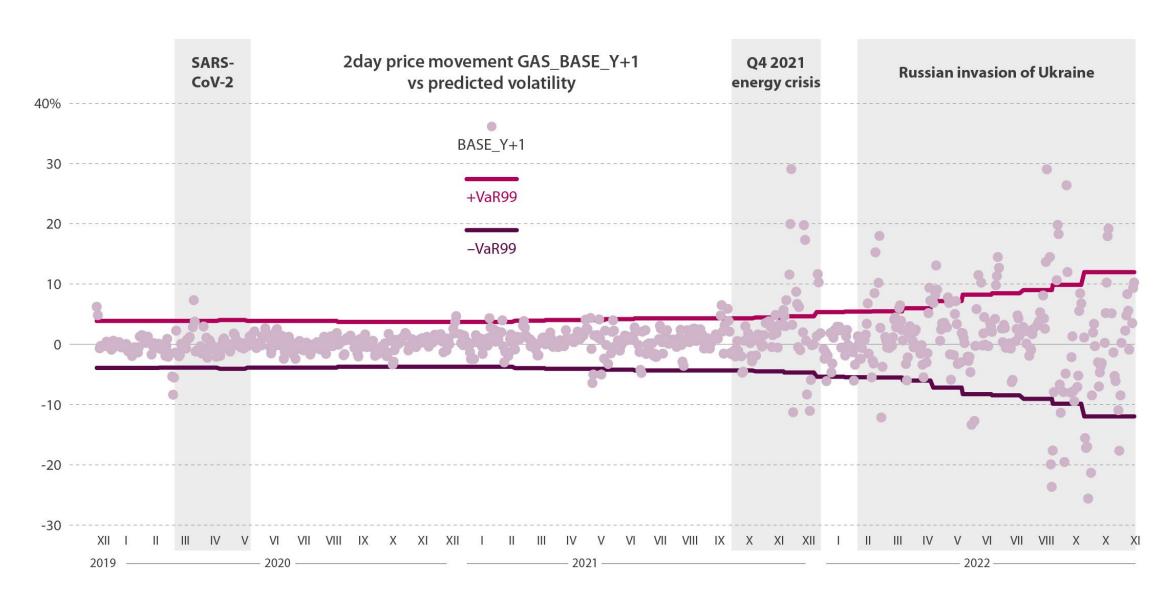


# MARKET UPDATE AND UPCOMING CHALL ENGES FOR THE POLISH MARKET

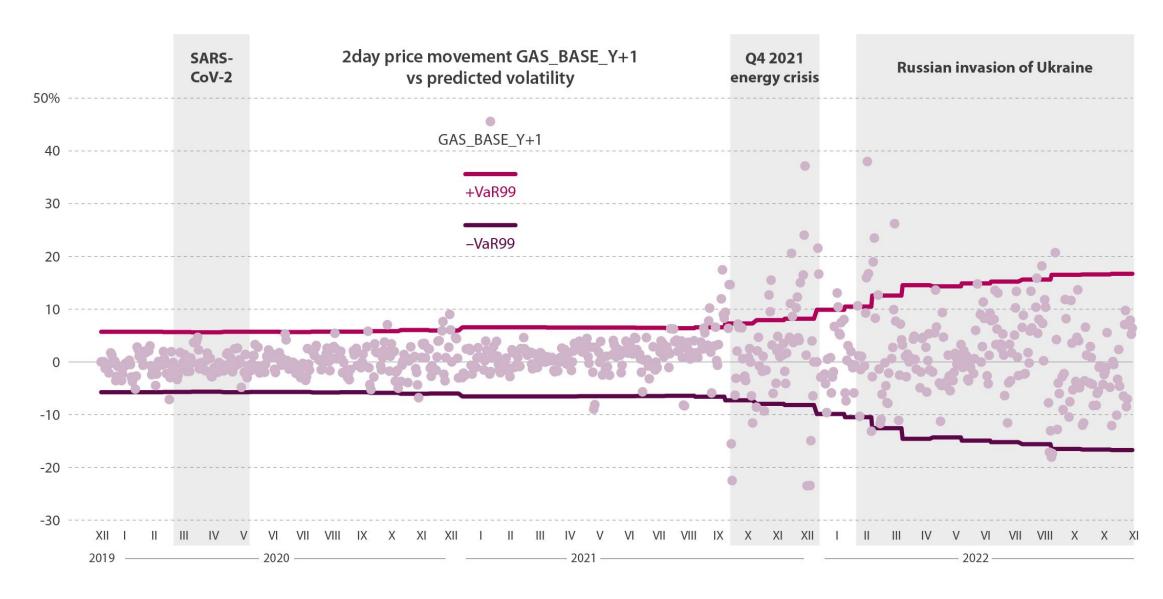
# Is it still black swan season or is it already highly volatile market?





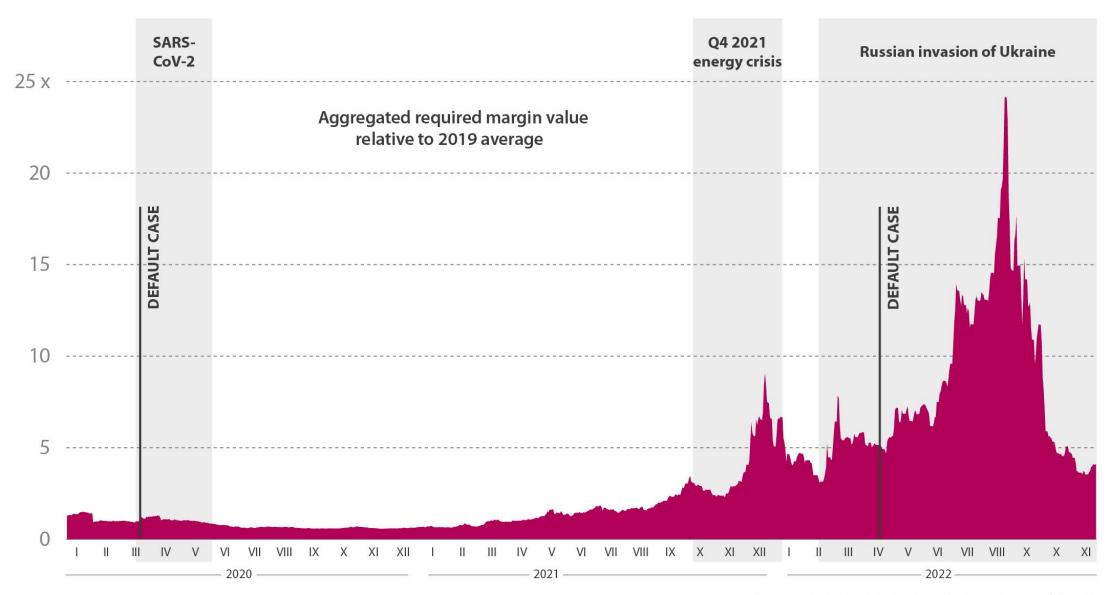
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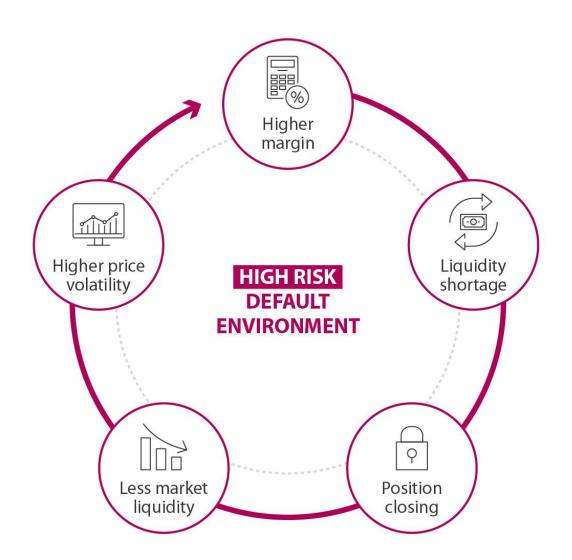


# **Impact of SARS-CoV-2 vs Russian invasion of Ukraine**





# **Liquidity** – Volatility spiral





# **Steps** taken by european decision-makers





### SARS-CoV-2

- → globaly applied financial aid packages
- minor energy companies targeted solutions



### **Russian invasion of Ukraine**

- → Extreme market movements turned into unprecendent liquidity squeeze (estimated aggregate value of 1 to 1,5 tn Euro)
- → Big names in big troubles:
  - Uniper, Centrica bank loans
  - ČEZ credit agreement with the government
  - Axpo, Fortum receiving government financial guarantees
  - German Federal Government credit lines (KfW) for energy companies
- → EFET position on need of liquidity support for energy markets
- → EACH papers and position letters
- → Joint paper on extending eligible non-cash collateral (EFET, EACH, Europex, Eurelectic, Eurogas):
  - EUA
  - Bank guarantees

# Polish approach to minimise liquidity shocks





IRGiT standard solutions such as Bank guarantees as well as EUA and PMOZE\_A as a soft landing in first phase of liquidity shock



Polish legislation – governement level act changes reflected in IRGiT rulebook

**2020**June September

amendments to the Polish law due to SARS-CoV-2:

intruduction of new collateral type: corporate guarantees and statement of submitting to enforcement following the procedure under Article 777 § 1 item 5 of the Act of 17 November 1964 – Code of Civil Procedure

→ available for companies with investment credit ratings

→ margin coverage up to 50%

2020 O— December

— NOW

### amendments the Polish law due to energy crisis and Russian invasion of Ukraine

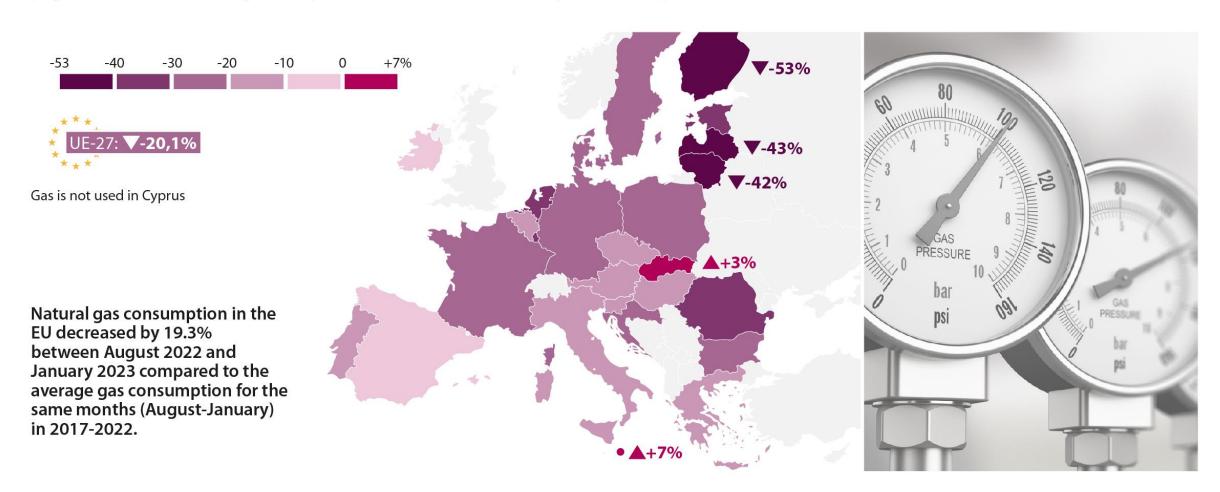
- re-introduction of solutions applied before as a reactin to energy crisis in Q4 2021 (Shield 1)
- → January 2021 (Shield 2):
  - scope extension also for companies obliged for trading
  - margin coverage increased up to 75%
- → September 2022:
  - amendment to the algorithms of other non-cash collateral recognition as a collateral
  - extention till end of 2026
- → October 2022 (Shield 3):
  - margin coverage increased up to 90%

# Decrease in gas consumption in Poland and the European Union



### CHANGE IN GAS CONSUMPTION IN THE EUROPEAN UNION COUNTRIES

(August–November 2022 vs. average consumption in the same months in 2017–2021, source: Eurostat)



# **Scale** of activity



### **VOLUME OF TRADES CLEARED**

## Volume of trades cleared in 2022

Electricity



**495** TWh

**Property Rights** 



**49** TWh

**Natural Gas** 



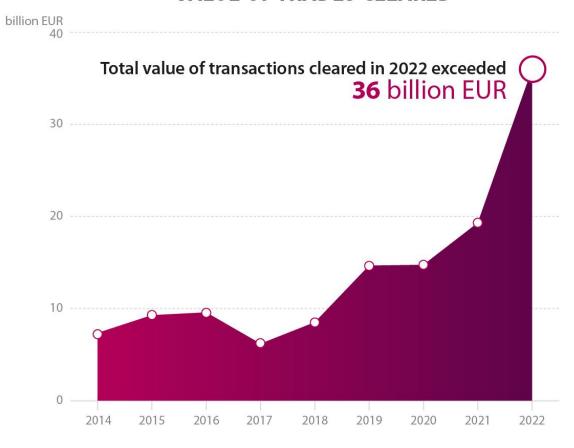
**500** TWh

**Agricultural Commodities** 



**4900** tons

### **VALUE OF TRADES CLEARED**



# TGE&IRGIT developes the "green" exchange offer



Due to the increased share of RES generation and auto-production, mainly prosumer, the current structure of forward products divided into 24-hour BASE products and 15-hour PEAK peak profile seems insufficient for the needs of the market in the near future.



Long-term products, especially during peak hours, do not fully meet the needs resulting from the generation of photovoltaic sources.



There is a strong demand to cover the price risk in the evening peak hours and the situation when it is necessary to dynamically cover the needs of the energy system by conventional sources.



The daily DAM indices currently published maintain their informative value, however, in the context of intensifying changes in the energy sector and the growing share of renewable sources, in particular wind and photovoltaic sources, solutions adapted to the new mix should be sought.



From this point of view, it is important to introduce solutions based on the determination of standard profiles by specifying the expected hourly production for an average day in a given month, on the basis of which it is possible to create a corresponding price index.



After consultation with the market participants, TGE consider to implement new long-term instruments dedicated to RES, which will be listed in parallel to the products present on the OTF platform, i.e. BASE, PEAK and OFFPEAK.



# TGE&IRGIT developes the "green" exchange offer



### **NEW PRODUCTS PLANNED TO BE IMPLEMENTED**



lowPeak - long-term instrument

• trading hours: 8-17.

highPeak - long-term instrument

• trading hours: 18-22.



Delivery period only on working days on a weekly, monthly and quarterly bases throughout the year.

### **NEW INDEXES**



**TGeONSHOREm** – averaging electricity prices using weights defining the hourly profile of electricity generation from onshore wind sources in Poland.



**TGePVm** – averaging electricity prices using weights defining the hourly profile of electricity generation from photovoltaic sources in Poland.



**TGeBASEm** – the arithmetic mean of the volume-weighted averages of the hourly DAM prices.



**TGeBASE\_Wavg** – the average monthly price on the DAM weighted by the trading volume.

### **EXPECTED BENEFITS FROM THE IMPLEMENTATION**

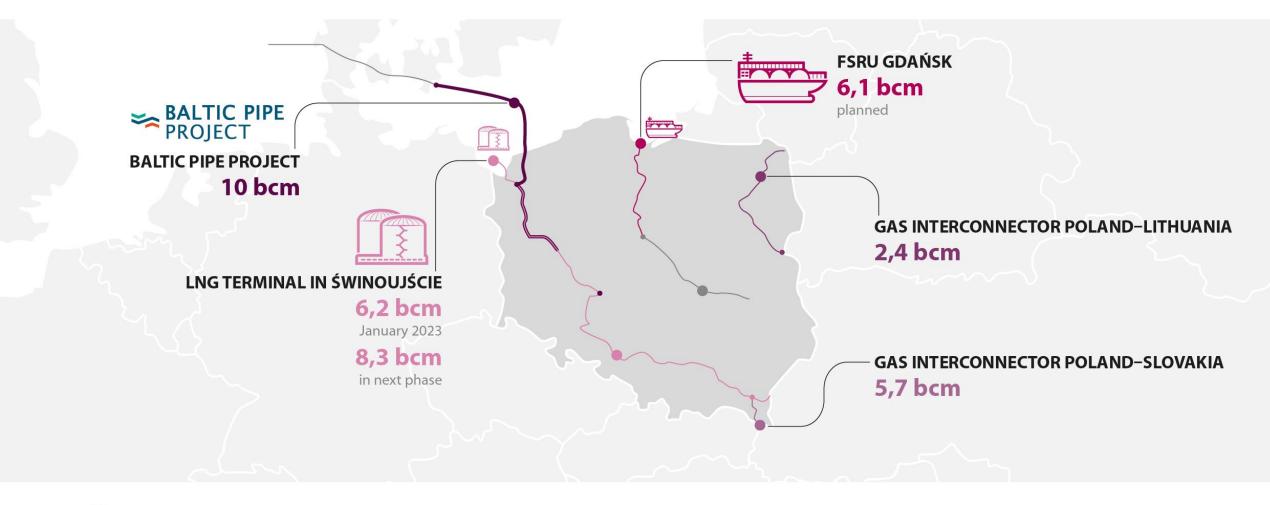
Improving the liquidity of the group of long-term products at peak time.s

Reducing the cost and risk of securing contract positions.

Peak hour products better suited to PV generation. More complete market information on the prices of the changing demand profile and the situation in the National Power System.

# New infrastructure – new opportunities on the gas market





» In 2022 supplies of Russian gas to Poland ended.





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