



The oil & gas valve industry in Italy

BUSINESS STRUCTURE, PERFORMANCE AND RECENT TRENDS 2023 Edition









→ Executive Summary

- → Business Structure & Italy's role in the European valve industry
- → International trade and Italy's export performance
- → A focus on O&G investment perspectives



The oil & gas valve industry in Italy | Executive Summary

As pointed out by the most recent available data, with more than 210 enterprises, 9.300 employees and 2,7 billion of euros of turnover, the Italian industry of Oil & Gas Valves retains its position among the top sectors of the Italian manufacturing

Two-thirds of the national production of valves is carried out in Lombardy, where Bergamo plays a pivotal role: the province alone accounts for more than 100 enterprises operating in valves production, which allow its industry to contribute as a "key player" (1,4 billion, almost 5 thousand employees, 4,2% of the regions' total) to the achievements of one of the regions with the highest manufacturing vocation.

The journey towards recovery in energy-related sectors after the pandemic has proven to be lengthy and gradual, and the O&G Valves sector is no exception. In fact, by 2021, the Italian companies in this sector were still struggling to close the gap with pre-pandemic levels, with production value standing at 600 million euros (-18%) below the 2019 levels. The sector also faced challenges in terms of business demography, experiencing a reduction of 16% to 18% in the overall number of enterprises and employees. Nonetheless, things improved considerably in the past year.

Back on track from 2022: three years after the onset of COVID, Italian exports have made significant strides towards recovering to prepandemic levels. Remarkably, the Italian O&G Valves Industry has maintained its 2019 position as the world's third-largest exporter, trailing only China and Germany. Moreover, Italian companies overperformed or at least achieved comparable outcomes to their competitors in 54 markets, accounting for 39.6% of total O&G Valves exports. In spite of that, there should be pointed out that the outcome of Italian exports in regions such as the Far East and, primarily, MENA markets resulted far less positive.



The oil & gas valve industry in Italy | Executive Summary

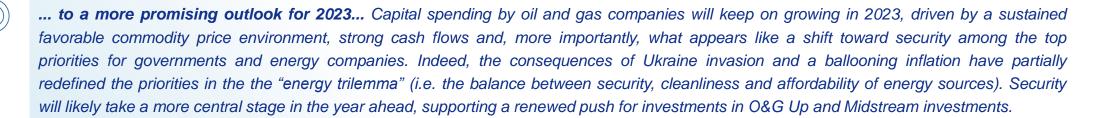
Specifically, the country that contributed the most to hindering the performance of Italian companies abroad is Saudi Arabia. Export of Italian O&G Valves slumped more than 30% in 2022, compared to pre-pandemic levels. The relative weight of the Country, on the total of Italian exports, significantly decreased (by 2.5 p.p.) between 2019 and 2022, mostly to the advantage of China. China growing ties with Saudi Arabia (which received the largest share of Belt and Road Initiative, BRI, energy investments in 2022) are likely to have played a major role behind the booming flow of Chinese O&G Valves. A regulatory framework that rewards companies operating within the country could also have contributed to reduce the competitiveness of Italian O&G Valves in the Saudi market.

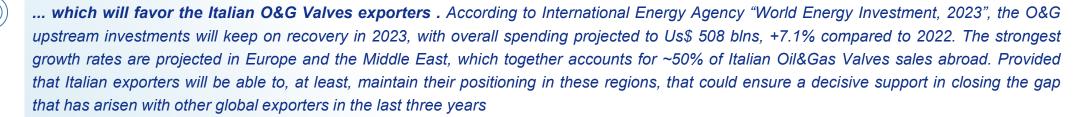
Reshoring/Friendshoring at play? The best results in terms of export growth have been achieved in geographically close markets, primarily in Western Europe, where Italy has outperformed its competitors in the top commercial destinations. Several factors (such as the impact of ballooning freight costs) could have positively affected the performance of Italian companies. Furthermore, it cannot be excluded that, in the wake of Ukraine conflict and growing tensions between China and Western World) Italian exports to Western Europe could have also found support in a greater reliance on "friendshoring" (a trade practice where supply chain networks are focused on countries regarded as political and economic allies) as a strategy to reduce the supply chain risk.

What to expect now? From the (bleak) recovery of 2021-'22... a year of exceptionally high energy prices hasn't proved enough to push a boom in investments, still below the pre-pandemic in 2022. Indeed, as confirmed by an analysis on the balance sheets of a pool of major O&G companies, while higher prices triggered an unprecedented increase in revenues and margins in 2021-'22, they failed to drive the capital spending (CAPEX) above the 2019 levels, as the windfall profits were mostly used to reward shareholders and share buybacks.



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The Italian industry of tapes and valves

A core sector of Made in Italy IM&E industry (2021)

		Number of enterprises		Production value (€ blns)		Number of employees	
	Oil & Gas valves		213		2,7	i i i i i i i i i i i	9.300+
	Oth. industrial valves*		531		4,6	i i i i i i i i i i i i i i i i i i i	13.600+
₩	Household taps		282		1,5	iiiii	4.900-
TOTAL	Tapes & Valves		1027		8,8	† † † † † † † † † † † † † † † † † † †	27.997



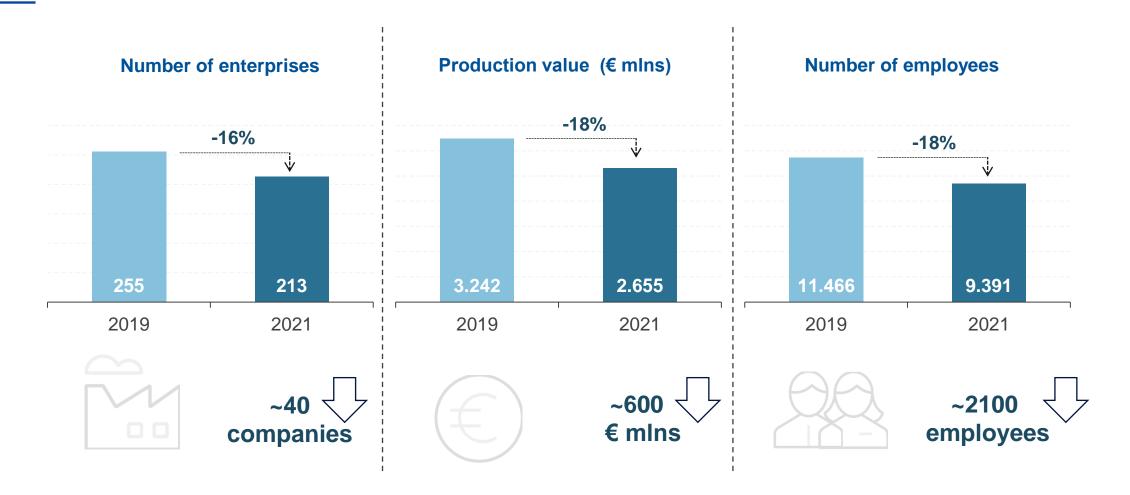
Source: Prometeia's calculation on ISTAT data and Companies balance sheets

^{*} Hydraulic valves, valves for food & beverage industry, valves for pharmaceutical industry, etc.

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The Italian oil and gas valve industry after Covid

Structural changes: a 16-18 % loss in business demography and production value

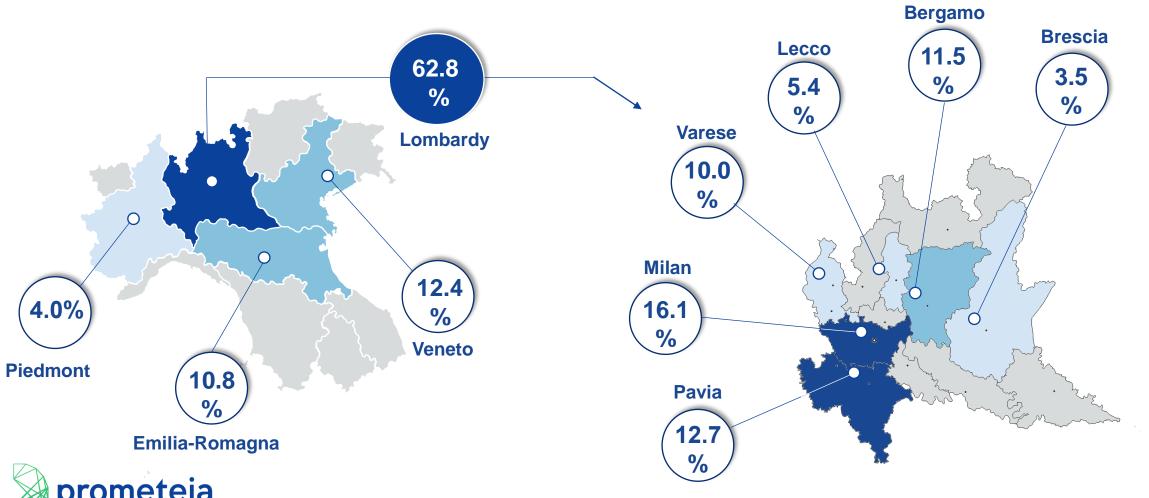




The O&G valve industry in Italy

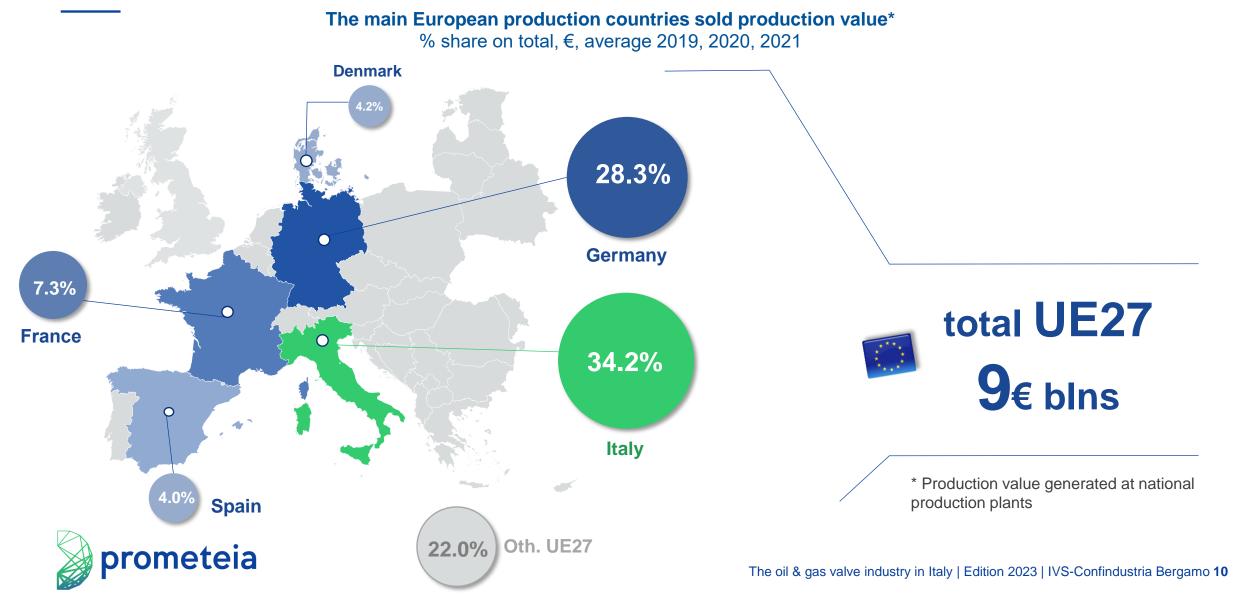
65.5% of the Italian production is concentrated in Lombardy

The map of territorial specialization: % share of the Italian production value (2021)



The O&G valve industry in Europe

Italy is the European leading manufacturer of O&G valves (over 34% of EU Tot. Production)



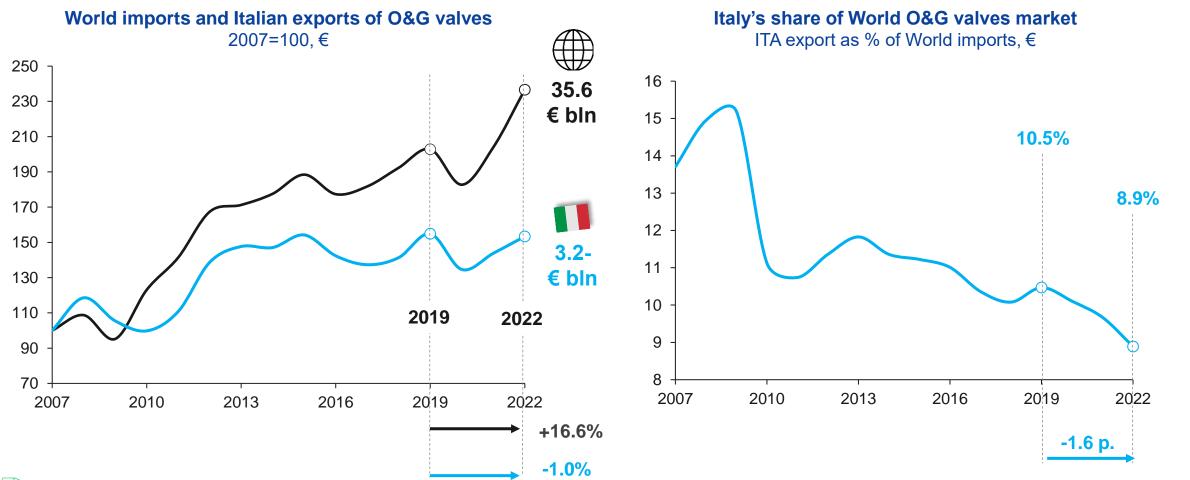
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Italy in O&G valves global trade | the recovery goes on

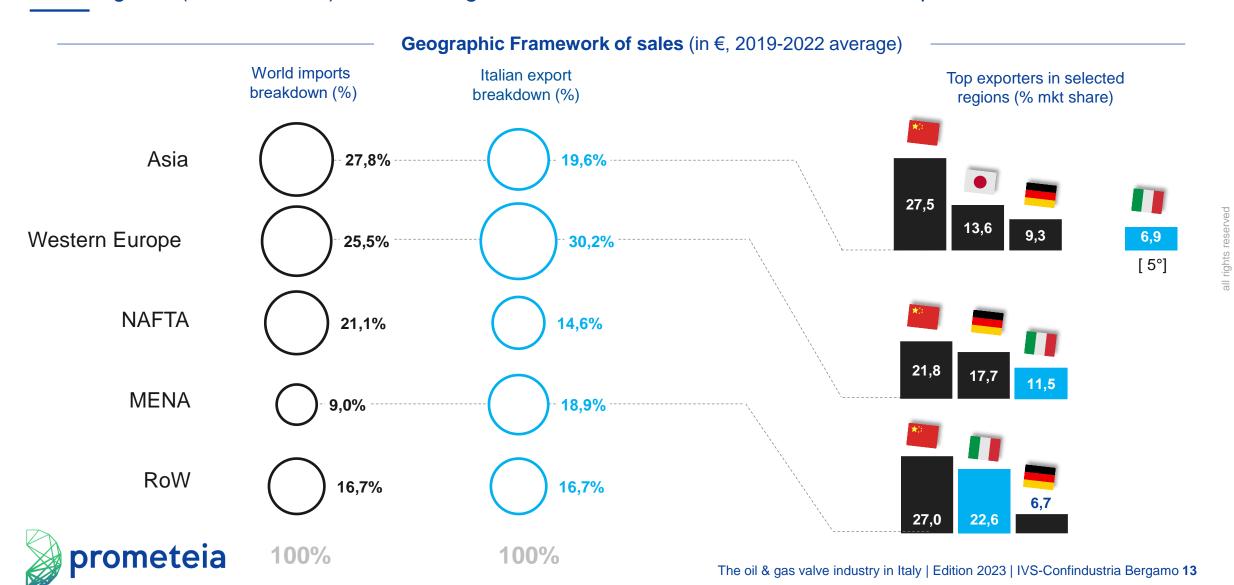
Italy's valves export maintained a positive momentum in 2022 and filled the gap with pre-pandemic...

... albeit leaving on the ground approx. 1.6 point of export market share



Italy in O&G valves global trade | structure and positioning

A leading role (behind China) in MENA region, third in rank in the core Western Europe market



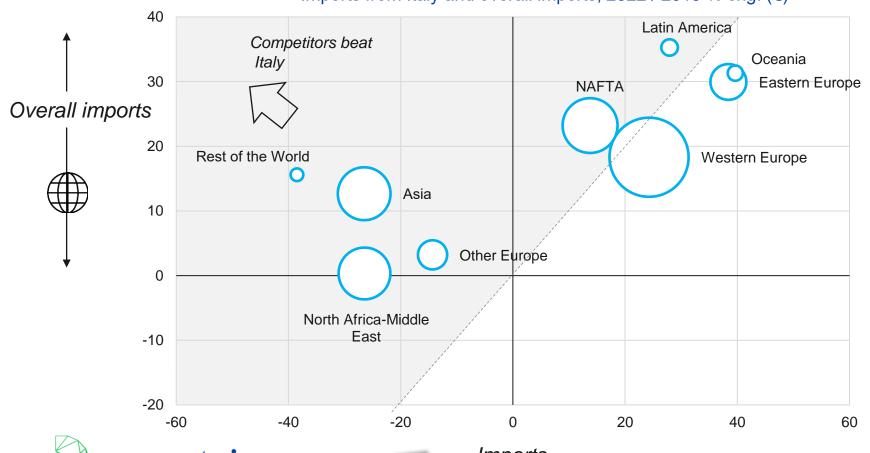
Competitive O&G valves landscape | a mixed performance for Italy

Italy increased its share of European Mkts (both Eastern & Western)...

... but lost ground in MENA & Asia Markets

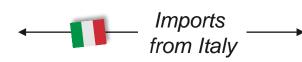
World imports and Italian exports of O&G valves in the last 3 years

Imports from Italy and overall imports, 2022 / 2019 % chg. (€)



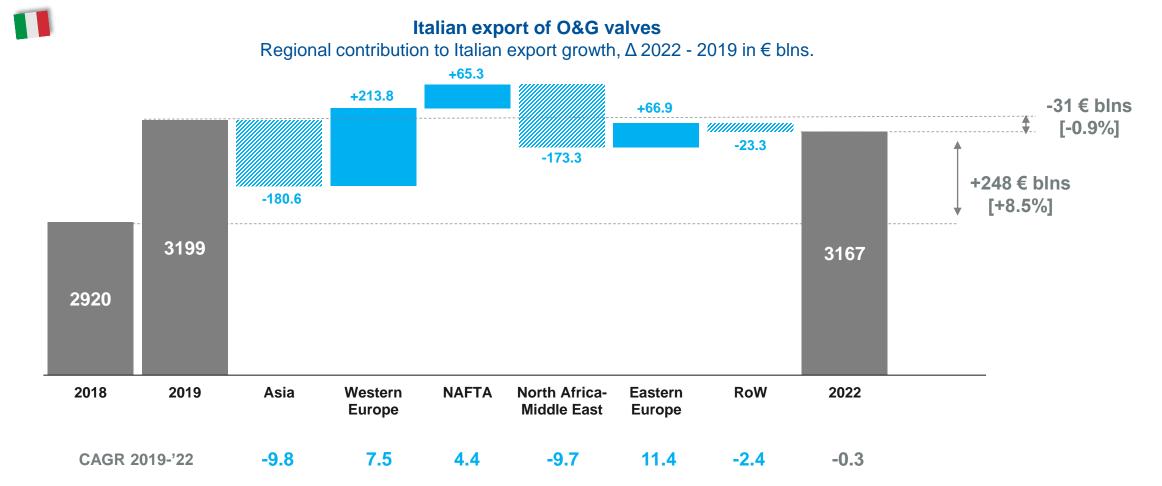
Each bubble size is proportional to the weight of the region in overall ITA export





Markets contribution | NAFTA & Europe underpinned the recovery

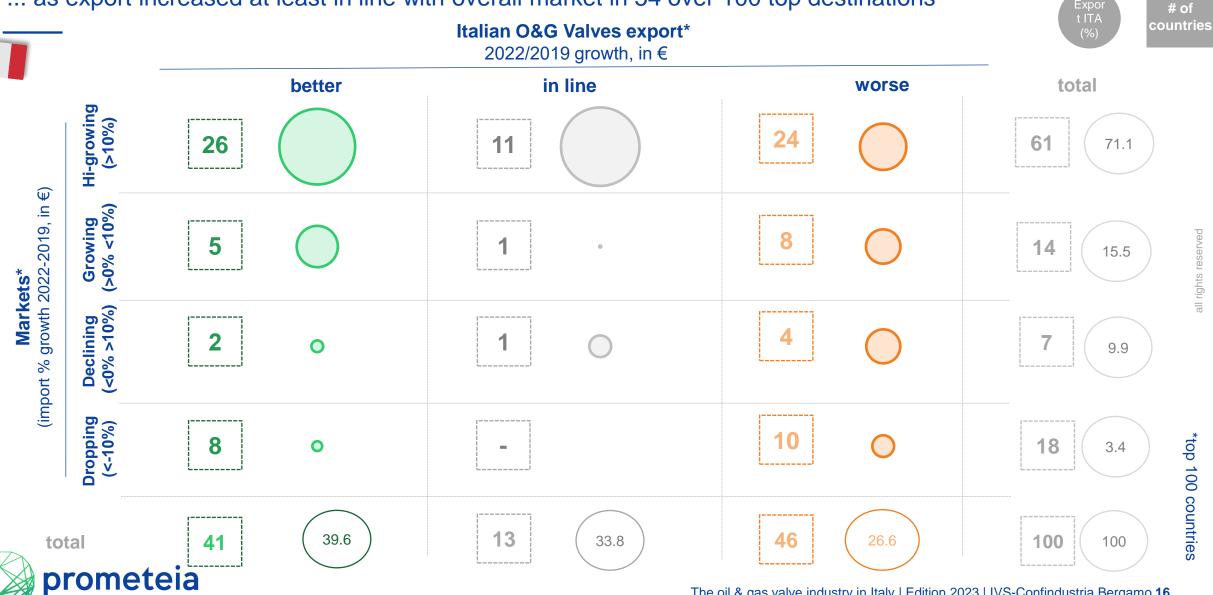
Overall sales almost close the gap with pre-pandemic in 2022 (-0.9%)... +8.5% from 2018 levels





Italy maintained competitiveness in global O&G Valves markets

... as export increased at least in line with overall market in 54 over 100 top destinations



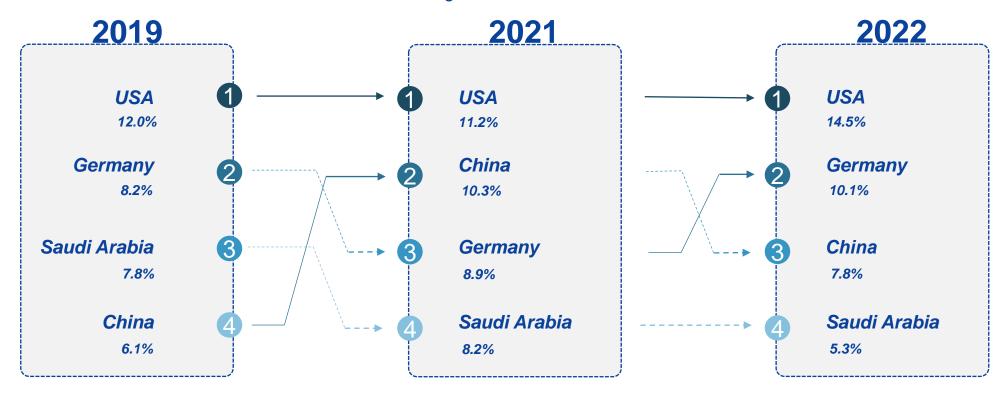
Italian O&G valves export: a fast-changing & concentrating landscape

USA reaffirmed its position in 2022, Germany overcame China and placed second in the rank ...

... Saudi Arabia lost ~3 p.p of share among the top recipients of ITA O&G Valves

Italian O&G Valves export by destination

in €, ranking and mkt share



Top 4 markets accounted for **37.7%** of Italian export value in 2022...



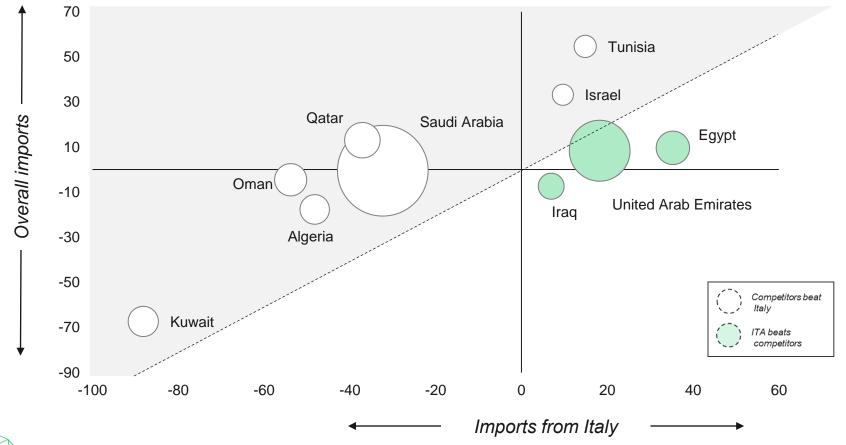
... 3.5 p.c. point more than in 2019 (**34.1%**)

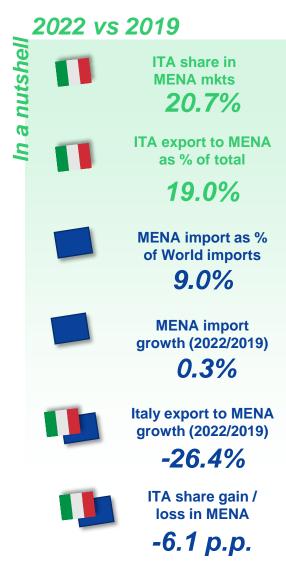
In depth | Middle East and Northern Africa (MENA) (1/3)

Underperformance in the (challenging) Saudi market explain a large part of the competitiveness loss of Italian O&G companies

MENA imports and Italian exports of O&G valves: 2022 / 2019

% chg. and market size for Italy (avg. 2019-2022), top-10 markets







= 20 € mIns

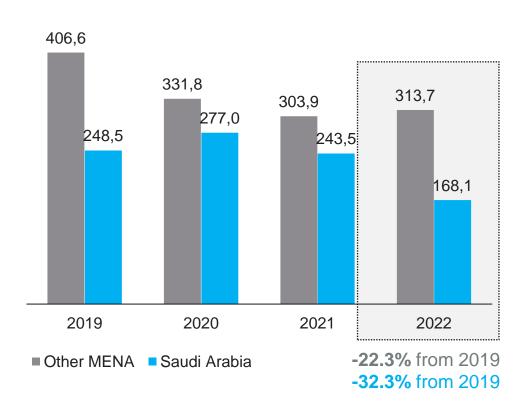
Bubble size is proportional to the market relevance for Italy

In depth | What happened to Saudi Arabia?

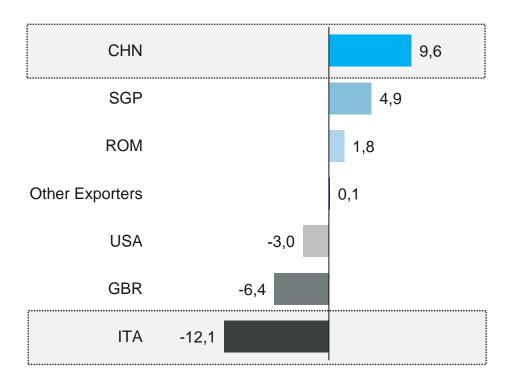
The impact of OPEC+ oil production cuts doesn't entirely explain...

... the magnitude of the loss of ITA share (to the advantage of CHN)

Italian O&G Valves export in MENA region in € mlns



Saudi Imports of O&G Valves, contribution to growth in € mlns, 2022 vs 2019



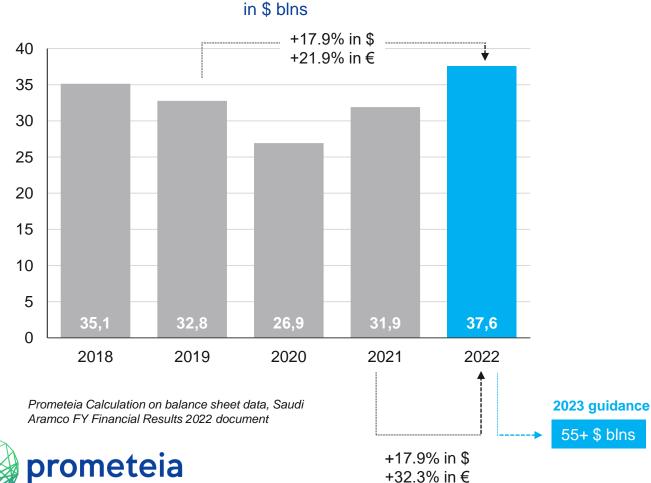
Overall Saudi Imports of O&G Valves in 2022: **-5.1%**



In depth | What happened to Saudi Arabia?

China growing ties with Saudi Arabia (which received the largest share of BRI energy investments in 2022) likely played a major role behind the booming flow of Chinese O&G Valves

Saudi Aramco, 2022 CAPEX



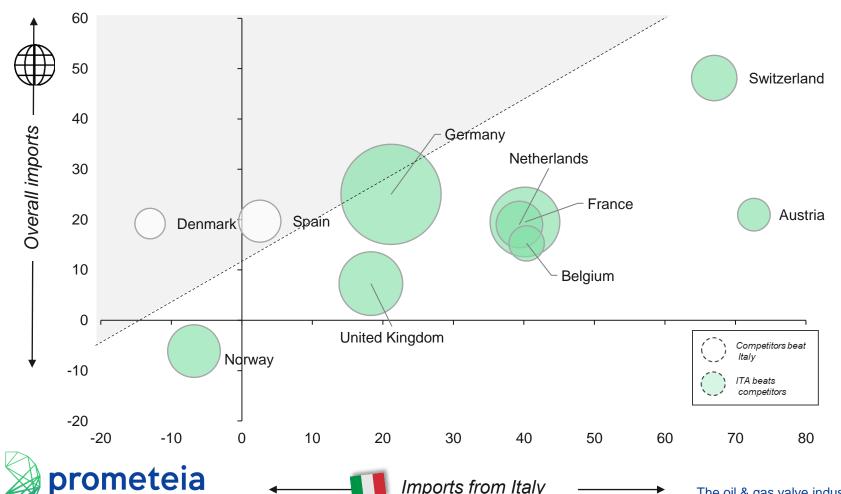
- → Oil and gas construction engagement amounted to \$ 6.8 billion (51% of Chinese energy construction abroad) and \$ 4.8 billion in investments (60% of Chinese energy investments abroad).
- → Gas-related investments reached their 2° highest level in the history of the BRI at \$ 4.8 billion i.e. to 60% of China's energy investments, driven by a \$ 4.6 billion investment in Aramco Gas Pipelines Company in Saudi Arabia. Saudi Arabia was the country that received the most energy engagement in 2022 (\$ 5.4 billion), followed by Argentina.
- → China's engagement in oil-related projects in the BRI represent ~17% of total Chinese energy engagement in the BRI, amounting to about \$ 3.6 billion in 2022

In depth | Western Europe (2/3)

Italy: overperformance in almost every market of the region

Western Europe imports and Italian exports of O&G valves: 2022 / 2019

% chg. and market size for Italy (avg. 2019-2022), top-10 markets



ITA share in **WEU mkts** 11.5% **ITA** export to WEU as % of total *30.2%* WEU import as % of World imports 25.5% **WEU** import growth (2022/2019) +18.3% **Italy export to WEU** growth (2022/2019) +24.3% ITA share gain / loss in WEU +0.6 p.p.

2022 vs 2019

a nutshell

= 36 € mIns

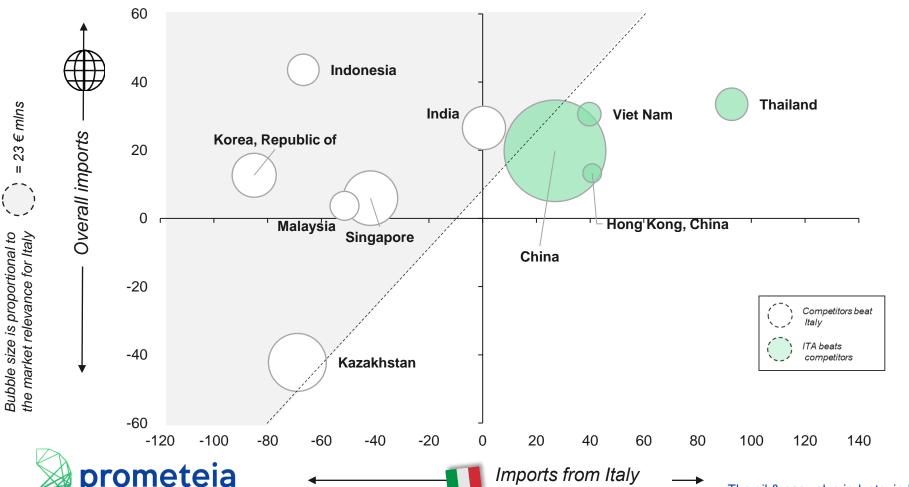
In depth | Far East (3/3)

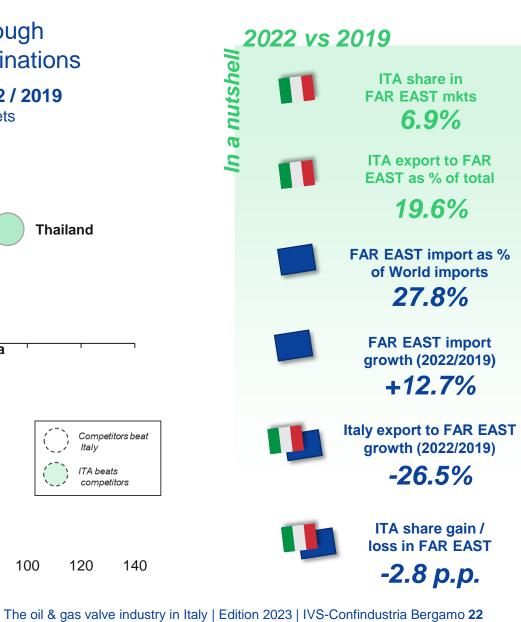
= 23 € mIns

The positive performance in the Chinese market hasn't prove enough ... to offset the loss in other relevant Asian destinations

Far East imports and Italian exports of O&G valves: 2022 / 2019

% chg. and market size for Italy (avg. 2019-2022), top-10 markets

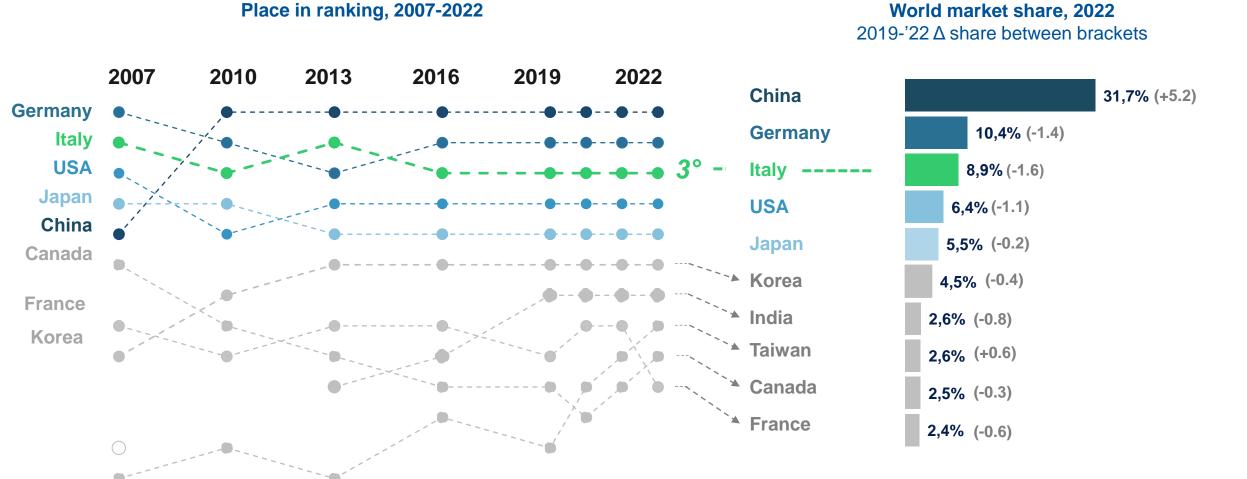




World top exporters of O&G valves

rometeia

Italy still holds the third place in global exporters ranking, behind China and Germany



World top-10 exporters of O&G valves (€)

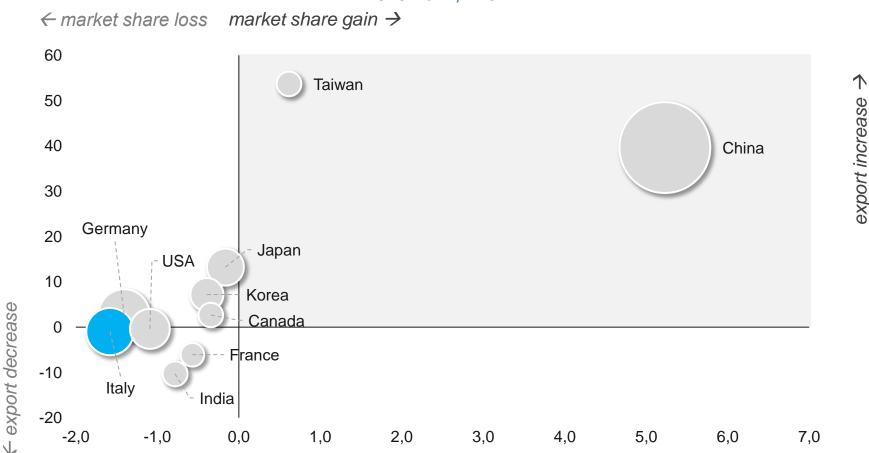
Italy and its competitors in the aftermath of pandemic

China & Taiwan alone in the "bright quadrant" the other top exporters (Italy among them) ...

... failed to increase their mkt share

Export growth and world market shares by world leading exporters

2019-2022, in €





Export value % change

2019-2022

Absolute changes in mkt share of World exports (2019-2022)

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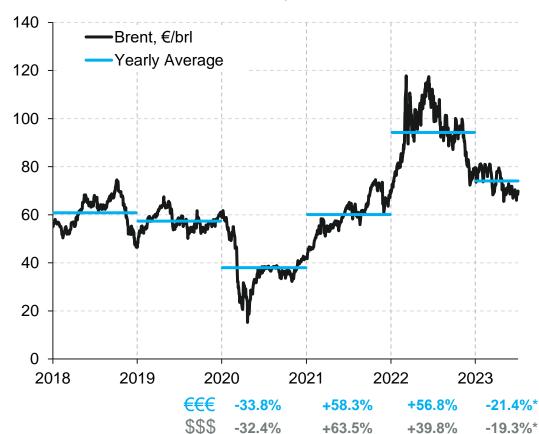


2022: a year of exceptionally high energy prices ...

Ukraine conflict added another layer of tension to an already complex and volatile situation

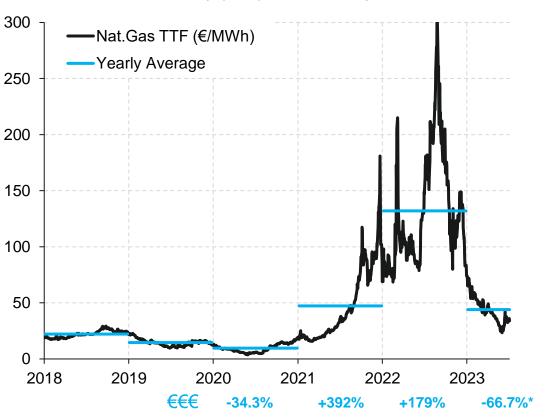


Brent, 1° futures position, €/brl, daily quotes

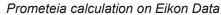


Natural Gas Price (Europe)

Dutch Title Transfer Facility (TTF), €/MWh, daily quotes



* jan-jun average

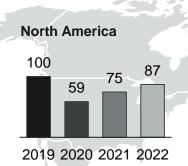


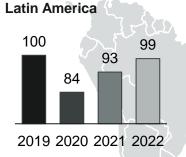
... hasn't proved enough to push a boom in investments: both for oil...

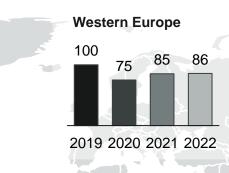
Middle East the only bright spot in an otherwise bleak scenario for oil industry

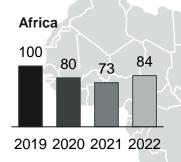
World Oil* investment map

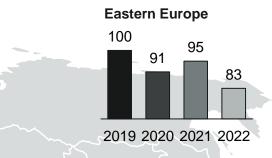
2019=100, in \$ blns at current prices

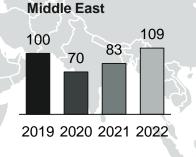


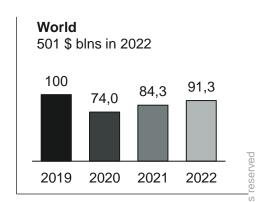


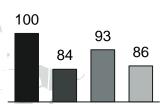












2019 2020 2021 2022

Asia-Pacific

* Upstream + Midstream IEA, World Energy Investment 2023

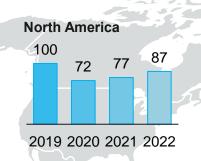


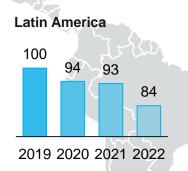
... and natural gas supply

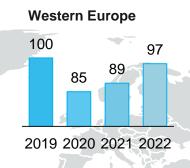
2022 natural gas investments rose above the pre-pandemic levels in ME, APAC

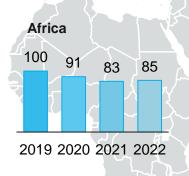
World Gas* investment map

2019=100, in \$ blns at current prices

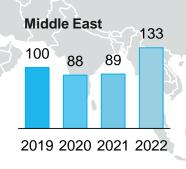


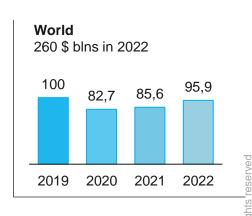


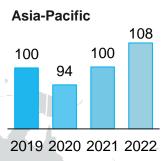












* Upstream + Midstream IEA, World Energy Investment 2023

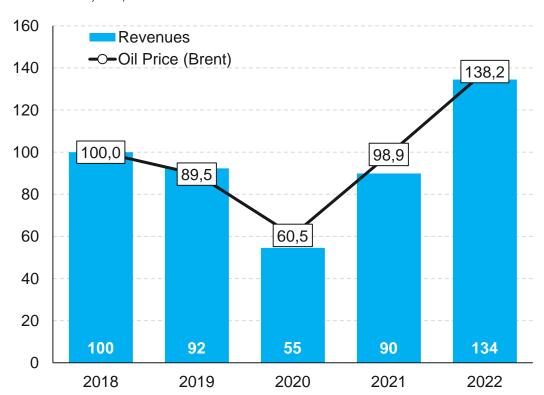


Indeed, while higher prices triggered an unprecedented increase in revenues ...

... and profits, for upstream and midstream International Oil Companies (IOC's)*

EBITDA / Revenues ratio of our sample rose to an impressive 27.9% in 2022

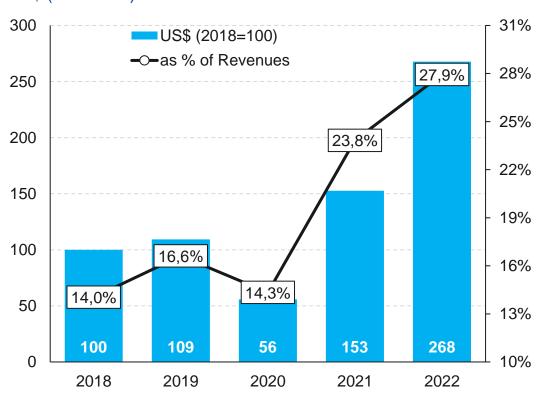
Selected Western O&G companies* revenues + oil price 2018=100, in \$



* Hess, Pioneer, ExxonMobil, Marathon, Occidental, Chevron, Chesapeake, ConocoPhilips, EOG, Woodside, Suncor, ENI, Galp, OMV, Total, BP, Shell, Aker BP, Equinor. Prometeia Calculation on balance sheet data.

Selected Western O&G companies* EBITDA

in \$ (2018=100) and % of Revenues





... they (until now) failed to drive the capital spending above the 2019 levels

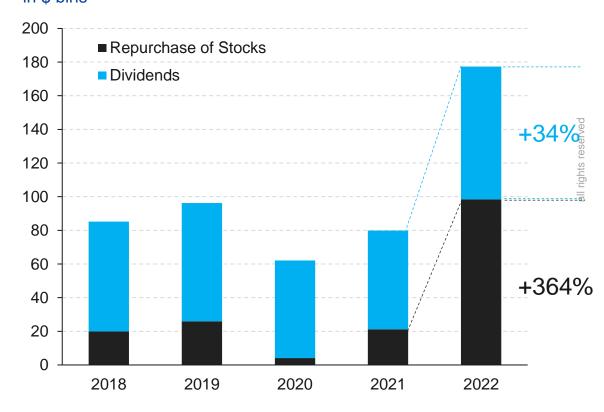
... as O&G IOCs mostly used their windfall profits to reward shareholders and share buybacks...
... CAPEX (albeit recovering) remained below the pre-pandemic

Selected O&G companies* CAPEX



* Hess, Pioneer, ExxonMobil, Marathon, Occidental, Chevron, Chesapeake, ConocoPhilips, EOG, Woodside, Suncor, ENI, Galp, OMV, Total, BP, Shell, Aker BP, Equinor. Prometeia Calculation on balance sheet data.

Selected O&G companies* Financing Activity: Buybacks + Dividends in \$ blns



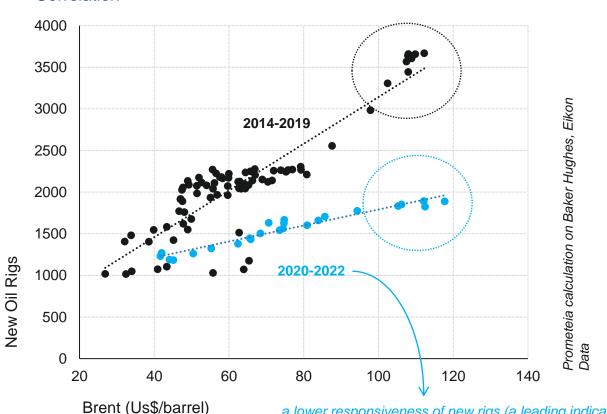


Not surprisingly, upstream investment proved less responsive to price...

... than in the past. In 2014-2019, a 100 \$/barrels price associated with at least 3000+ new oil rigs...

... over doubling those observed in 2022

Global Oil Rig Count and Crude Oil PriceCorrelation



What hindered the recovery in O&G investment?

- Uncertainty about global oil demand, supply dynamics, and geopolitical factors contributed to the price fluctuations, making it difficult for companies to plan and invest with confidence
- II. <u>Capital discipline</u>: The industry faced pressure to prioritize shareholder returns and profitability, leading to cost-cutting measures and a focus on capital efficiency. Companies were more selective in their investments, prioritizing projects with higher returns and lower breakeven costs.
- III. ESG Standards Concerns about climate change, environmental regulations, and growing investor pressure to address sustainability issues led to a cautious approach in O&G investments.
- IV. More recently, **higher interest rates** impacted on the attractiveness of investments, particularly for capital-intensive projects with long payback periods, such as offshore drilling or large-scale infrastructure developments.



a lower responsiveness of new rigs (a leading indicator of demand for products used in drilling, completing, producing and processing hydrocarbons.) to oil prices suggests that, compared to the past, O&G industry require a higher oil price to incentivize investments in oil-related projects

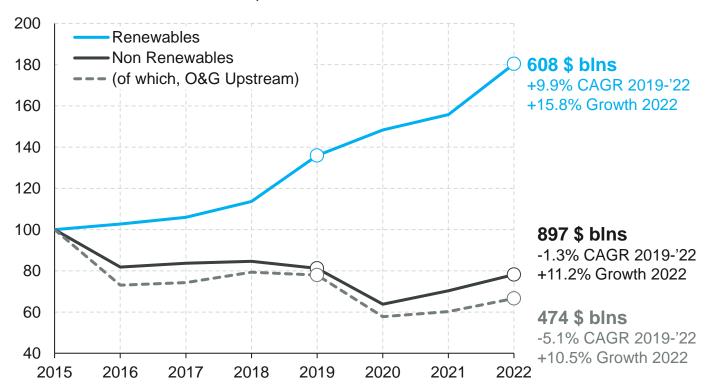
... while renewables continued to attract the bulk of new investments in 2022

The recovery from the pandemic and the response to the global energy crisis ...

... further boosted the global investments for clean energy

World energy investments, 2015-2022

2015=100, in \$ blns at current prices



Prometeia calculations based on IEA, World

Energy Investment 2023

Factors behind the booming investments in renewables

- Favorable economic and political environment (policies and incentives to support the development and deployment of renewable energy sources)
- II) Growing attention to ESG standards (incorporation of ESG factors into the decision-making process)
- III) Widespread popular support: increased demand for clean and sustainable energy sources led by concerns about climate change and air pollution.
- IV) Changing Dynamics in the Oil and Gas Industry, as many companies have set renewable energy targets, invested in renewable projects, or acquired renewable energy companies

These factors combined have led to a **significant increase in renewable energy investments** in recent years, allowing renewables to dominate the energy investment landscape. This trend is likely to continue as the world transitions towards a more sustainable and low-carbon energy system.



Energy Security vs Energy Transition vs Discipline: towards a shift in energy trilemma?

Global O&G investment recently picked up...

... as the focus shifted to energy security and majors dialed down their plans to reduce their production

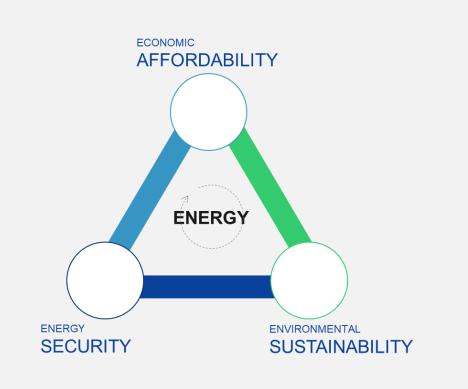
The energy trilemma

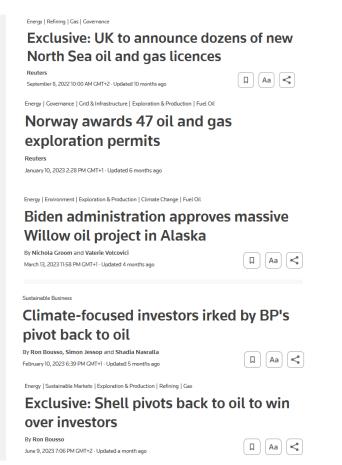
The Energy trilemma summarize the three interconnected (and often competing) dimensions that policymakers need to consider when making decisions about energy systems.

Security: ensuring a reliable and uninterrupted supply of energy to meet the needs of individuals, businesses, and industries.

Sustainability: enabling the transition towards cleaner and more sustainable energy sources + reduce greenhouse gas emissions

Affordability: ensuring the accessibility and affordability of energy for individuals, businesses, and industries.





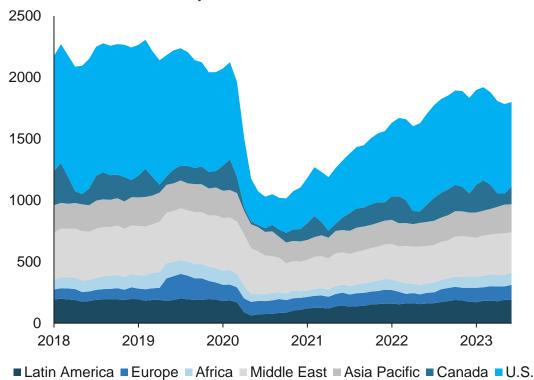


Recent developments in O&G E&P activity

Overall drilling activity +5.5% y-o-y in June, still 17.3% below the 2019 average

Global Oil Rig Count

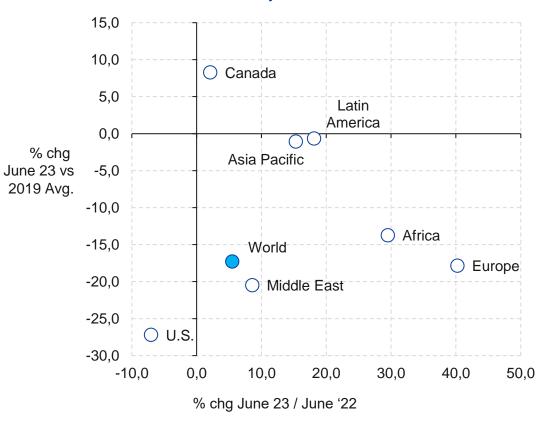
of active drills, monthly data until June, 2023



Prometeia calculation on Baker Hughes Data

Global Oil Rig Count

of active drills, monthly data until June, 2023

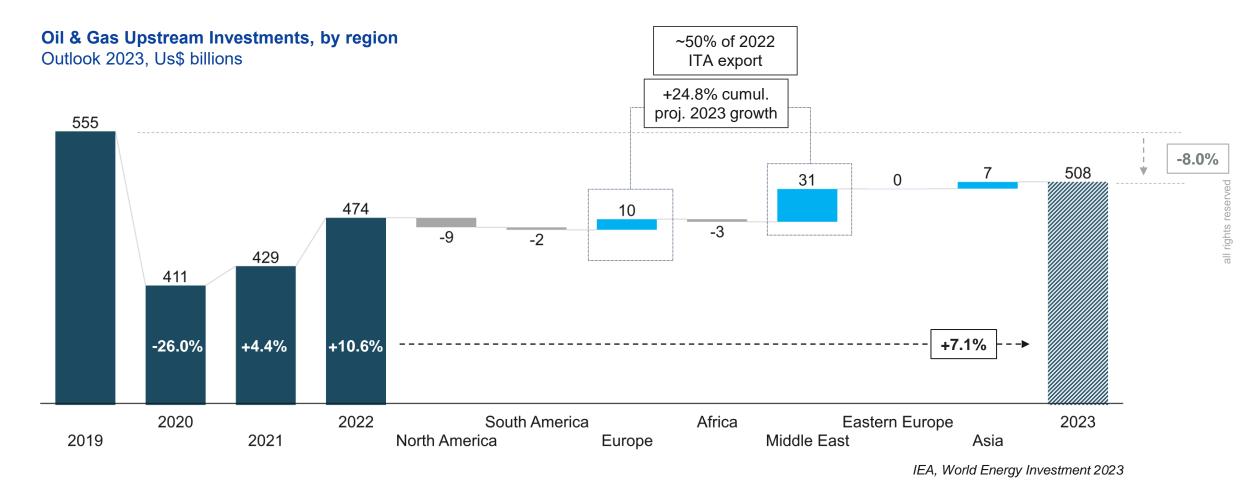




2023 Upstream Outlook: still increasing (at slow pace). Italy well positioned

Middle East and Europe (accounting for ~50% of ITA sales abroad) to attract the bulk of new investments in 2023...

... with overall spending projected to Us\$ 508 blns, +7.1% compared to 2022 (still 8% below 2019)





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