Oil, Gas and Other Forms of Energy

Bayes Business School – Biennial Meeting

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Agenda



Section 1	Investment Climate in the Energy Sector
Section 2	Capital Availability in the Oil & Gas Markets
Section 3	ESG and Investments into Oil & Gas
Section 4	Offshore Wind: a New and Growing Important Energy Source





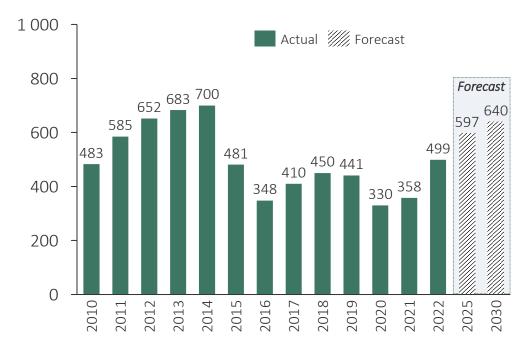
Investment Climate in the Energy Sector

1 | Upstream O&G investment has decreased overall but rebounded in 2022

Investment has rebounded by c.40% to 500bn in 2022 but half of these increases are absorbed by rising costs

Global Upstream Oil and Gas Investment

in USD bn ⁽¹⁾



Capex has rebounded

• Capital spending by oil and gas companies rebounded by 39% in 2022 to \$499bn, the highest level since 2014

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- Windfall gains in 2022 have led to increase investments but only Middle Eastern NOCs are set to spend meaningfully more in 2023 than they did at prepandemic
- Almost half of the investment increases are absorbed by inflation and rising costs

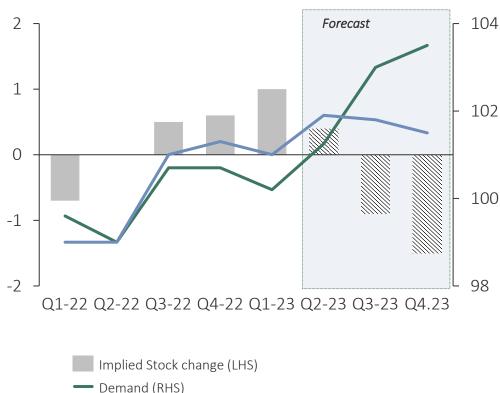
Drivers shaping O&G investment considerations:

- Operational excellence to drive productivity and cost efficiency
- Low emission intensities and energy transition priorities
- Partnerships and strategic alliances into new capabilities (e.g., since 2020 750+JVs were formed with players in the clean energy space)
- Geopolitical risk and energy security to secure value chains

1 | Market Balance is Expected to Flip into a Supply Deficit

Oil Supply is Expected to Decline More Rapidly Compared to Oil Demand, Requiring New Investments in to Oil & Gas Investments

Oil market demand and supply balance outlook



in million barrels per day

Supply (RHS)

Market balance expected to flip into a supply deficit

• Resilient Russian export volumes have contributed to oil market surplus, but demand is expected to rebound due to a resurgent China

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- By end of 2023, air travel is expected to be fully rebounded
- Building stocks today is expected to counter deficit projections cause by the increase in demand from Chinese activity in the second half of 2023

Hesitation about traditional O&G supply investments due to:

- Potential cost increases
- Uncertainties over mid and long-term demand intensified by Russian production being a wildcard
- Calls for the industry to accelerate its climate change efforts and reduce energy-related emissions
- Pressures from financial market investors and owners to focus on returning excess cash to shareholders rather than production growth

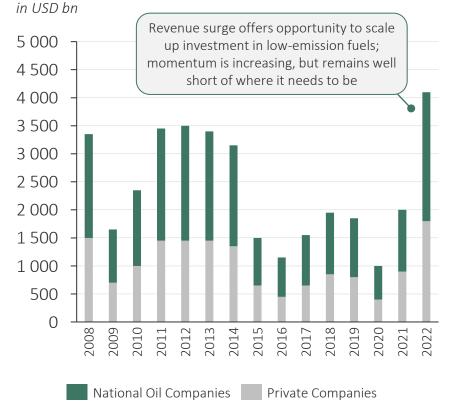




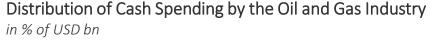
Capital Availability in the Oil & Gas Markets

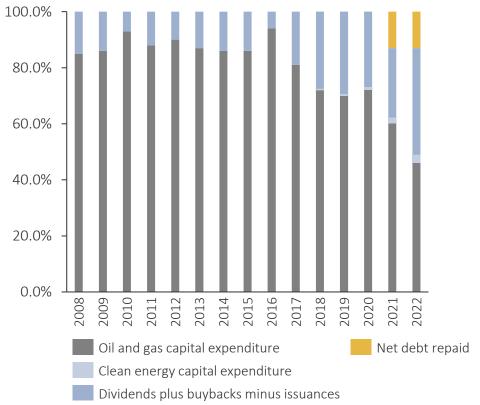
2 | Capital Availability in the Oil & Gas Markets to Benefit from Revenue Surge

Despite Net Income of O&G Companies Reaching a Record High of USD 4tr in 2022, only a Fraction was Directed Towards O&G Capital Expenditure



Net Income of the Oil and Gas Industry⁽¹⁾



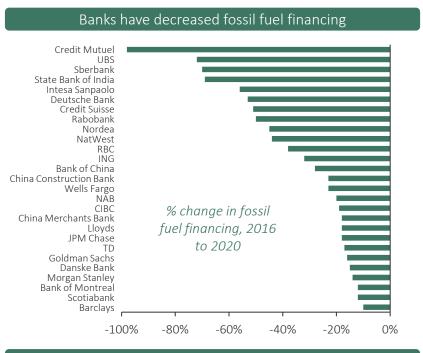


(1) : Net income is calculated from oil and gas production at prevailing oil and gas prices (including subsidies) after operating costs but before taxes; "private companies" here includes listed and non-listed companies Sources: World Energy Investment 2023 Report – IEA, S&P Capital IQ.

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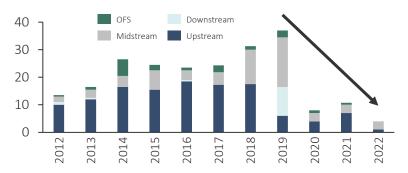
2 | Capital Availability for the Oil & Gas Market is Shaped by ESG targets

Lenders' ESG Targets, Push O&G Producers to Secure Capital from Additional Sources



Private equity raising and debt replacement into O&G has fallen

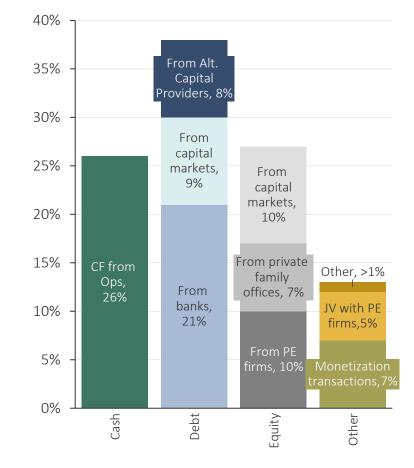
Equity raising and private debt placement by PE/VC firms in USD bn



Sources for producers to secure capital in 2023

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Where are producers planning to secure capital in 2023⁽¹⁾? % reporting



(1) Respondents could select mode than one option, 338 total responses. Sources: Deloitte Oil and Gas M&A Outlook 2023, Banking as Climate Chaos 2021 report, IEF, Haynes Boone Borrowing Base Redeterminations Survey (Fall 2022)



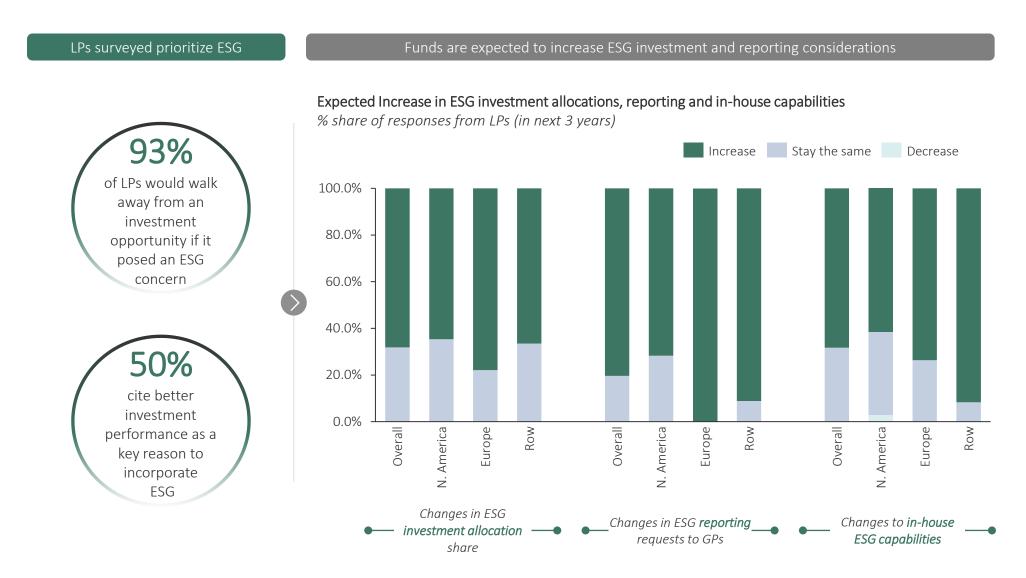


ESG and Investments into Oil & Gas

3 | ESG Criteria will Increasingly Impact Investments into Oil & Gas

Uptake on ESG as an Investment Criteria by Funds is Growing





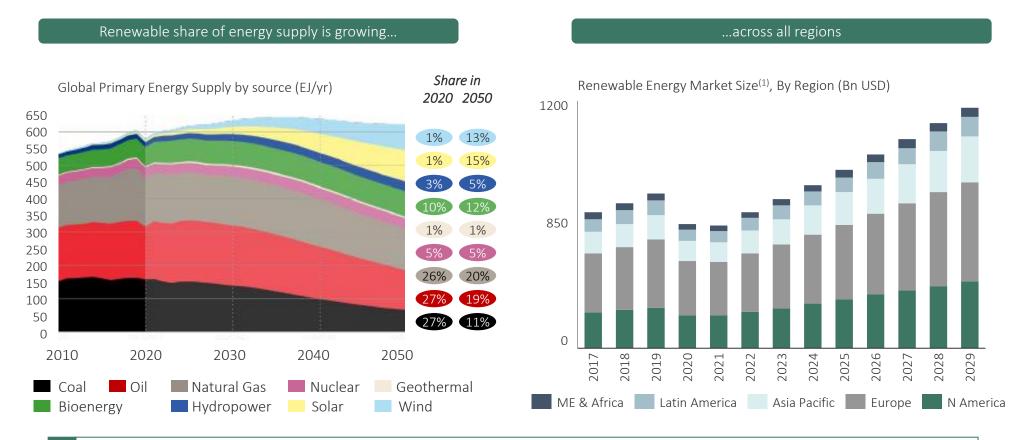




Offshore Wind: a New and Growing Important Energy Source

4 Wind as an Energy Source to Account for 13% by 2050

Renewables' Share of Energy Supply by Source is Growing, Reaching ~45% of Total Supply by 2050



- <u>Fakeaways</u> Renewable share of energy supply is forecasted to account for 45% of energy demand by 2050
 - Wind and solar are the fastest growing energy sources
 - Europe is the largest region in terms of market size although the sector is growing across all regions

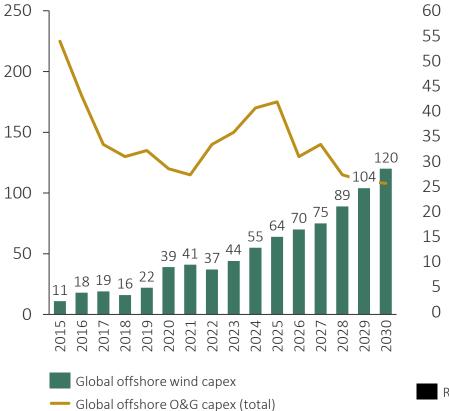
(1) value chain from on and offshore from design to operation Note: figures might not add up to 100 due to rounding Source: McKinsey Global Energy Perspective 2021, Rystad Ucube, Polaris Market Research Analysis

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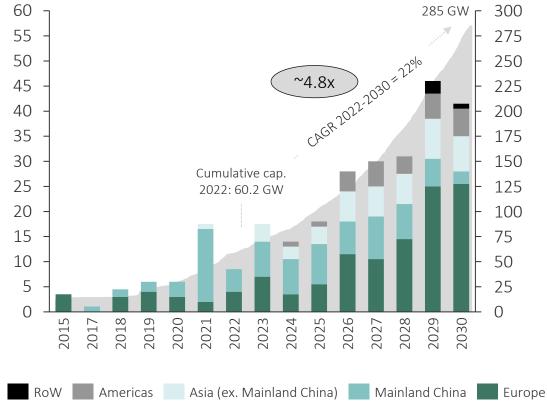
Spending on Wind is Constantly Increasing...

Annual offshore oil & gas CAPEX⁽¹⁾vs. offshore wind CAPEX⁽²⁾, *in billion USD*



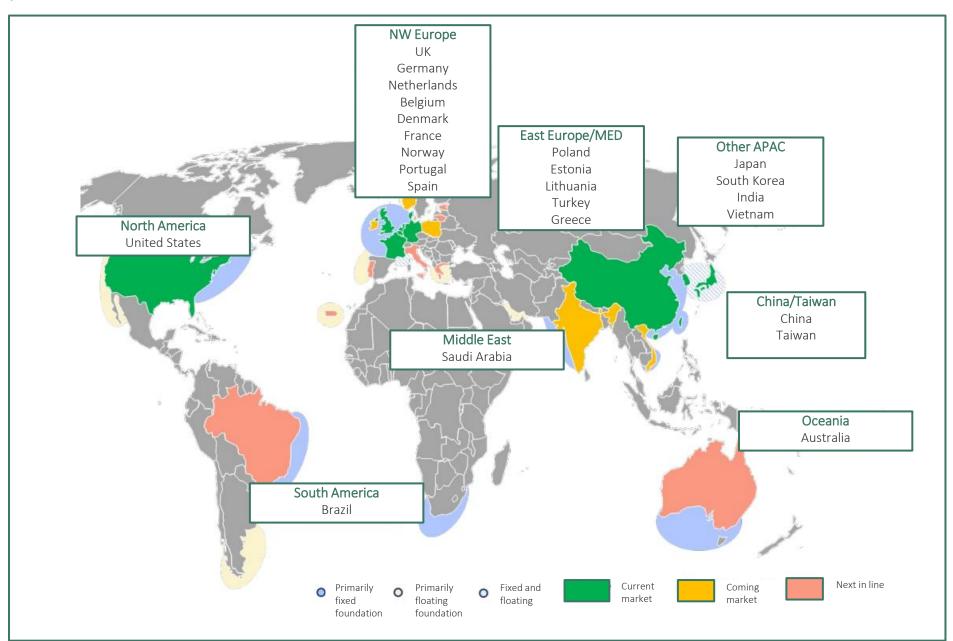
...While Offshore Wind Capacity is Growing 5x

Annual Capacity additions by region (LHS), and global cumulative capacity (RHS) *in Gigawatts*



4 Offshore Wind Industry is Increasingly Gaining Scale Around the Globe

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