

A tough year for European chemicals players has come to an end – We do expect a continuation of the challenges into 2024!

CALL FOR ACTION!

January 2024



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# Europe – A tough playground for chemical manufacturers



# European chemical manufacturers are facing a prolonged downturn which requires rigorous short-term measures to protect business foundation

Dimensions of the ongoing downturn



#### **NEGATIVE LONG-TERM TREND**

- Long-term decline in global market share from 27% to 14% between in 2002 and 2022
  Since 2022, capacity utilization is below historical averages and in critical area below 80%

#### SEVERE SHORT-TERM DEMAND REDUCTION



- Customers' business confidence has fallen dramatically resulting in demand softness for chemicals
- Neither actual orderbook nor (export) outlook indicate a turnaround bottoming out at best

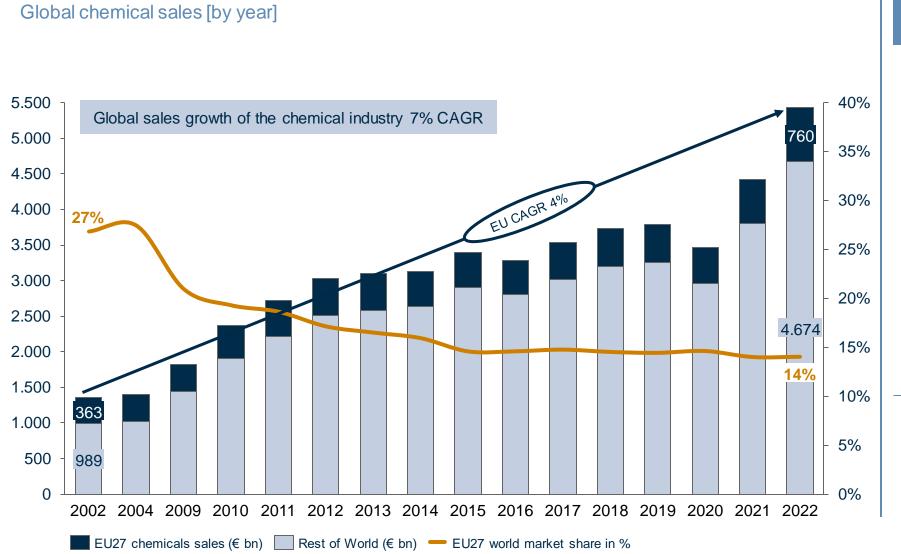
#### **COMPETITIVE (ENERGY-) DISADVANTAGES**



- European manufacturers are disadvantaged due to high energy costs, even at normalized levels Sentiments scores across industry participants reflect the decreasing competitiveness, especially outside the EU

We've seen a "summer of profit warnings" and an increasingly negative view on recovery in the coming months

### In the last decades, European manufacturers experienced a slow though steady growth in sales, but lost share on the global market

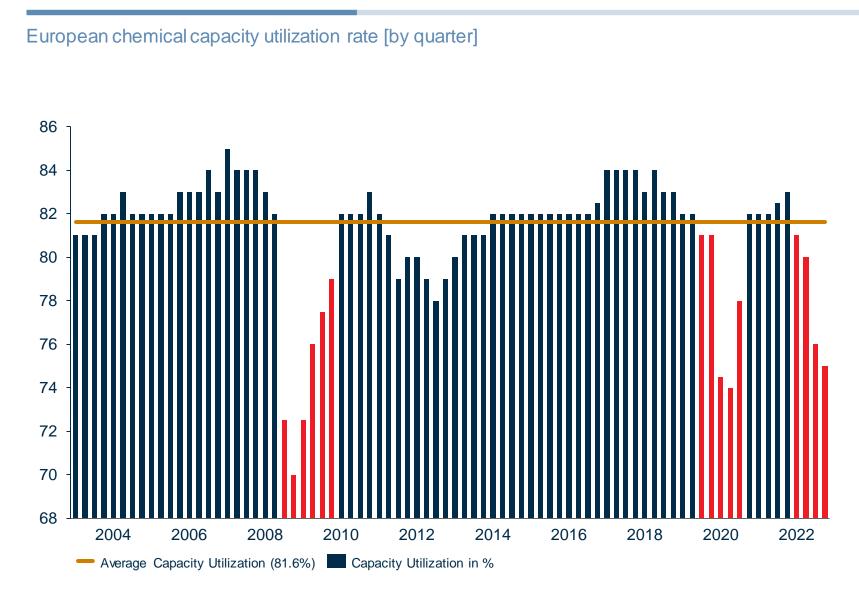


#### Comments

- Globally, the chemical industry grew by 7% p.a. over the past 20 years
- European manufacturers participated disproportionally low by showing 4% p.a. sales growth
- Hence, significant loss in global market share for European players from 27% to only 14% between 2002 and 2022

With steadily decreasing market share, the future position of European manufacturers is at risk

### Since 2022, capacity utilization in Europe is below its long-term average and reaching critical levels below 80%

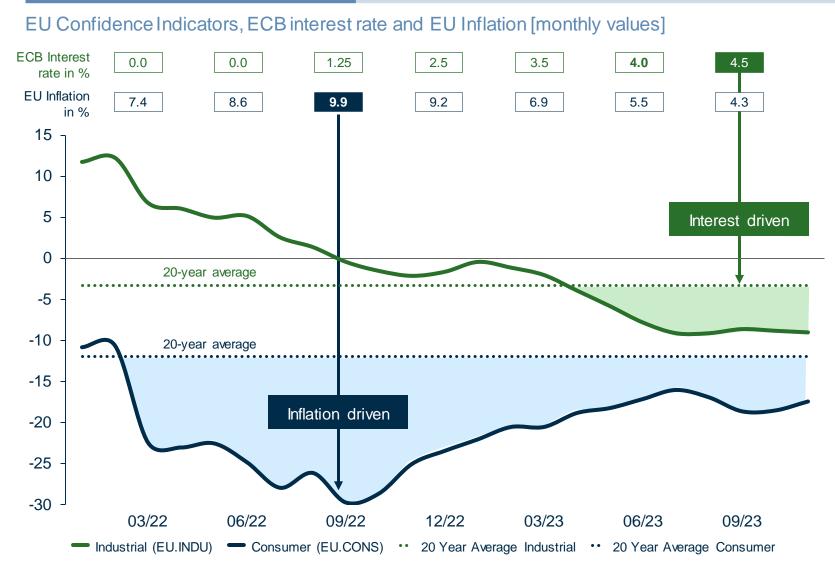


#### Comments

- Utilization in past 20 years only on today's level during financial crisis 2008/09 and Covid shock in 2020
- Immediate crisis effect lasted only 2-3 quarters with fast rebounds ("V-shape" crisis) in both shock moments
- These days, the industry is experiencing a continuous decline since 4 quarters and bottoming out expected as best result

Low-capacity utilization is burdening profitability and cash generation in fixed cost-heavy chemical industry

# Confidence indicators for both consumer and industrials are below their 20ys-avg – Other than consumer confidence, industrial confidence continuously worsening



#### Comments

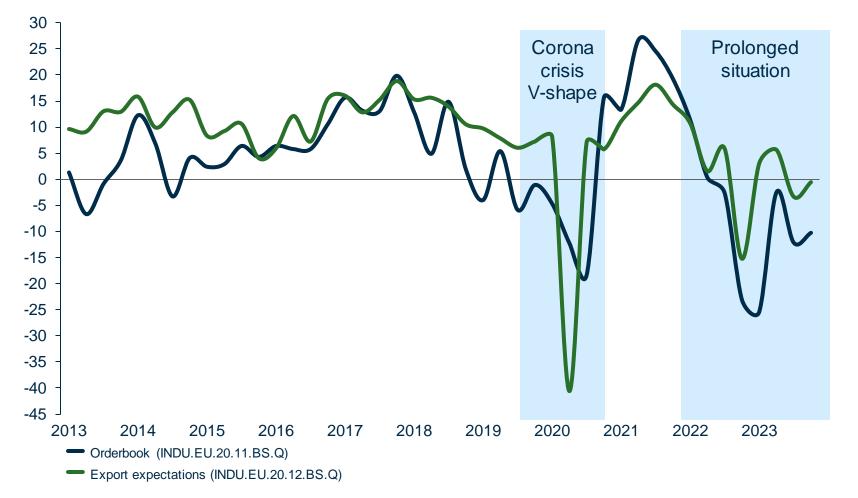
- Consumer confidence was hit early by the rise in inflation and shrinking purchase power – leading to reduced downstream demand across all B2C segments
- As inflation continued to stay high, interest rates followed, and subsequently industrial confidence went down (in particular due to reduced investment activities)

Depressed confidence and negative outlook continue to be prevalent, thus demand is at best stabilizing at lower level

Note: Average calculated based on equally weighted monthly values for 2003-2023 Source: European Union Confidence indicators; Alvarez & Marsal

# Expectation of prolonged demand depression also confirmed by decreasing actual order book as well as export expectations of the chemical industry

EU chemical Industry indicators for orderbook and exports [by quarter; value based on index]



#### Comments

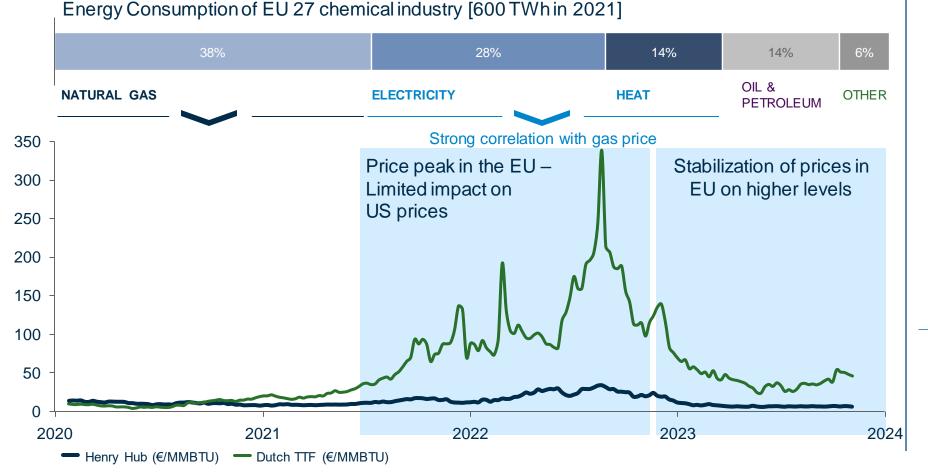
- Corona crisis and current downturn reflected by dropping orderbooks and export expectations
- During the Corona crisis, both indicators dramatically reduced in the classic "V-Shape"
- Since 2022, both indicators have fallen again – And continue to stay on weak levels

A fundamentally different crisis pattern is shown by the **continuous fall of orderbook** indicators from chemical players – **prolonged situation expected** 

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# European manufacturers face an increasing competitive disadvantage based on high and fluctuating prices of natural gas (almost 80% of energy costs driven by natural gas)

Energy consumption of European chemical industry



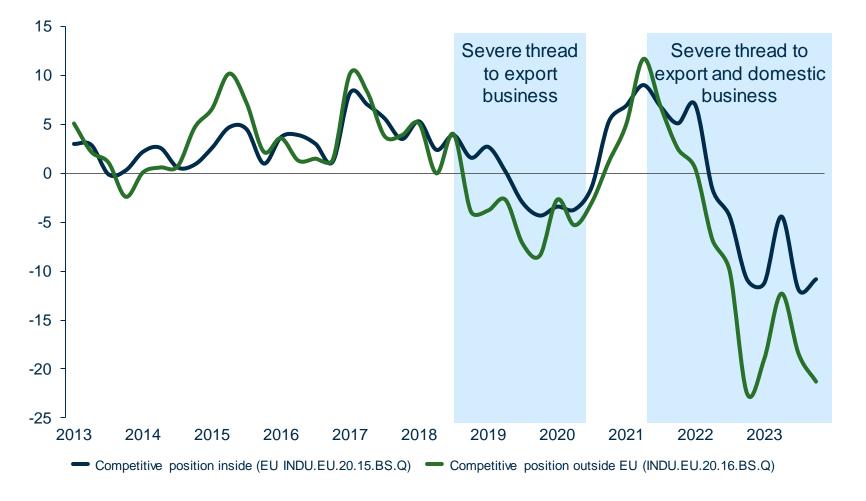
#### Comments

- 80% of energy consumption of chemical industry and its costs linked to natural gas pricing
- With beginning of the Ukraine war, Dutch TTF spiked tremendously – US Henry Hub increased at a much smaller magnitude
- In 2023, European gas price levels stabilized but continued to remain on a higher level compared to the US

High gas prices remain a disadvantage for European manufacturers further burdening competitiveness on a global level

# Intensified structural disadvantages also reflected in the industry's self-perception on its competitive position, especially outside Europe

EU Indicator for competitive position [by quarter; value based on index]



#### Comments

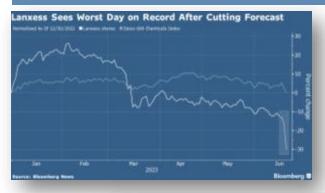
- In recent years, the competitiveness of chemical manufacturers for export business outside Europe is seen much weaker
- This trend has even intensified in the past 2 years
- However, most concerning is that these days European manufacturers even consider themselves as weak on the domestic European market

Long-term viability of European assets challenged from both business models – export and domestic sales

# We've seen a tough year for European chemicals manufacturers and we expect a continuation of this environment into 2024 calling for rigorous counter measures

Where do we stand and what's ahead?

#### Poly-crisis of chemical companies



Commodities

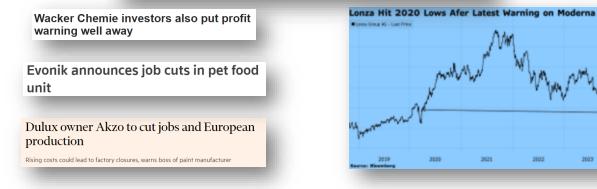
BASF cuts 2023 earnings guidance on weak industrial demand

BASF outlines further cost-cutting and 2,600 job losses as it downsizes in Germany

Chemicals maker Clariant misses profit estimates as demand slows

#### Energy crisis prompts further warnings by German chemical groups

Evonik and Covestro, which together employ more than 50,000 people, have both said profits will fall



#### Review of 2023 and outlook for 2024

#### Continuous worsening happened!

- 2023 has been **another challenging year** for European chemicals manufacturers
- Many players already launched larger performance improvement programs in 2022
- However, worsening of economic outlook in summer 2023
   led to multiple adjustments of earnings expectation

#### No improvement yet visible!

- First manufacturers initiate next level of cost containment measures
- No indications for upswing in 2024 visible

Rigorous counter measures to be initiated – Fast execution and focus on cash essential!

Source: Press Research; Alvarez & Marsal



### Fast execution and focus on cash essential



European chemical manufacturers need to establish short-term cash measures to legitimate long-term strategy execution and the creation of shareholder value

### We've seen a "summer of profit warnings" and an increasingly negative perspective on the coming months

How to respond?



#### CASH IS KING!

- 70 % of German chemical companies are committed to implement efficiency measures
- High degree of planned rigorous restructuring activities manifesting the need to secure cash

#### FLEXIBILIZATION IN COST STRUCTURE

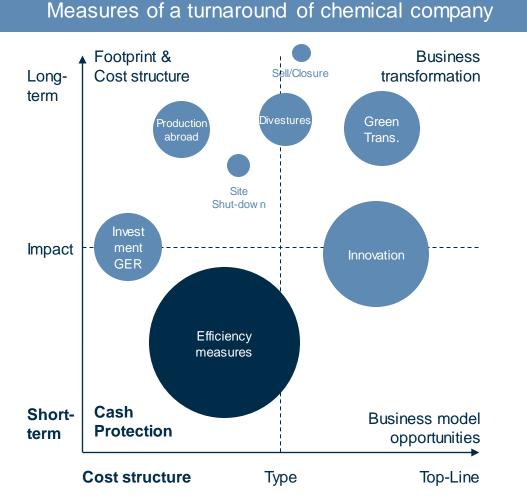
- Transform the asset base with flexibilization measure along the value chain
- Resolute execution and focus on the essentials will increase the resilience of the cost base

#### FOOTPRINT OPTIMIZATION AND RESILIENT ASSET NETWORK

- Long-term business models rely on pruned portfolio & asset network Review existing set-up with a focus on exploiting geographical opportunities and minimizing location risks

### Poly-crisis requires a holistic turnaround program – Currently, chemical players focus on cost elements and an increase in efficiency

Classification of planned measures in the chemical industry - based on VCI survey



#### Planned measures of German chemical manufacturers

| 70%  |                                     |  |  |  |  |  |
|--|-------------------------------------|--|--|--|--|--|
| 48%  | Intensification of innovation       |  |  |  |  |  |
| 30%  | Acceleration green transformation   |  |  |  |  |  |
| 27%  | Reduction of investments in Germany |  |  |  |  |  |
| 25%  | Relocation of production abroad     |  |  |  |  |  |
| 17%  | Divesture of businesses             |  |  |  |  |  |
| 9%   | Permanent site shut-down            |  |  |  |  |  |
| 4%   | Sell/Closure of entire business     |  |  |  |  |  |
| Rigor of planned measures in the chemical industry is high – <b>Focus on cost efficiency measures to secure cash</b> |                                     |  |  |  |  |  |

Note: The bubble size is indicative of the frequency in the survey Source: VCI; Alvarez & Marsal

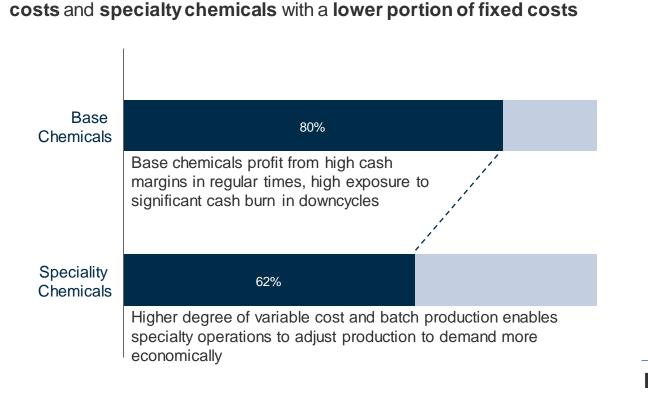
# Resilience in cost structure is build up stepwise – Securing cash lays the foundation for a flexibilization in cost structure followed by a long-term footprint optimization

#### Cost-side optimization in the chemical industry

| Three step cost-structure optimization |   |              | on  | Exemplary measures  |   |  |
|--|---|--------------|---|---|---|--|
| Short-<br>term                         | ▲<br><u>Step 1</u><br>Cash is King                                  |              |   | Step 1  | Working capital management, reduction of overhead spend, CapEx reviews, temporary shut-downs                          |  |
| Time of implementation                 | <u>Step 2</u><br>Flexibilization in cos                             | st structure |   | Step 2  | Flexible batch sizes, variable working shifts,<br>increase energy efficiency, cross-training of shop<br>floor workers |  |
| Long-<br>term                          | <u>Step 3</u><br>Footprint optimization and resilient asset network |              | Step 3  | Long-term sites shutdowns, optimized sourcing within the asset network, cost advantages by favorable production locations |   |  |
|  | low Resilience high   |              | Efficiency measures are multifold – Step-by-step approach puts focus on the essential and allows rigor in execution |   |   |  |

## EXAMPLE | A high fixed cost base beneficial in times of high utilization, but causes challenges in a lower demand environment

#### Fixed cost variabilization



Simplified cost structure comparison

Comparison – High volume base chemical operations with high fixed

#### Mitigation measures to achieve a variable cost structure

Levers to drive shift from a **fixed to a more variable cost structure** of chemical businesses

- Flexible workforce management
- Outsourcing of non-core functions (IT & maintenance)
- Variable production process with modular production units
- Energy efficiency measures
- Flexible supplier contracts and inventory management
- Investments in **automation** for quality control and increased process flows
- Activity based costing and elimination of non-value adding tasks

Flexibilization in cost structure achievable by stringent set of measures along operational value chain

Source: The Chemical Engineer; Alvarez & Marsal

Variable Eixed



# Alvarez & Marsal's capabilities for the chemicals industry



### A&M combines key attributes across Leadership, Value Creation and Execution

#### A&M's difference - what you get

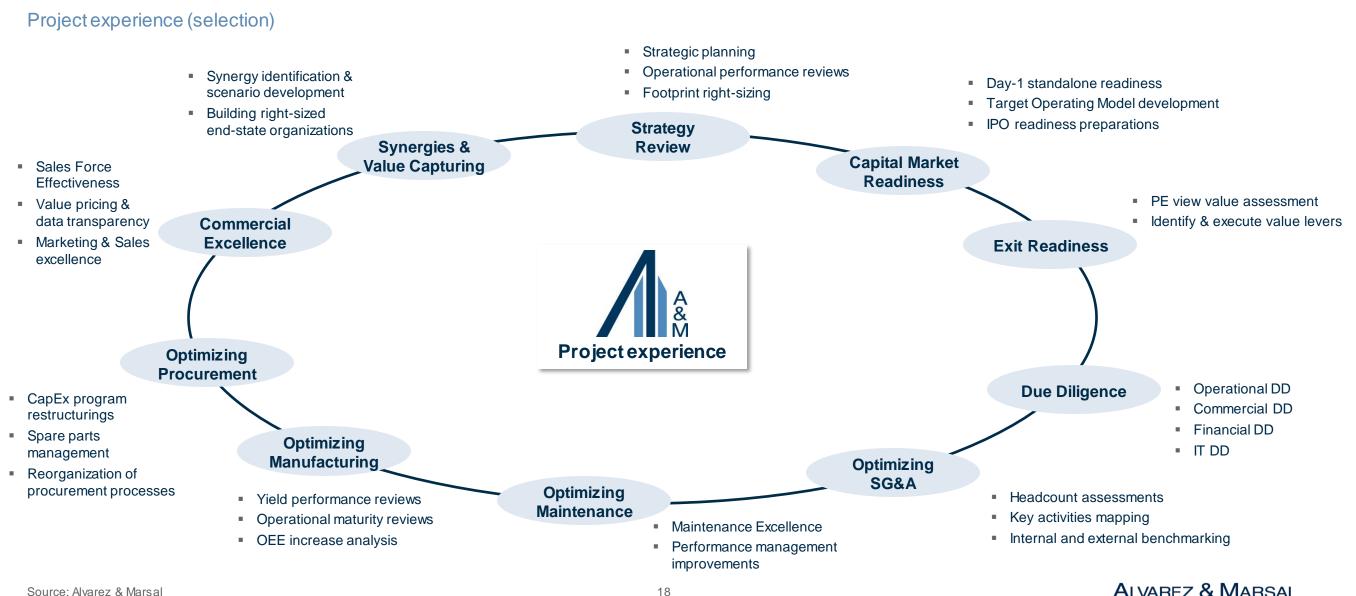


"What I like about A&M and why I keep engaging them is simple: they support me and Bayer to create value much faster than we could on our own. And it's actually nice to work with them given that they are very senior and experienced leaders who blend in seamlessly across the global Bayer matrix. They can successfully orchestrate and navigate our organization with all the benefits of being an outsider. They have a clear operator mindset and ensure that things get done in a pragmatic and efficient way. I can trust them that they transparently share the good, the bad and the ugly while always being solution oriented. To me they are both consultants and advisors, which I really value." Head of Strategy, BD&L and Board Member, DAX40 company "We appointed A&M as we wanted a firm that would make us all feel uncomfortable. Many of my board colleagues expected us to appoint 'the other lot', but we thought A&M were going to do the job that we actually needed. And I must say, at times A&M have made us uncomfortable, and we made the right choice."

CEO, FTSE100 company

Source: Alvarez & Marsal

### A&M brings relevant experiences in strategic and operational day-to-day areas of the chemical industry



LEADERSHIP. ACTION. RESULTS:

# We take a clear and unbiased view through an investor's lens on the chemical industry and its challenges – Transformational challenges ahead to create Shareholder Value

#### **Thought Leadership**

agmatic Zero-Based Budgeting in the Chemicals Sector: A Privat

#### Published on Alvarez & Marsal | Management Consulting | Professional Services (https://www.alvarezandmarsal.com)

uity Perspective

November 10, 2020

The chemicals industry has faced extraordinary challenges this year. COVID-19 has only added to a substantial to-do list for management teams already grappling with a climate and sustainability 'mega-trend' and the global drive to adopt Industry 4.0 technologies and methodologies.

The economic volatility created by the pandemic has posed significant economic challenges for some companies. Complex manufacturing operations mean that chemical producers must contend with high fixed costs related to labour as well as sales, general and administrative (SG&A) activities. In addition, between 60% and 70% of the cost structure of many chemicals companies is comprised of raw material costs

Although many businesses have seen some benefit from lower oil and gas prices and government support measures, the unprecedented disruption to global supply chains has caused real issues and will force companies and their sponsors to embark on redesigning target operating models. Post-crisis, organisations may also look to leverage opportunities leading from short-time work schemes that have revealed excess capacity across functions, which may not be needed in future or which may be redeployed elsewhere

It is important for private equity (PE) stakeholders to approach transactions with a robust plan for value creation. Zero-based budgeting (ZBB) is long-established as a valid framework for these activities. Our view is that a targeted Pragmatic-ZBB review car deliver impactful results at pace and can be customised to suit the requirements of either pre-deal diligence phases or post-deal integration and operationalisation

#### ZBB and chemicals transactions

Transactions in the chemicals space will differ from subsector to subsector. Our view is that certain subsectors - including healthcare, environmental, agriculture, food and (potentially) construction - are likely to outperform as economies rebuild and respond to COVID-19.

It is also important to understand the types of deal that are foremost in stakeholders' plans. With large corporations taking stock of their options and considering asset divestments, carve-outs are attracting a high degree of interest at present. A practical ZBB approach has proven to be a valuable tool that can ensure a right-sized target and prevent organisations becoming burdened by non-essential resources.

There is a classic laundry list of cost reduction and value creation opportunities in this context, the majority of which hold true for chemicals companies. There tends to be more limited flexibility for savings in broadly efficient manufacturing functions, and optimising labour costs can require significant capital expenditure. As such, SG&A opportunities are normally prioritised: this might

#### PRIVATE EQUITY PERFORMANCE IMPROVEMENT Dealing With Uncertainty in the Chemicals and Materials Sector

The Chemicals and Materials sector is facing a Adding to that, the energy crisis in Europe has left new set of uncertainties related to impacts from local producers uncompetitive, with some having to shut down for the short term and others looking for the pandemic, geopolitical turmoil and economic disturbances. Rising prices and disrupted supply alternative options. hains have also put pressure on companies within

In this period of uncertainty, companies need to ensure their internal capabilities are nimble enough to meet the challenges.

This paper details some of the current trends in the sector, potential pathways in the near future and what industry leaders can do practically to prepare for even more uncertainty.

#### The Economic Challenges Facing the Industry

#### We are looking at a potential abrupt turn in growth Commodities and Shipping Since 2018

and demand, owing to slowing of the economy. Commodities are still elevated compared to the end he actions that many companies took during this of 2018 and beginning of 2019. Some are as much high growth COVID recovery phase will, on one as 50 percent higher, and natural gas remains a hand, ensure better company performance going whopping 200-plus percent higher over that time forward but will also require companies to change their mindset from a "growth at all costs" to a "cost span. Except for natural gas, which has been affected by various issues including a big drop in roduction in 2020, weather phenomena and the Russia-Ukraine war, particularly in Europe, all other commodities, have been on a downward trajectory Inflation while still strong appears to have faller since June. Food and building construction-driven in late summer/early fall. A "roll-over hypothesis commodities although still elevated, are also on appears to be supported by the U.S. Producer a downward trend. Hurricane lan, however, may Price Index (PPI) for July and August, which cause a temporary upswing in building materials was down 0.5 percent after a string of monthly before the downturn resumes. increases that totalled a 5.8 percent rise over the

Inflation has been driven by a combination of supply side constraints in energy and other commodities due to geopolitical events and demand growth due to increases in personal consumption. But before we review the forecasts, let's look at what has happened in commodities that are driving much of the feedstock costs for Chemicals companies.

the industry

economy settles.

and cash discipline" focus

Inflation

ast 12 months

Much has changed in the past year. The industry

potentially cash deficient reality in some parts of the

Chemicals industry, and companies that struggle

now will have a greater challenge ahead as the

has moved from a high growth posture to a

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MÄRKTE · UNTERNEHMEN





August 21, 2023



Chemical businesses are one of top three carbon-emitting industries, and among the most difficult to decarbonise. There is, however, growing pressure on companies to quickly find routes to a low carbon future. Emissions disclosure is becoming stricter with the focus shifting to indirect upstream and downstream emissions (Scope 3), which for chemicals represent around 75% of their total emissions

The sector is also contending with numerous short-term challenges as it embarks on this journey. Crippling energy prices, price volatility and cooling consumer demand are compressing margins, forcing many companies to resort to significant cost passthrough to customers. Others have taken emergency measures, including the temporary shutdowns of factories. However, these obstacles should not delay the implementation of sustainable decarbonisation solutions: failing to act now can put a company's long term competitive position in risk

#### Thinking creatively about decarbonization strategies

Because of the industry's carbon intensiveness, initiatives to cut emissions often involve a complete rethink of energy supply strategies and require large capital investments. These decisions are complicated by the fact that chemical businesses operate in a highly competitive and commoditised international market, where any increase in operating costs can put a company at a significant disadvantage. Furthermore, while a company may be prepared to look through the short-term risks, it often doesn't have the balance sheet strength to invest in a dedicated renewable energy supply chain.

Given these challenges, companies must think innovatively about decarbonisation and how to use vertical integration, cross sector

and supply chain joint ventures as well as partnerships with financial investors to achieve their energy transition objectives.

#### Investment in clean energy supplies at the core

While a lot of uncertainty remains about the future costs of the energy system in the net-zero economy, one thing that is clearer is that they will no longer be determined by global prices. Instead, the development of national "green" power systems will be the major influence on the availability and price of low-carbon energy.

Industrial policy plays a key role here: a case in point is the US' Inflation Reduction Act, a huge green energy subsidy package that is expected to boost investment in carbon-free power generation, with the potential to bring renewable energy costs below those of fossil-based sources. In countries with less advanced renewable strategies, costs are likely to remain high for some time.

In this new environment, developing exclusive access to local green energy supply becomes critical for competitiveness. The move allows companies greater control of the cost base and enhanced supply chain resilience, setting businesses apart from other players in the market.





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