

The Competitiveness of the European Chemical Industry



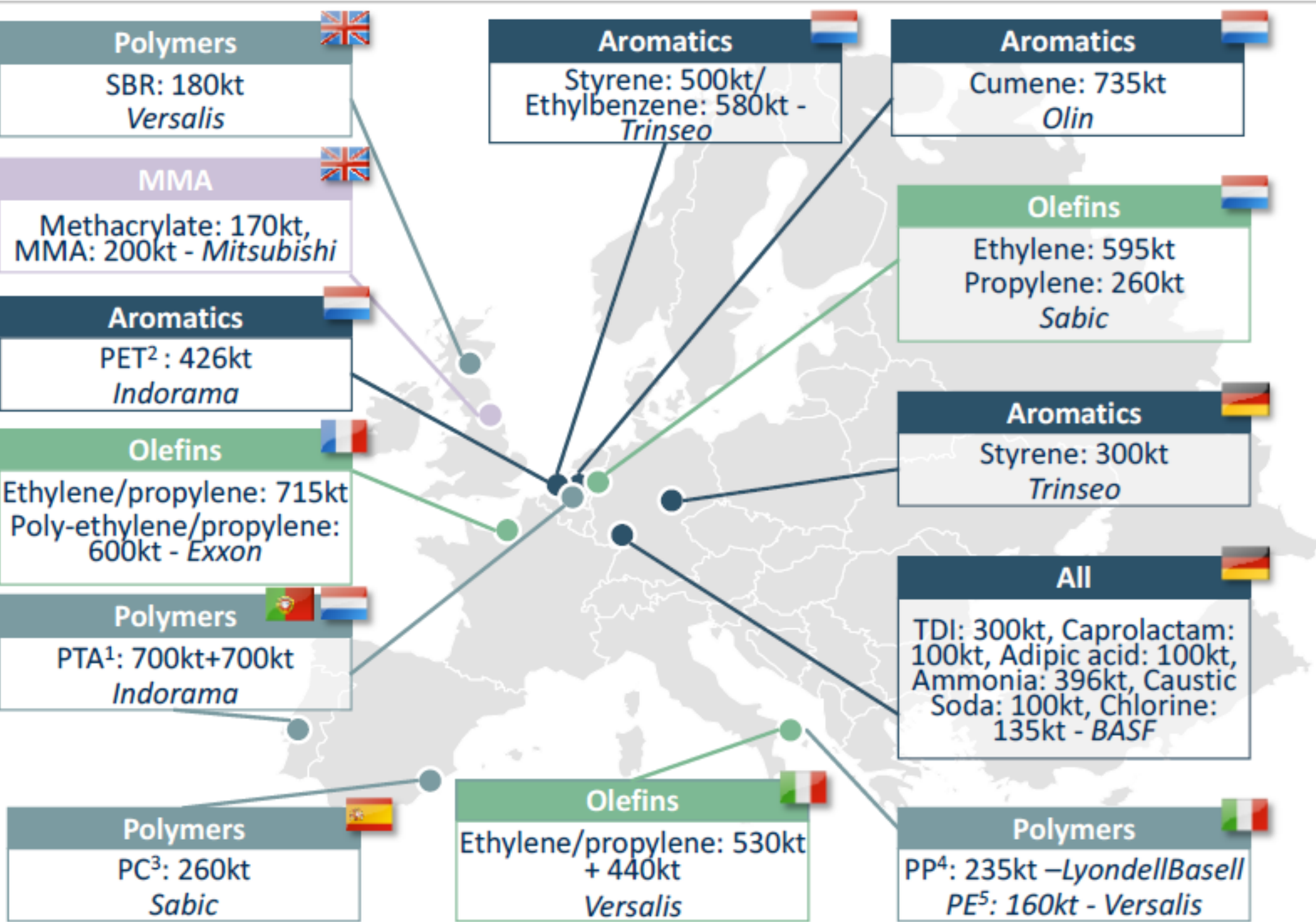
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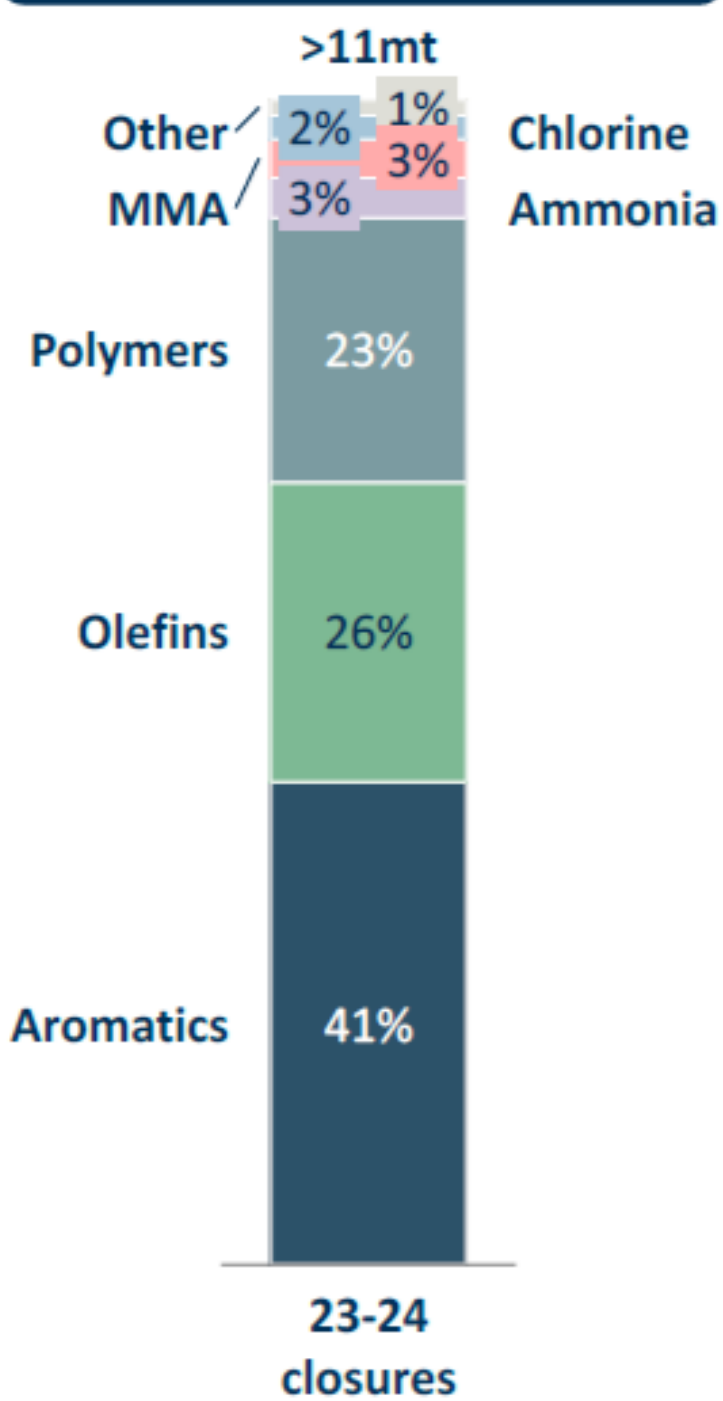
Main European capacity closure announcements

Up to October 2024

kt, mt, %, 2023-2024, up to October 2024, non-exhaustive list



Main announcement to date



Sources: Companies website, S&P, Chemical Week, Advancy



• Over 11 million tons of capacity have already been announced to be closed for 2023-2024, affecting 21 major sites

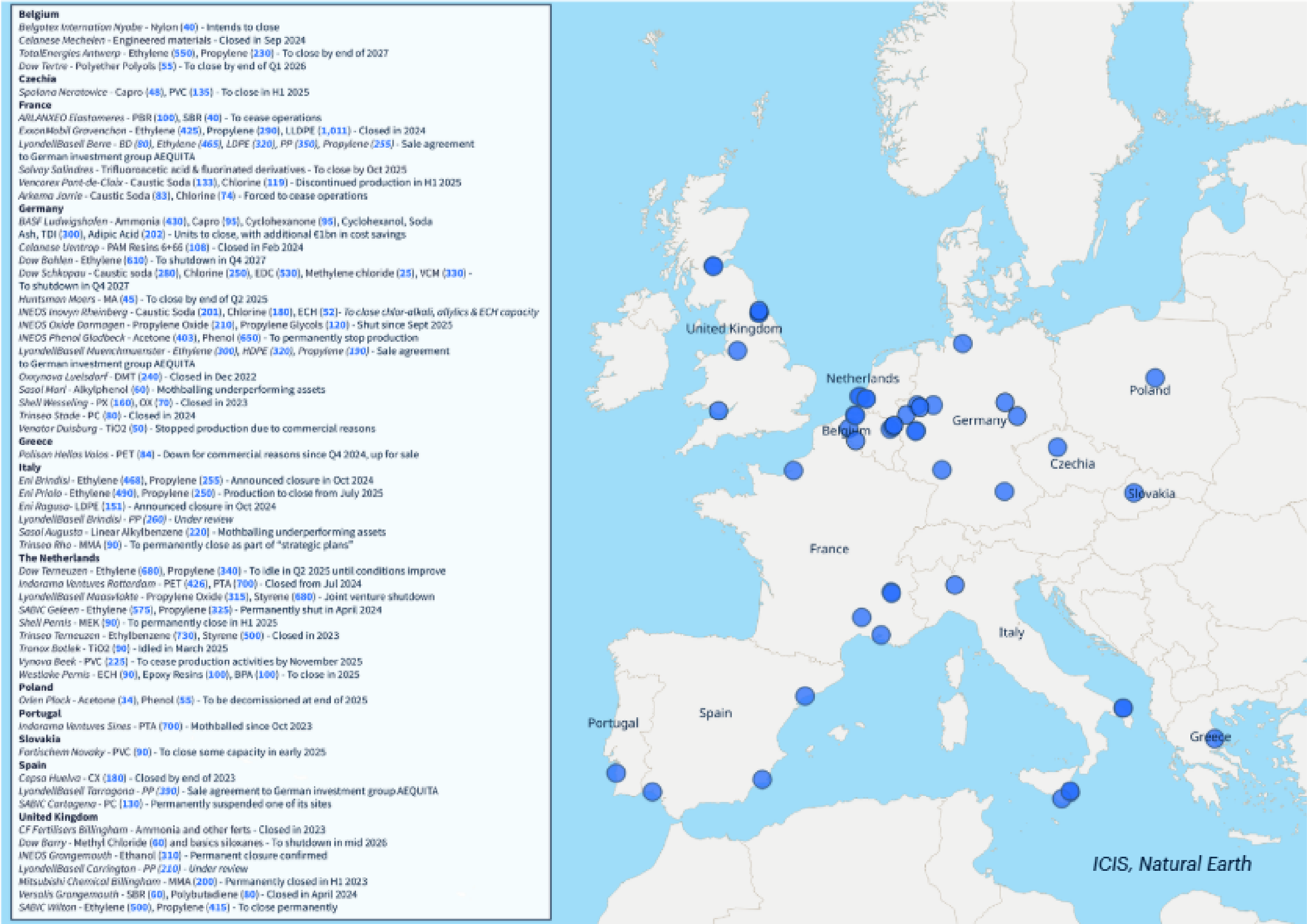
Main European capacity closures announcements

23 MT closed or under review for shutdown or sale since 2022 (8.5%of 2021 capacity)

Up to October 2025

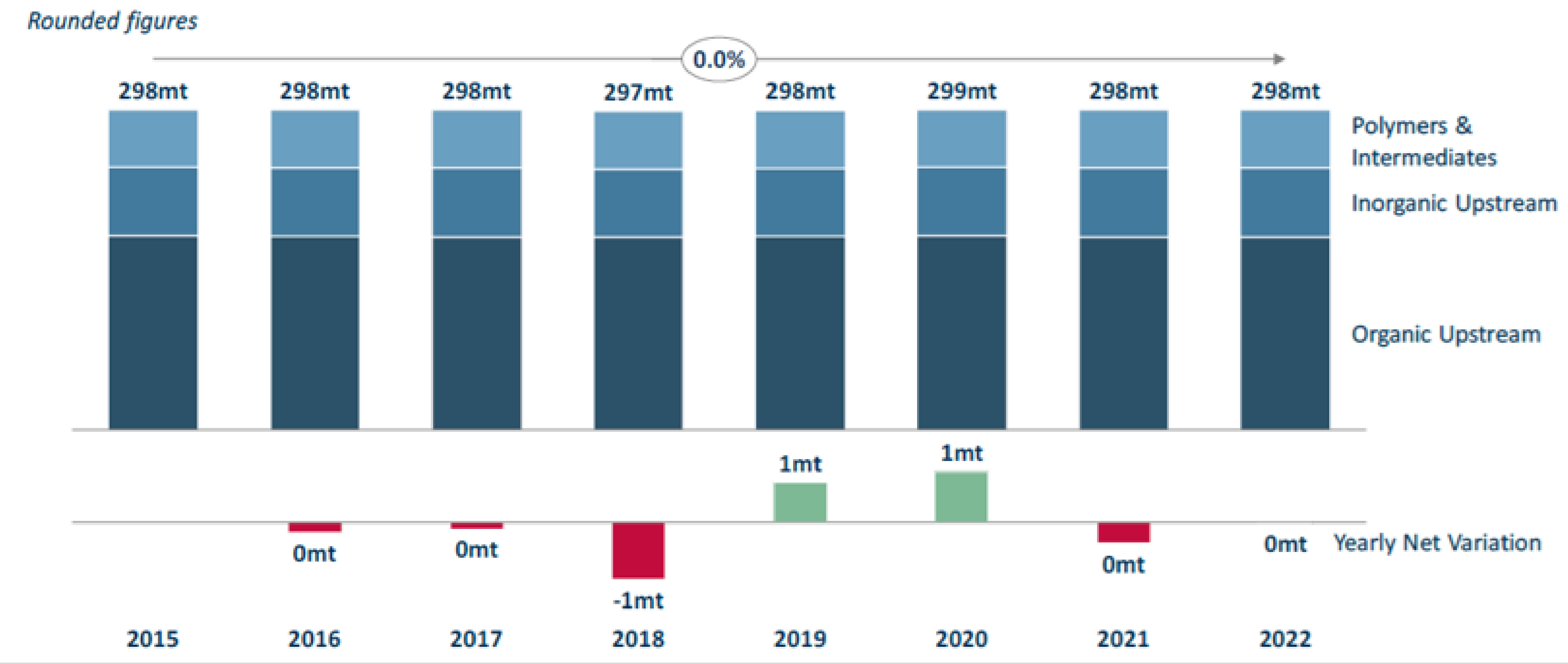
**Capacities of plants in brackets next to product in '000 tonnes/year*

Last updated 08 October 2025



Capacity variation in Europe compared to current capacity closures

mt, 2015-22, Europe, top 35 chemicals in volumes

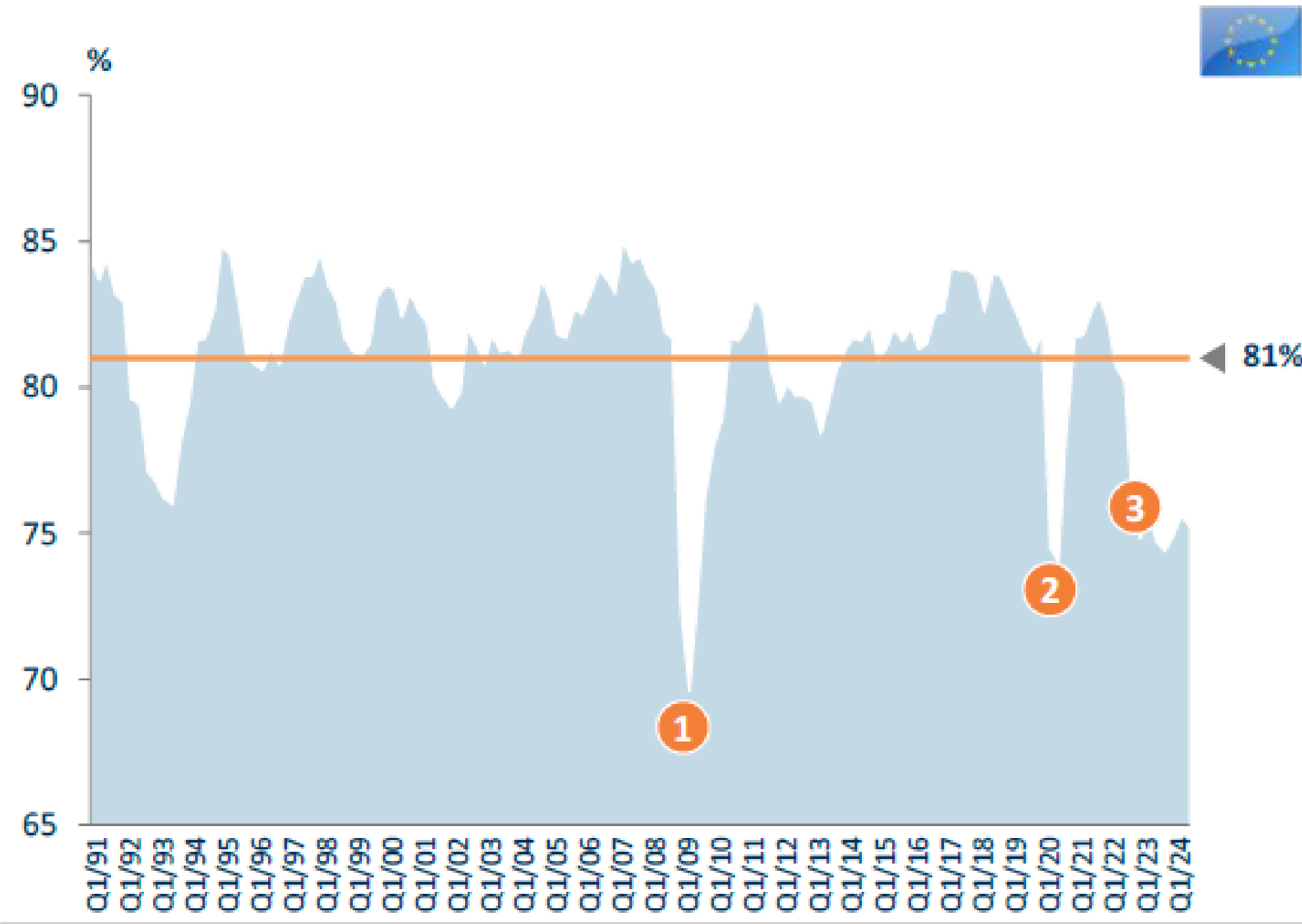


- The 23 mt of capacity closures are well above the annual variations that have occurred in recent years, by a factor of 23.

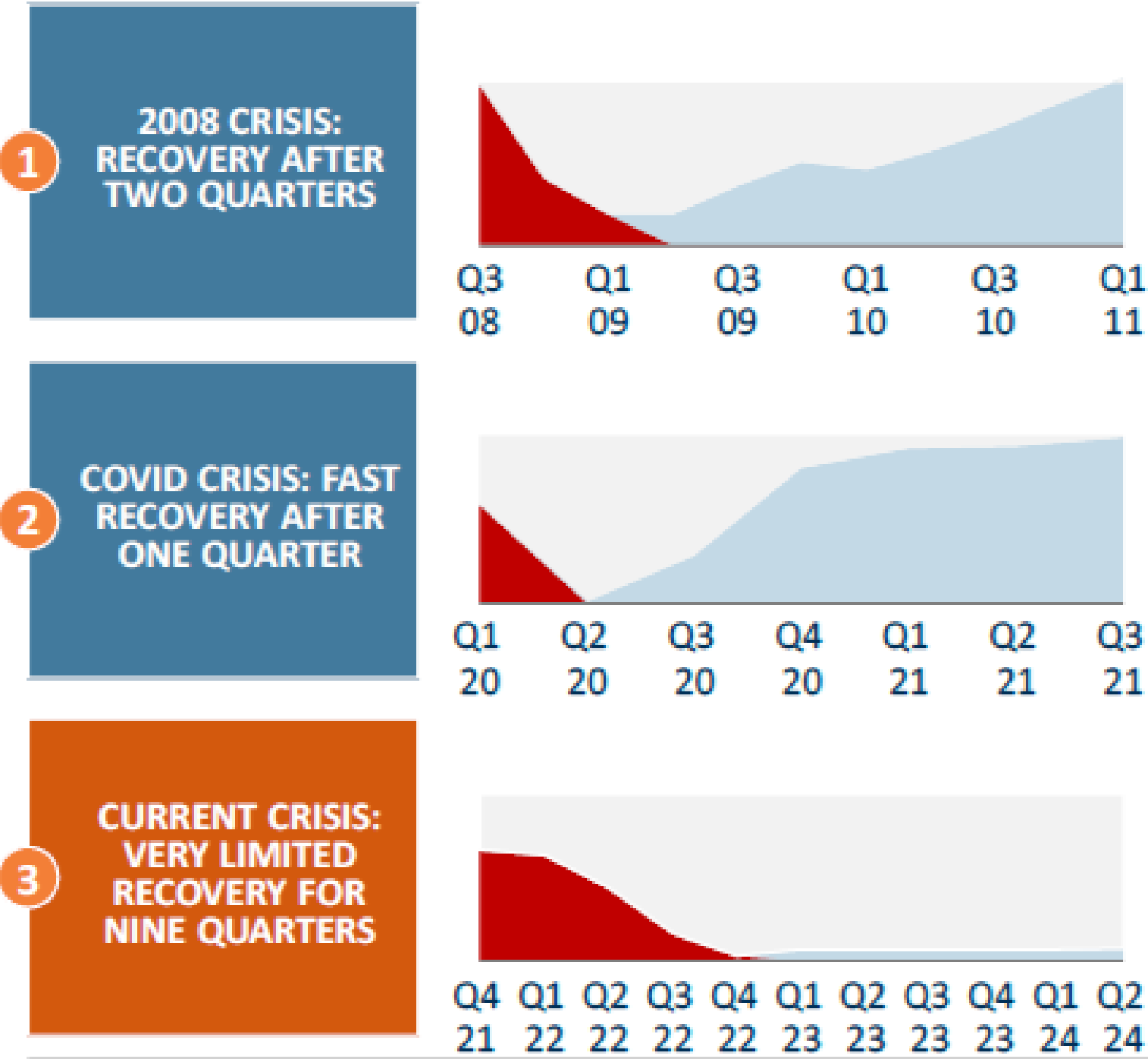


European chemicals utilisation rate

EU27, %, 2008 – Q2 2024



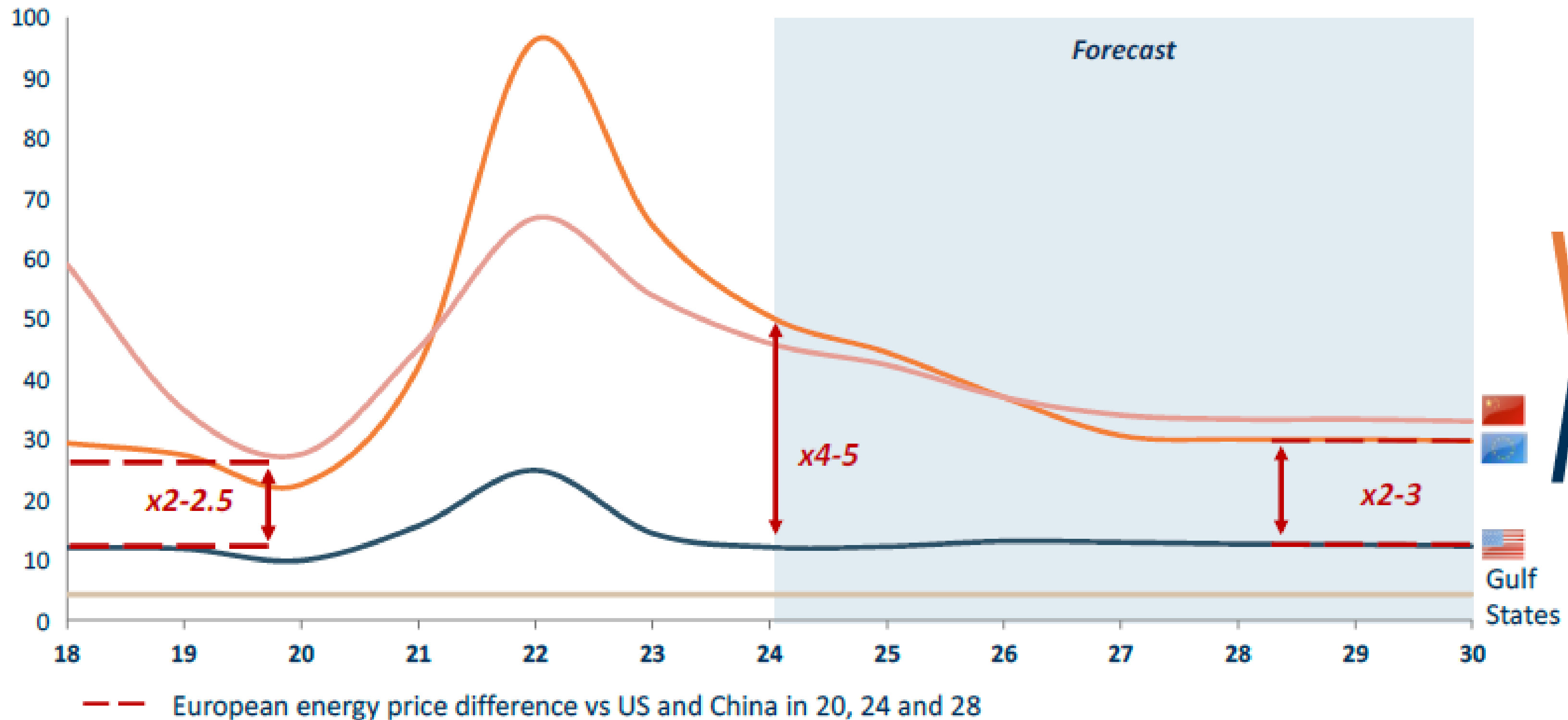
2008-2011, 2020-2021, 2021- 2023



Sources: CEFIC, Advancy analysis



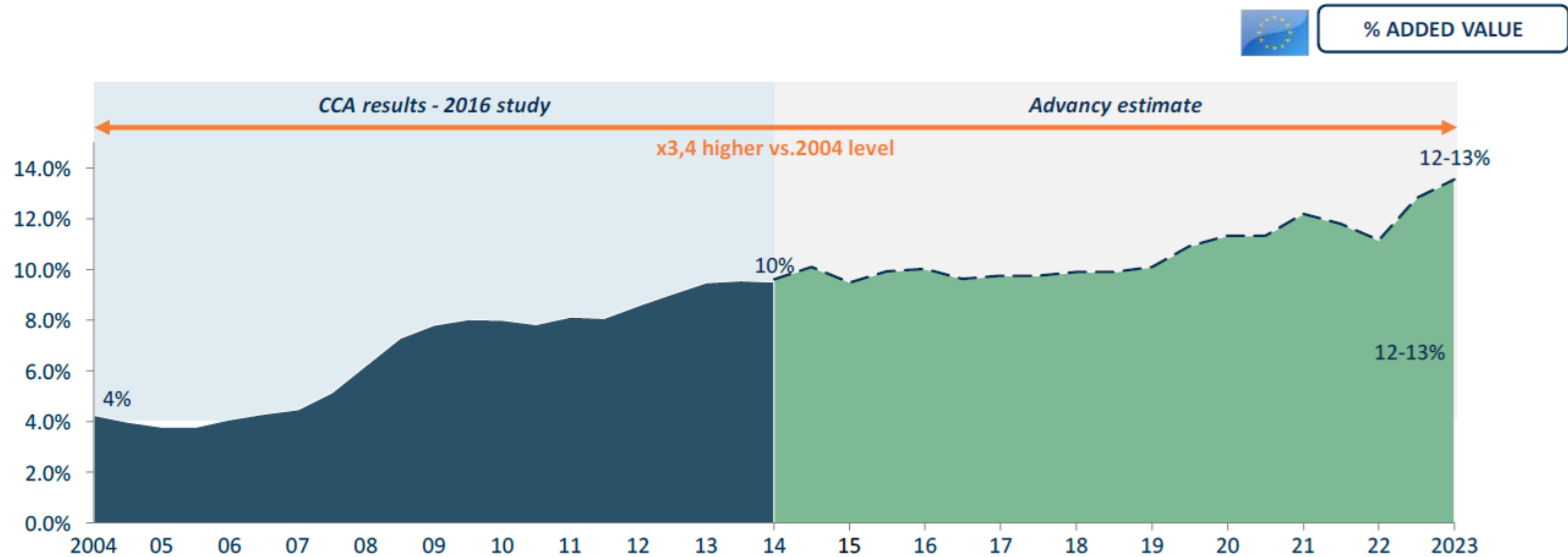
- The trend of global excess in capacity results in the low utilisation rate of the EU Chemical industry, at only 75% for the past nine quarters. The depth and duration of the slowdown is unprecedented.

NATURAL GAS¹ (€/MWH)

- Natural Gas prices were 4-5 times higher than in the USA in 2024 compared to 2-2.5 times in the period 2010-2020. The gap is forecast to remain 2-3 higher, given current European energy framework and policy.

Regulatory costs evolution in Europe

% of added value, 04-23, EU27



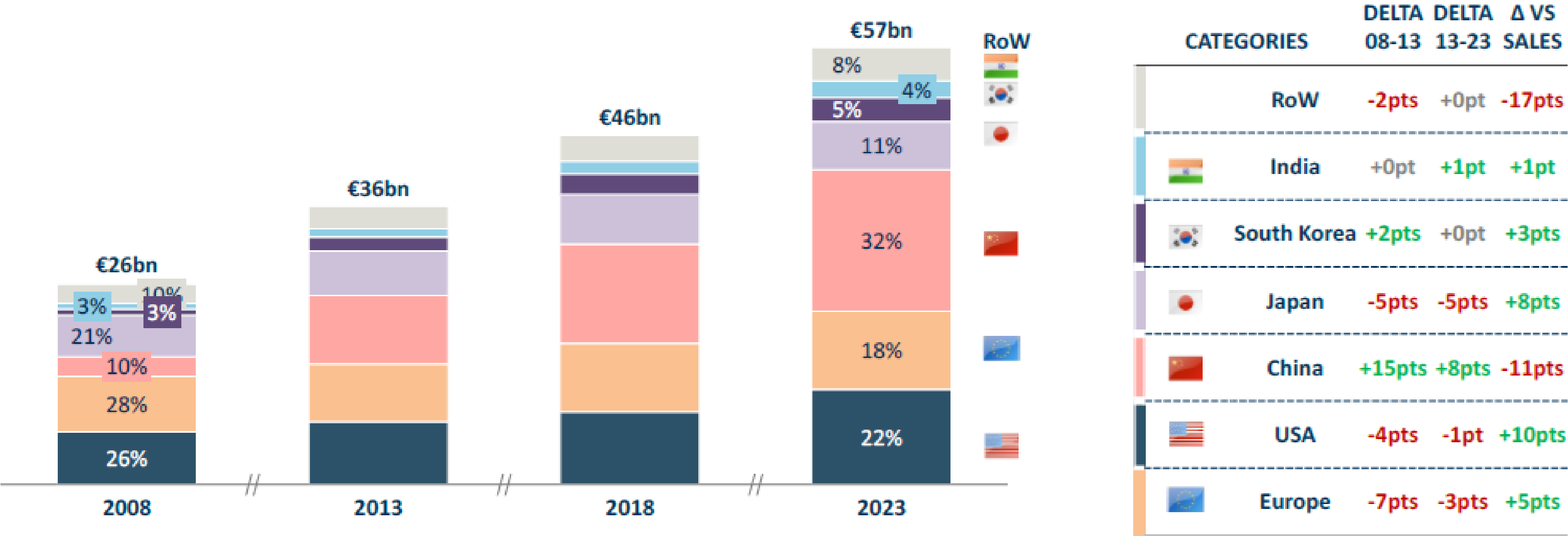
Sources: Cefic, UNPRI, Advancy analysis



- Since 2014, regulatory costs have continued to rise and are now estimated to be around 12-13% of total added value which is up to 2 times greater than R&D expenditure in % of added value.

Evolution of R&D spending in chemicals by region

2008-23, €bn, %, Global, R&D

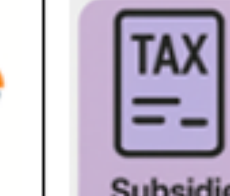
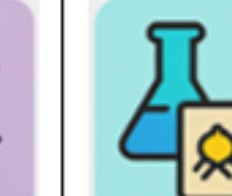


Note: (1) Delta between % R&D spending vs. % Sales / Sources: Cefic, Advancy analysis



- Over the last 15 years, the EU's share of global R&D spending in chemicals has lost ground reaching about 18% in 2023 (28% in 2008).

Overview of competitiveness drivers by region

	 Energy	 Environment and regulatory costs	 Labour costs & productivity	 Logistics costs	 Capital costs & investment	 Subsidies & tax policies	 Innovation	 Human capital	 Supply/demand ecosystem	 Policy framework	% Share on world chemical sales
	-2	-1	-1	+2	+1	-1	+2	+2	+1	-1	 12.6
	+2	0	-2	+1	+2	+2	+2	+2	+2	+1	 11.2
	+1	+1	+1	+2	+1	+2	+1	+1	+2	+1	 43.7
GULF STATES	+2	+2	+1	+1	+1	+2	-1	-2	-1	+1	 8
	-1	0	-1	+1	0	-1	+2	+2	0	0	 2.8
	-1	0	0	+1	0	0	+2	+2	0	0	 2.6
	-1	+2	+2	0	-1	0	0	0	0	0	 2.6

Positive impact    Negative impact



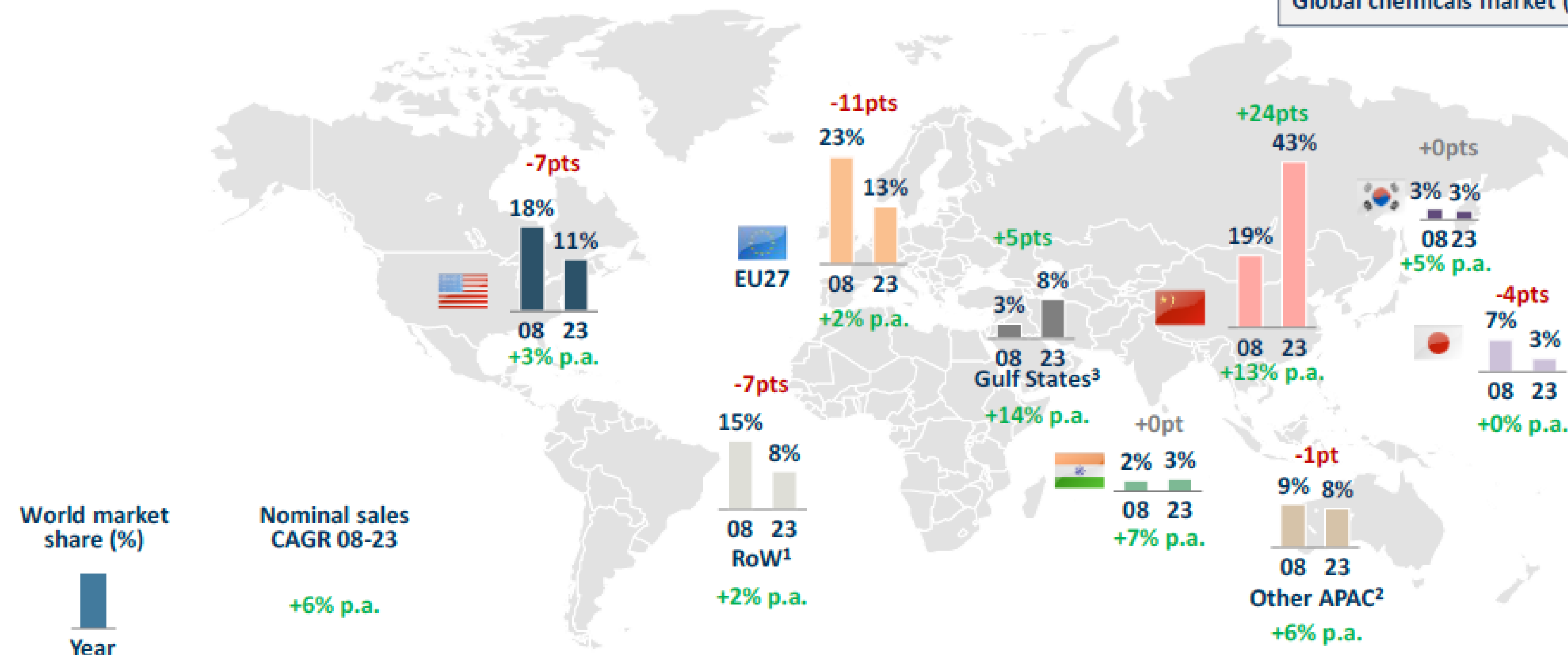
Differences in energy costs have the strongest impact, with a clear cost gap compared to other regions

Source: Cefic-Advancy Joint Study: The Competitiveness of the European Chemical Industry

Evolution of regional shares of the chemicals market

Nominal sales, market shares in % of sales, sales CAGR in %, 2008-2023, World

Global chemicals market (2023) : €5.2T



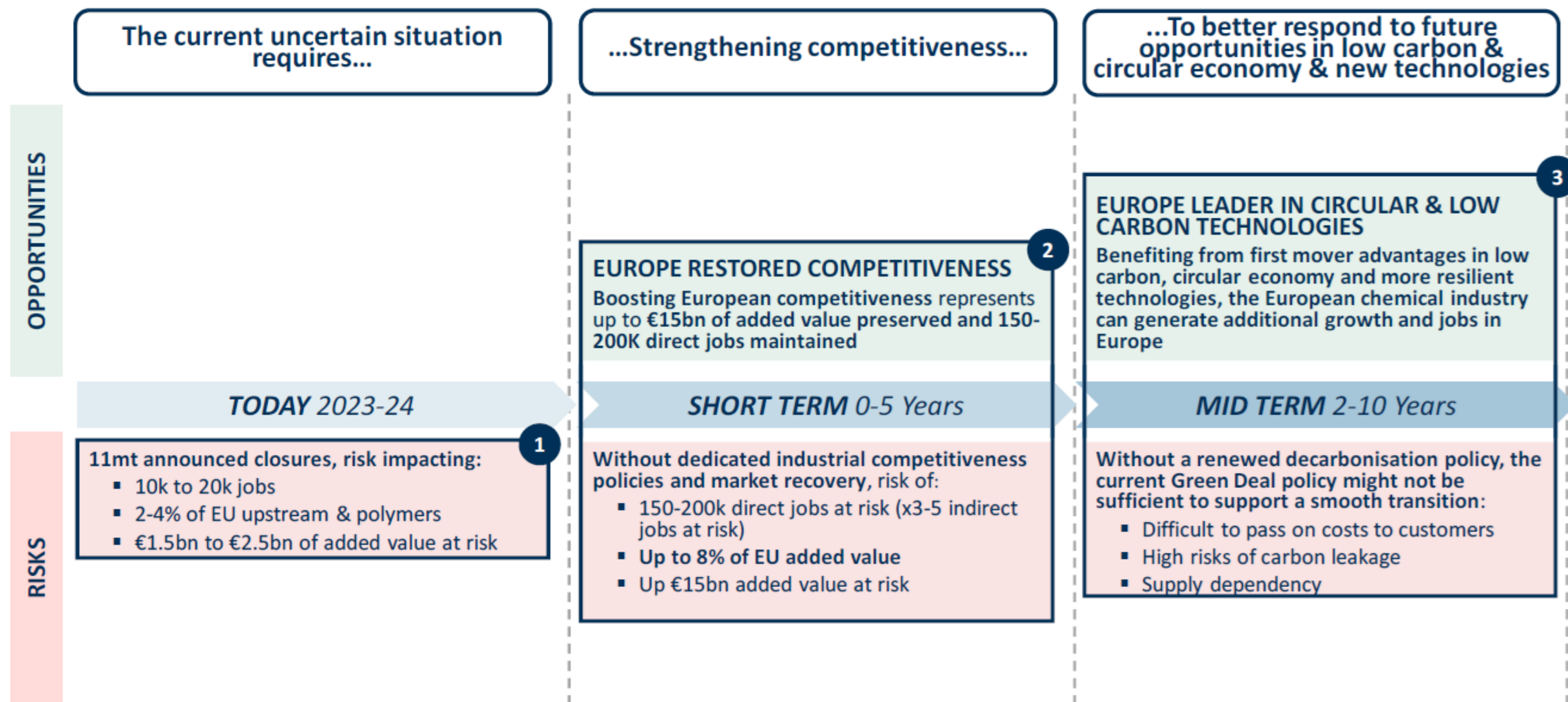
Notes: (1) Rest of the world includes: Latin America, Europe outside EU27 including UK and Russia, Africa, Mexico, Canada, (2) Other APAC includes all Asian and Oceanian countries ex. China, India, Japan, South Korea, (3) Including GCC countries, Israel, and Iran

Sources: Cefic 2023, Gulf Petrochemicals & Chemicals Association, Advancy analysis



- Europe's market share in terms of nominal sales has declined by around 11 percentage points over the past 15 years, from 23.3% to 12.6% between 2008 and 2023.

European risks and opportunities



Sources: Advancy analysis



- With a dedicated industrial policy to strengthen its competitiveness, the chemical industry can avoid the risks of additional closures, which can be up to 8% of EU added value, putting 150-200k direct jobs at risk.

I thank you for your attention!
Σας ευχαριστώ!

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