



Stories of the recent weeks

In October Russian flows have remained at 0% on the NS1 and Yamal, subdued flows via Ukraine were not suspended, while flows via TurkStream remained stable.

European gas prices fell to 4-month low in October amid mild weather, abundant supply and weak demand, TTF spot was even negative. Over 30 LNG ships were waiting around Spain, which represent 1/3 of EU LNG regas capacity.

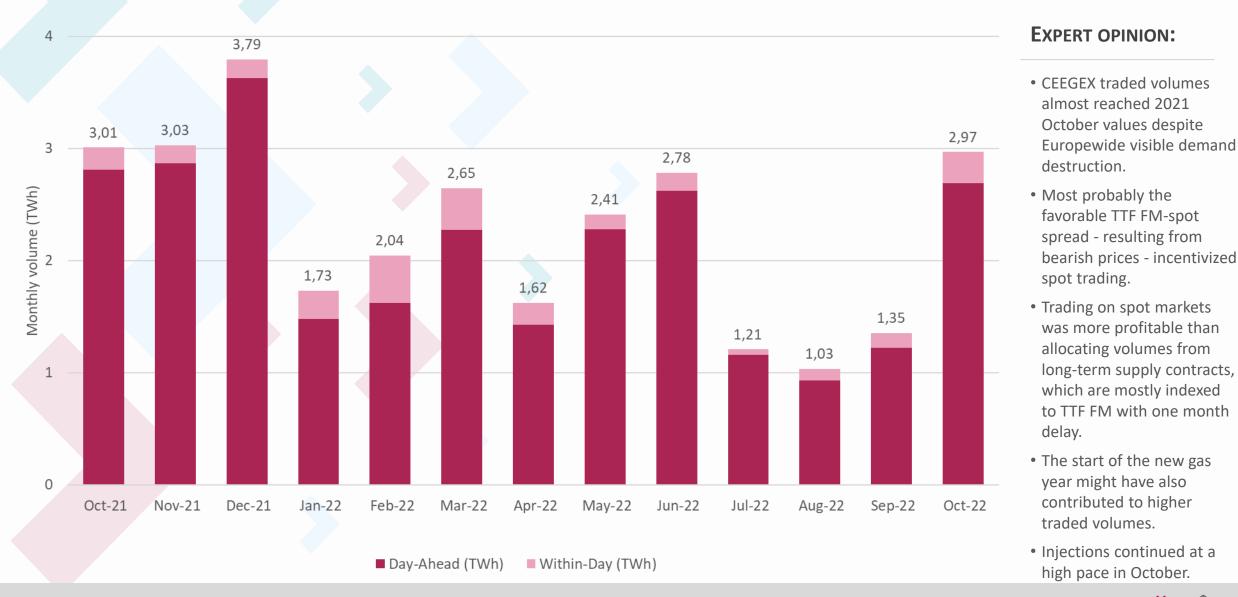
> EU energy ministers have expressed strong support for joint gas buying, but remain divided on possible gas price caps after a council meeting in Luxembourg on 26 Oct. Ministers supported the EC's proposal to ask ACER to develop an LNG price benchmark. **

Gazprom has allowed Hungary to temporarily defer payments for its gas imports. MVM Group announced the increase of storage capacity at Zsana and investigates the possibility of using the 800 mcm of cushion gas at Hajdúszoboszló.

> RS, AT and HU agreed to share gas reserves with each other if necessary. The TSOs of BG, RO, SK and HU aim to co-operate to transport more Azeri gas to Europe through their networks.



CEEGEX monthly traded volumes



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Regional scope DA markets

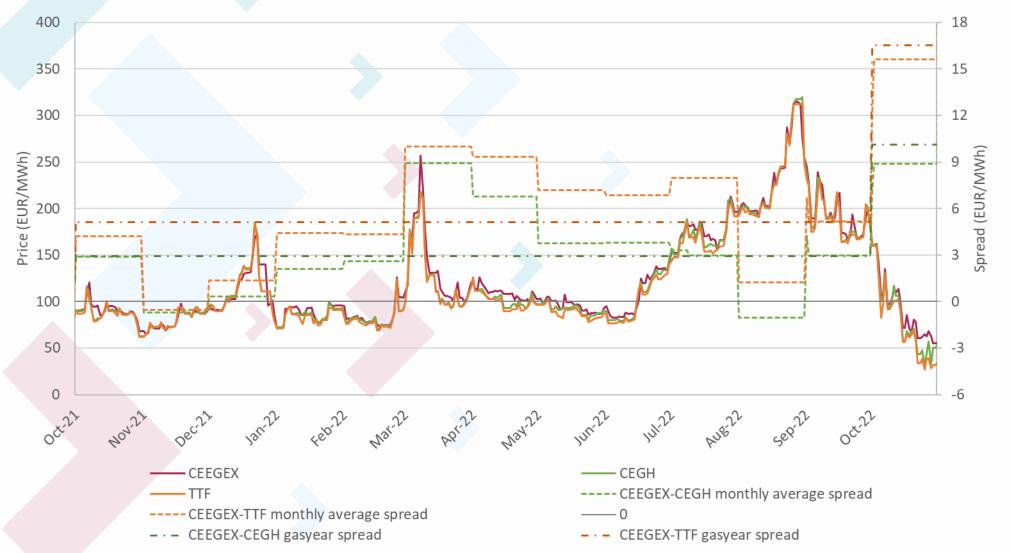


EXPERT OPINION:

- Similar increase in volumes was observable on other regional markets.
- CEGH reached highest traded volumes of the last 12 months.
- The increase in Austrian volumes might be in relation with changed direction of gas flows in October – from Italy to Austria.



Regional prices and spreads



EXPERT OPINION:

- In October the CX-CEGH and CX-TTF spreads significantly widened.
- Around half of current Russian flows arrives to Europe via Hungary, while NW Europe receives most of its gas as LNG. Russian flows are currently associated with higher risk and this premium might be reflected in CX prices.
- Hungary and Latvia lag behind other EU countries in terms of storage levels.
 Higher injection demand in Hungary might add support to CX prices.



Japanese candles – last 3 months



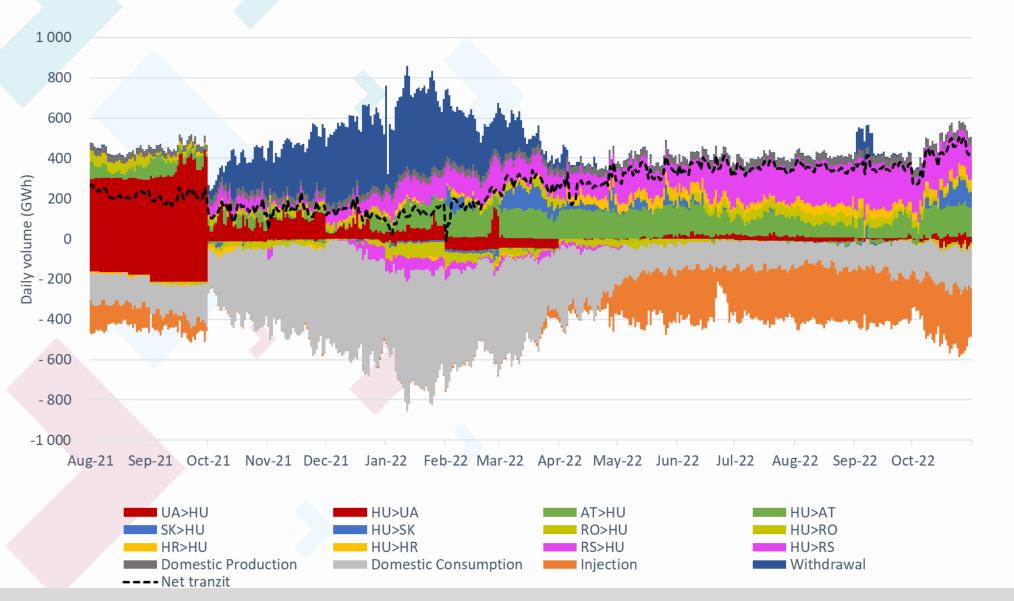
The EU energy market prices on 28 Oct 2022.10.28. 2022.10.28. Eletricity price[Eur/MWh] 139,08 Gas price[Eur/MWh] 67,8 87,36 24,7 135,47 56,8 87,36 136.49 139,08 139,08

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Source: Refinitiv

Hungarian gas market balance



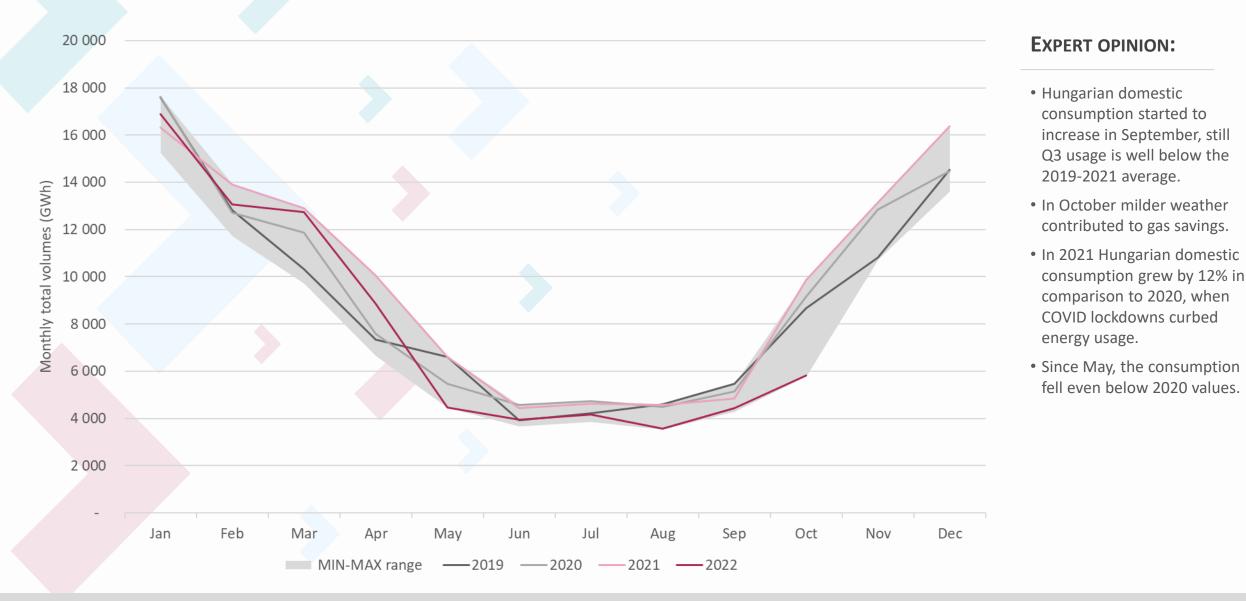
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EXPERT OPINION:

- Domestic consumption increased in October, but it was way below 2021 October values (see separate story).
- Injections continued at a higher pace and there were no withdrawals despite of the "traditional" start of the heating season.
- In October imports reached their highest level in 2022 which is equivalent to the historical volumes including former high Ukrainian transit.
- Flows from RS are becoming the dominant import route and AT volumes also increased. HR and RO imports slightly decreased. SK imports reappeared.

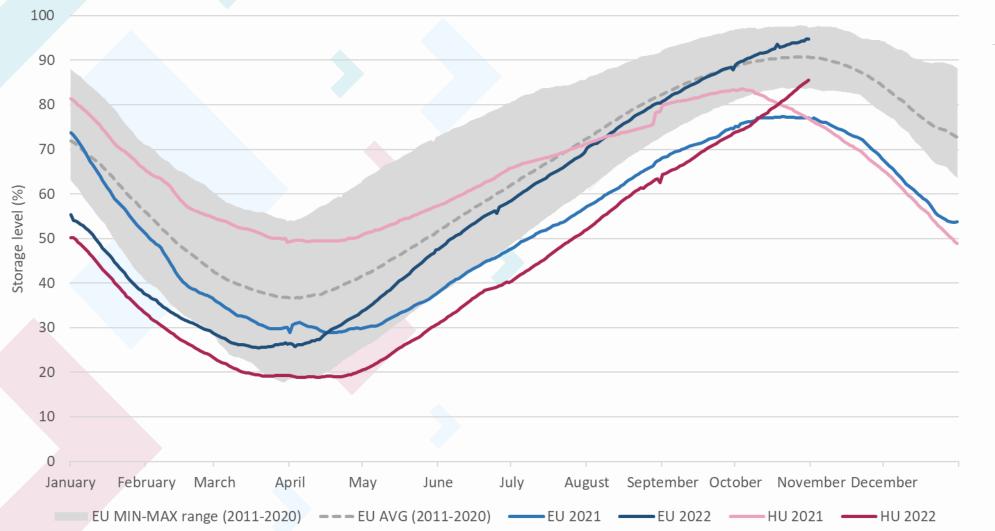


Domestic consumption





Gas storage level in EU and HU

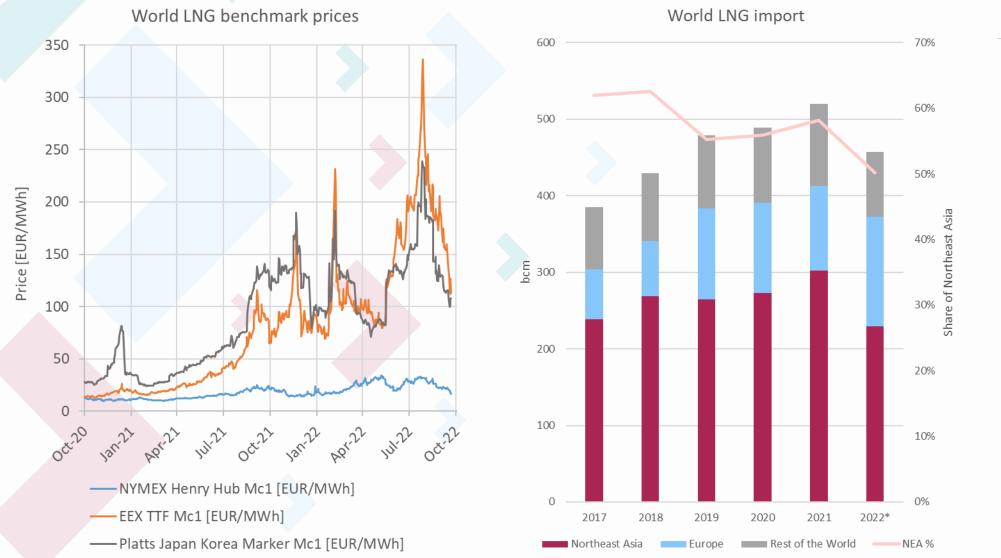


EXPERT OPINION:

- European aggregated storage levels exceeded
 90% by the end of October approaching the highest values of the last 10 years.
- Hungarian storage levels exceeded 80% of the total storage capacity.
- Maintaining adequate storage levels for the winter is key to ensure the security of gas supply even by the end of the heating season.



Northeast Asia, the main competitor of the EU's LNG demand



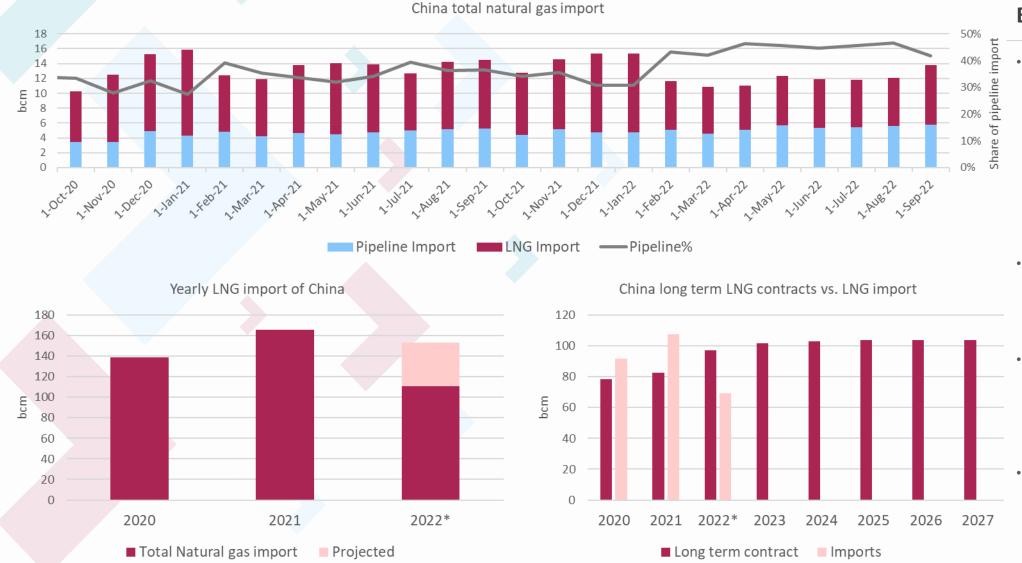
Source: S&P Platts, EEX, Refinitiv

EXPERT OPINION:

- The EU is trying to replace the missing Russian gas on the European market by increasing imports of LNG.
- This has already led to price competition between Europe and Asia in 2021.
- The two huge markets are competing for available LNG supplies and the high European gas prices are currently attracting more ships.
- As a result, Europe's weight in world LNG imports has increased, while Asia's share has decreased.
- It cannot be ignored that since both markets are competing for available LNG, the evolution of Asian demand could strongly influence the European price level and vice versa.



China the TOP LNG importer of 2021

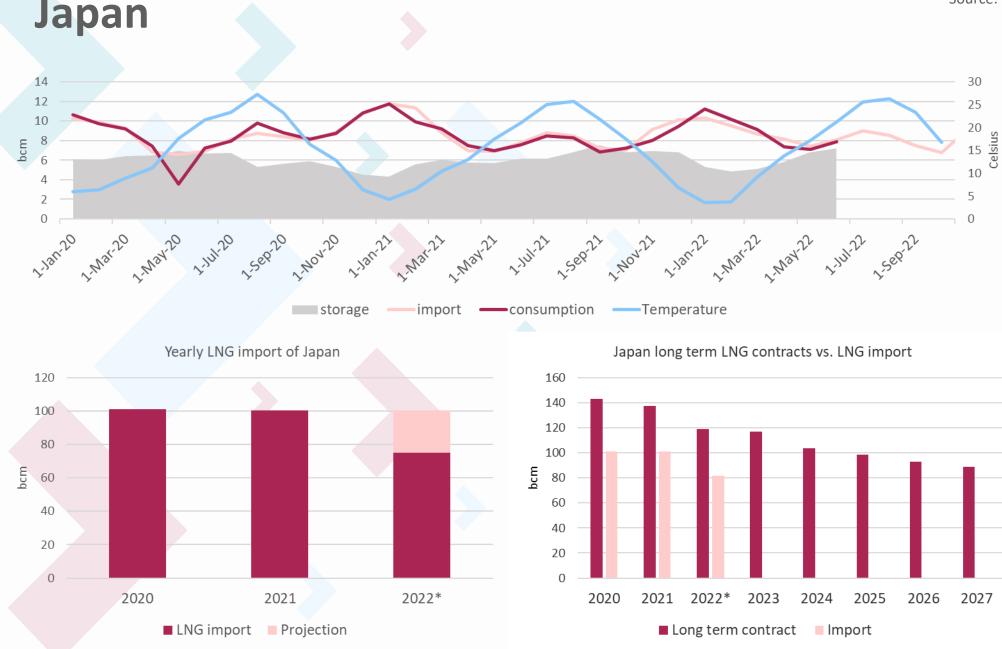


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EXPERT OPINION:

- An important driver of Asian demand is Chinese LNG or natural gas imports. China is the world's second largest economy and in 2021 China was the world's largest importer of LNG. Its energy demand is significant and its demand for natural gas is expected to continue to grow in the future due to the Coal to Gas policy.
- In 2021, it imported more LNG than it had covered by long-term contracts and therefore bought significant volumes on the spot market.
- However, so far this year, it has imported less LNG than it has covered by long-term contracts. In parallel, the share of pipeline gas imports is expected to increase.
- It is unlikely to exceed last year's LNG imports this year. Instead the importance of pipeline gas will increase.





EXPERT OPINION:

- In the case of Japan, the key issues are storage, preparation for winter and consumption. Unfortunately, these data are only available until June
- Although time series data were not provided, METI reported that in October the level of Japanese storage was above the 5-year average.
- However, a bill passed by the Japanese government in October allows for the possibility of restricting gas consumption in case of tight supply.
- A cooler than expected winter could encourage Japanese buyers to pay higher prices for LNG, which could push up prices in Europe.
- Based on JOGMEC reports the prices in the first half of november were on a downtrend due high storage level.



South Korea

8

7

6

5

3

0

130-20

70

60

50

40 مو

20

10

0

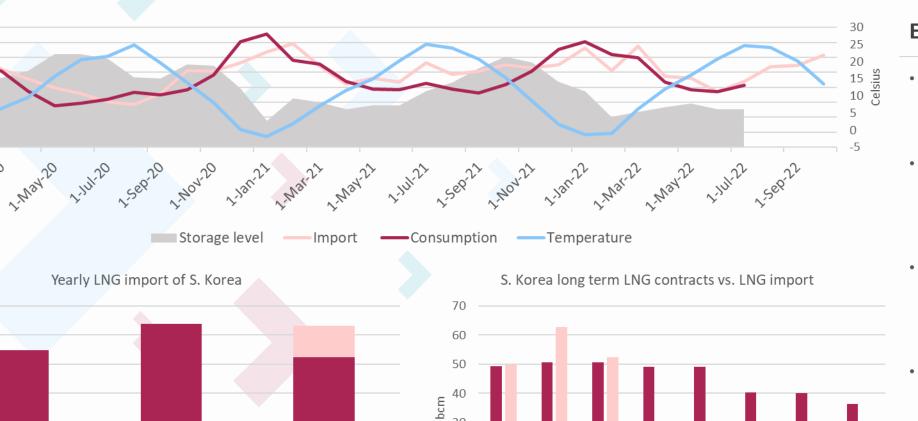
2020

2021

LNG import Projection

Mar.20

pcm 4



30

20

10

0

2020

2021

2022*

2023

Long term contract Import

2024

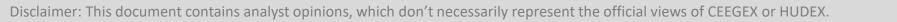
2025

2026

2027

EXPERT OPINION:

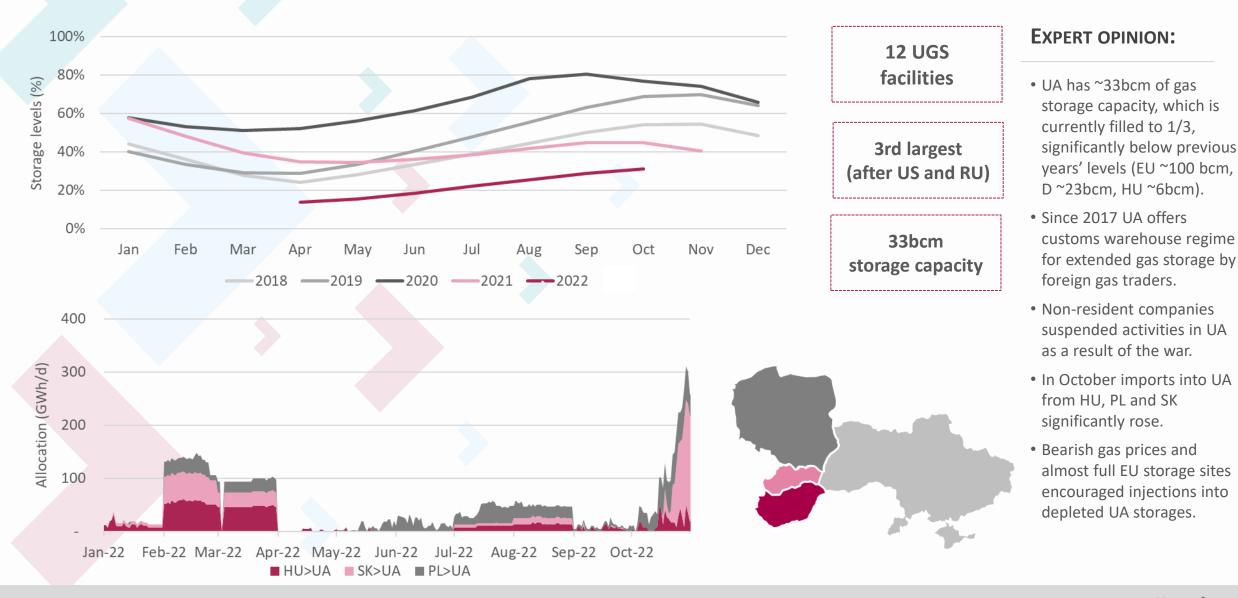
- South Korea has a smaller LNG demand than Japan or China, but is still a significant player.
- In the summer months, storage levels remained low compared to previous years, while consumption did not exceed imports.
- In November, market reports suggest that storage levels are already high, supported by increased imports in the autumn months.
- Long-term contracts generally do not cover their total LNG demand. By October 2022, imports had exceeded this.
- Based on past years' data, their LNG demand is expected to increase in January and February when temperatures are at their lowest.



2022*



Ukrainian storages





Energy Market Interventions - EC proposals

 In advance of the European Council meeting on 20-21 Oct the Commission published a draft Regulation on enhancing solidarity through better coordination of gas purchases, exchanges of gas across borders and reliable price benchmarks in order to address excessively high and volatile gas prices.



- The proposals included:
 - Gas Market Correction Mechanism: the EC proposed a temporary "dynamic price corridor" at the Dutch TTF as a last resort used only to tackle "extreme natural gas prices". EC proposed also a collar aimed to protect energy traders from large intraday price movements, and so reduce the collateral requirements triggered by them.
 - New benchmark for LNG: development of a separate LNG price index "to ensure a representative benchmark for LNG imports not influenced by Russia's manipulation". The EC's proposal would give ACER the power to collect same day trading data for LNG imports, including bids, offers and trades that specify delivery or are delivered into the EU. All companies involved would have to report such data, regardless of there were based
 - **Temporary Joint Purchase of Gas:** The EC proposed that **EU countries aggregate their demand and coordinate their gas buying** specifically to fill gas storages next year.
 - Demand reduction: a key element in the proposal is to put more efforts to cut gas demand. This could include making the EU's voluntary goal to cut its gas demand by 15% this winter mandatory by triggering an EU emergency alert.
 - **Solidarity obligation:** Member States would be able to trigger a solidarity request if gas-fired plants critical to electricity system adequacy are at risk of not getting critical gas volumes. This is an **expansion of the current solidarity protection obligation**.



EU energy ministers have expressed strong support for joint gas buying and supported the EC's proposal to ask ACER to develop an LNG price benchmark, but remained divided on possible gas price caps after a council meeting in Luxembourg on 26 Oct.



