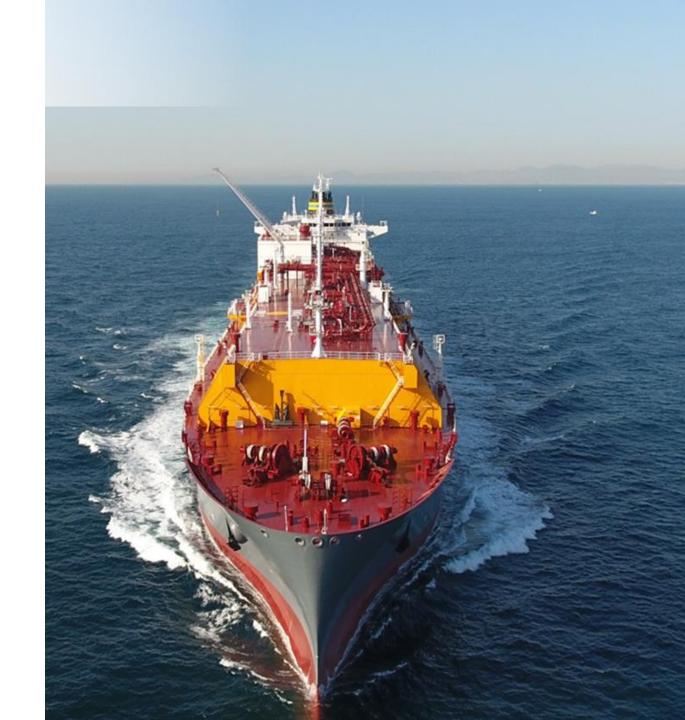


# **Gas and LNG Regional Overview Europe**

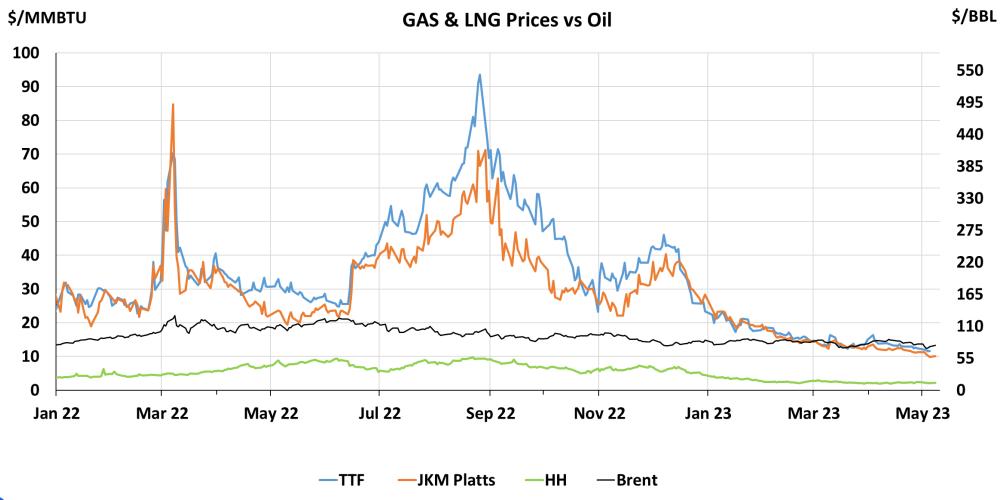
**TotalEnergies**Laurent Chaveron, LNG Marketing

**GIIGNL** Executive Committee 2023



### European and Asian prices spiked with the loss of NS1 gas flows

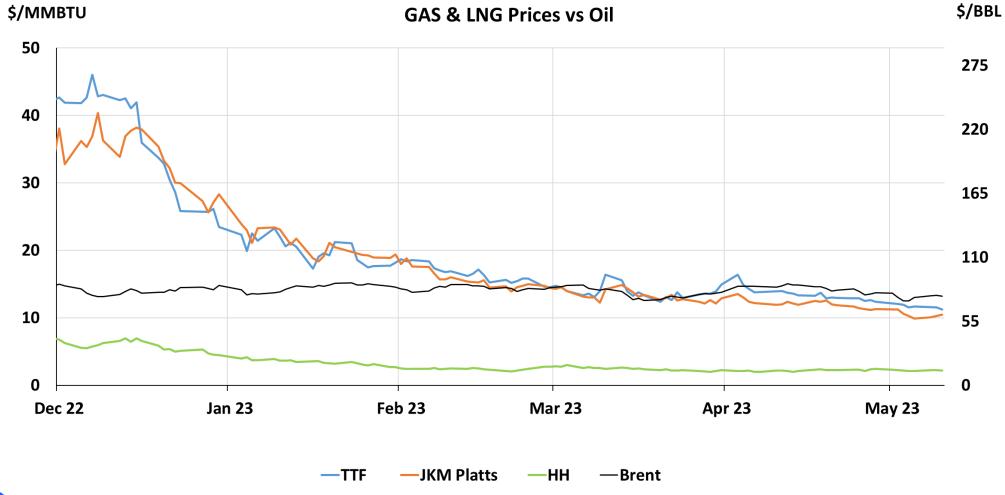
Strong correction movement from the beginning of Winter 2022. Mild winter accelerates the move from Dec.





#### European and Asian prices spiked with the loss of NS1 gas flows

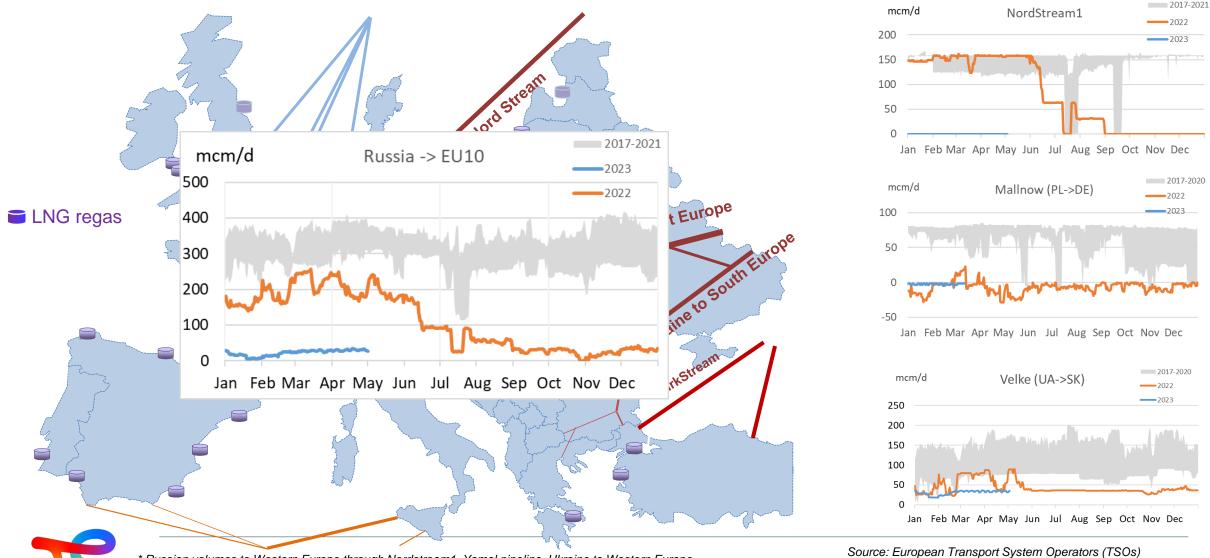
Strong correction movement from the beginning of Winter 2022. Mild winter accelerates the move from Dec. TTF and JKM back below oil parity since April





#### Russian pipe flows to Western Europe close to zero for the whole winter

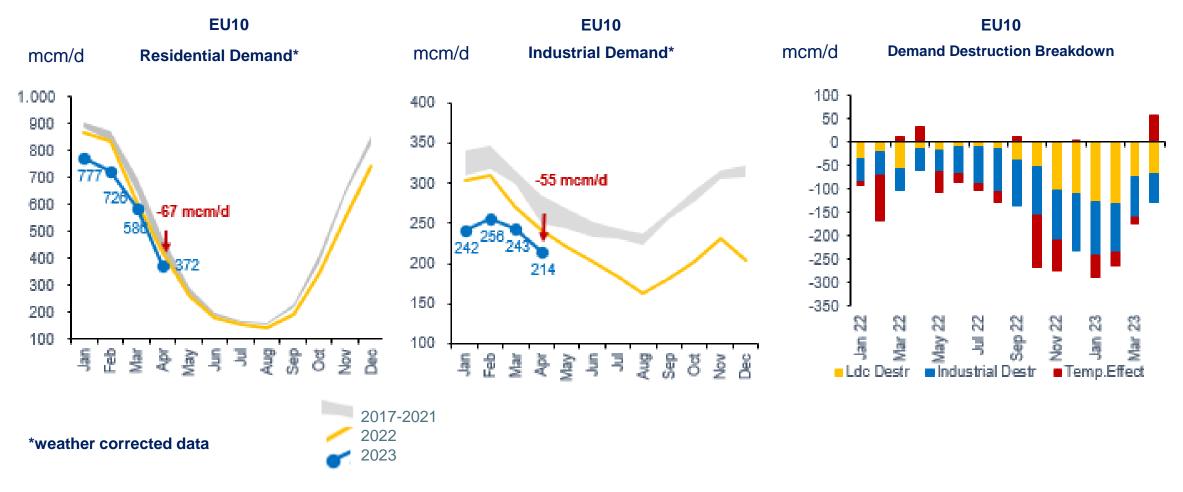
Volumes dropped from 102 Bcm in 2021\* to 4 Bcm YTD, Ukrainian pipes are the only ones still flowing



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#### Gas demand destruction has been an important balancing item in winter

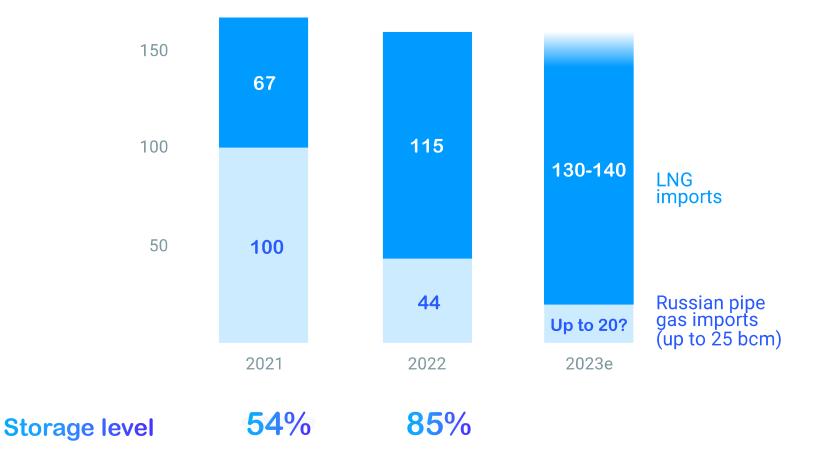
Destruction is continuing, despite lower gas prices, both in the residential and industrial sector





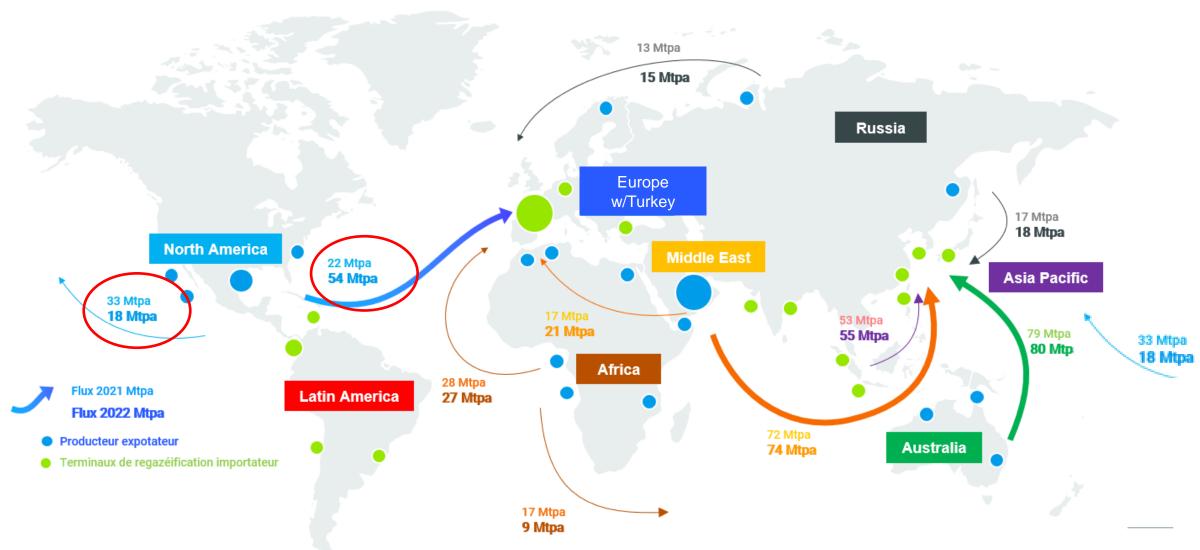
### European LNG and Russian pipe gas imports

#### Mt LNG equivalent





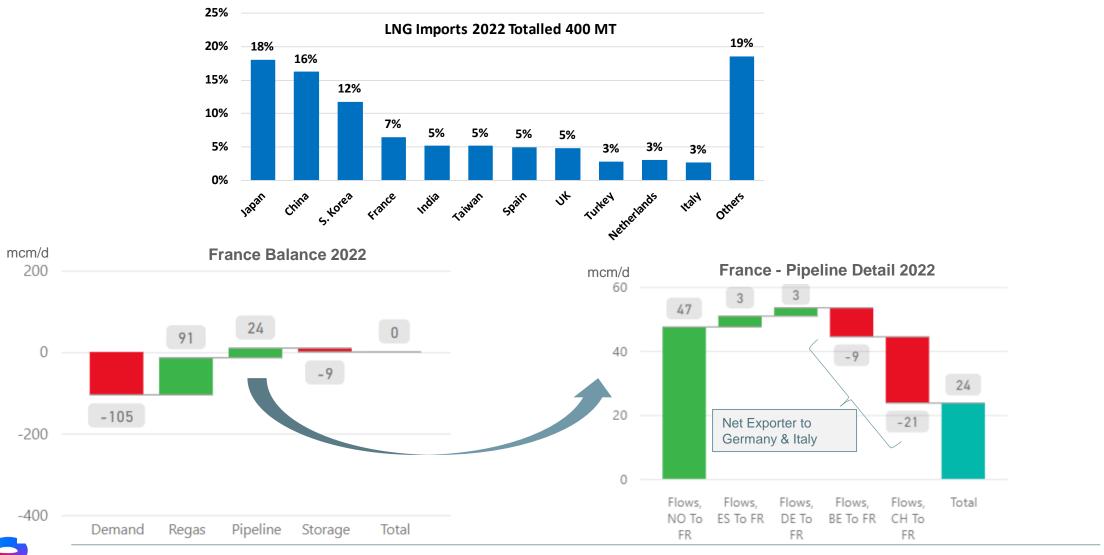
#### Main LNG flows 2021 and 2022



#### France became the 4th LNG importer in 2022

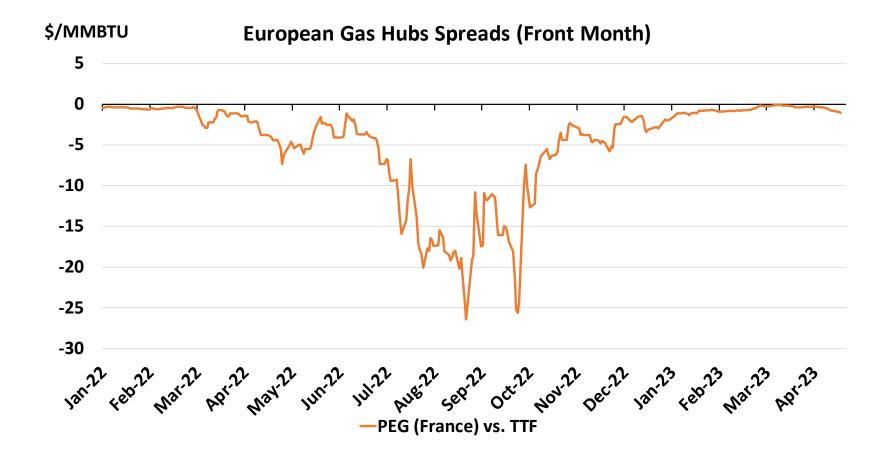
**TotalEnergies** 

as it was also the entry point for LNG to be dispatched to the rest of the Continent



#### French gas prices decreased well below TTF as pipe bottlenecks appeared

giving the market the signal for investment in new LNG regas where it was most needed

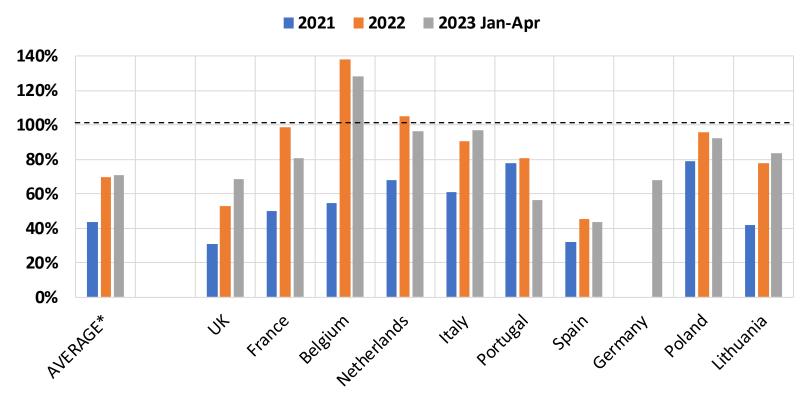




#### Average\* utilisation rates of regas from 45% in 2021 to ~ 70% today

Big differences remain across countries as bottlenecks on pipes infrastructure limit LNG import potential Several terminal operators added temporary and interruptible capacity in 2022 Expansions and new regas are coming mostly in NWEurope

#### **Utilisation rates of regas terminals**



<sup>\*</sup> Average of the listed countries only NOTE: Utilisation rates calculated on nominal firm capacity and delivered LNG imports only (excl. reloads and transhipments)



## Three terminals have already started operations in Germany with more to come until end 2023

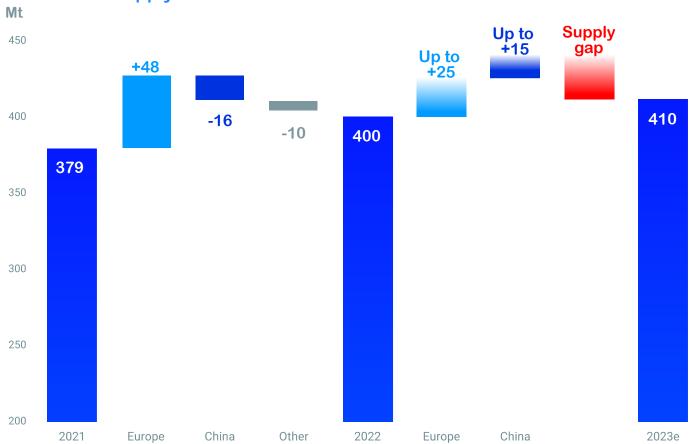
LNG volumes will be more evenly spread, reducing stress on the west-east gas flow direction



### **European gas driving LNG**

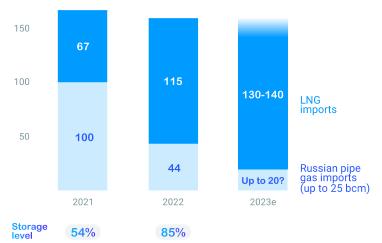


#### Global LNG supply/demand 2022-23



- → 2023 demand capped by limited supply growth
- → 2022 price tensions expected to remain in 2023

#### **European LNG and Russian pipe gas imports Mt LNG equivalent**



# 8 long-term SPAs with Europe as assumed main destination were signed in 2022, for a total quantity of 9.5 MTPA

| Seller         | Buyer          | Supplying Project    | ACQ<br>(MTPA) | Incoterm | Destination      | Start Year | Duration (years) |
|----------------|----------------|----------------------|---------------|----------|------------------|------------|------------------|
| Woodside       | Uniper         | Portfolio            | 0.8           | DES      | Northwest Europe | 2023       | 17               |
| Sempra         | Ineos          | Port Arthur LNG      | 1.4           | FOB      | Europe           | 2027       | 20               |
| Sempra         | RWE            | Port Arthur LNG      | 2.3           | FOB      | Germany          | 2027       | 15               |
| Venture Global | EnBW           | Calcasieu Pass 2 LNG | 1.0           | FOB      | Germany          | 2026       | 15               |
| Venture Global | EnBW           | Plaquemines LNG      | 1.0           | FOB      | Germany          | 2026       | 15               |
| QatarEnergy    | Conoco Philips | NFE                  | 1.0           | DES      | Germany          | 2026       | 15               |
| QatarEnergy    | Conoco Philips | NFS                  | 1.0           | DES      | Germany          | 2027       | 15               |
| Next Decade    | Galp           | Rio Grande LNG       | 1.0           | FOB      | Portugal         | 2028       | 20               |



#### Energy security, a top priority for Europe. More to be done

- Europe managed to overcome the Russian crisis through a combination of factors:
  - High LNG imports thanks to increased US availability and lower competition from Asia
  - Lower gas demand: in reaction to high prices and saving efforts
  - Exceptionally mild weather
- However longer-term solutions are necessary. The market gave signals on the priorities, but critical issues remain:
  - Temporary regas capacity was added where possible in 2022. New regas terminals are coming online where mostly needed
  - The pipe infrastructure is still a bottleneck to the optimization of LNG flows dispatch across countries
- Europe needs to keep high LNG imports in the medium term
- Additional LNG volumes contracted on a long-term basis remain quite limited when comparing to the missing firm Russian gas volumes

