

# **Ensuring Adequate Financing to Sustain Oil and Gas Investments**

9th Joint IEA-IEF-OPEC Technical Meeting

April 27, 2023

#### David A. Chang

Senior Managing Director and Commodities Portfolio Manager

## **Today's Panel - Session 3**

Ensuring adequate financing to sustain oil and gas developments

Presenters:

Erik Mielke. Wood Mackenzie

Michael Cohen, BP

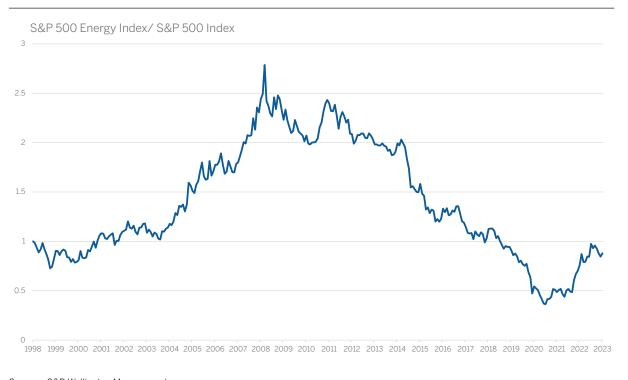
Rob Schwiers, Chevron

Christyan Malek, JP Morgan

Moderated by:

David Chang, Wellington Management

## **The Past**Energy equities underperformed in 8 of the 9 years prior to 2022

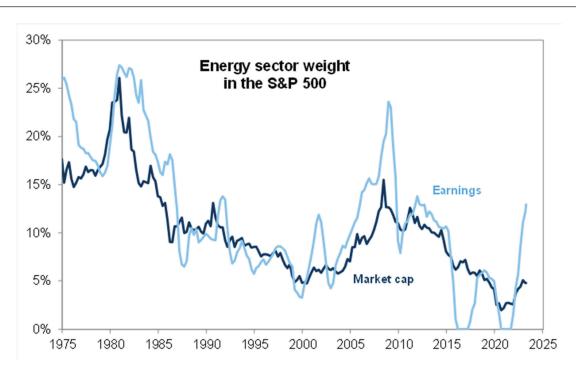


Sources: S&P, Wellington Management

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page 3

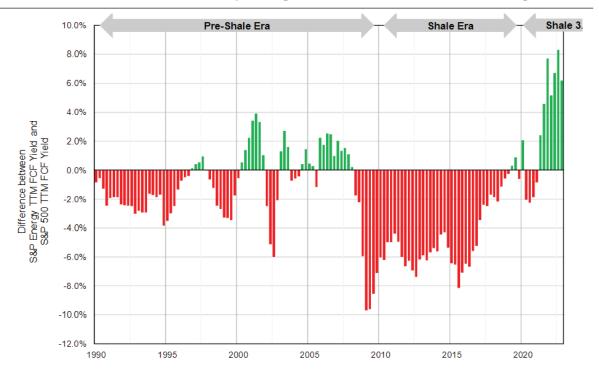
**The Past**Consistent equity market underperformance drove the energy sector weight to the lowest levels in fifty years



Source: S&P, Goldman Sachs

**The Past** 

The Free Cash Flow yield of the energy industry lagged the broad market for more than a decade before improving since 2021... but ESG is working



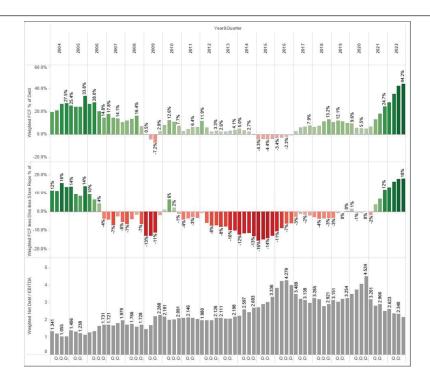
Source: Mizuho

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page 5

## **The Present**

The industry has reduced its debt to a more manageable level



## **The Present**

Improved Free Cash Flows have allowed the energy to reduce their debt and for credit rates to converge with the rest of the market



Sources: Bloomberg, Wellington Management, Credit Suisse

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page 7

#### **The Present**

The equity market is not giving the industry credit for improved returns or does not believe in the sustainability of these cash flows

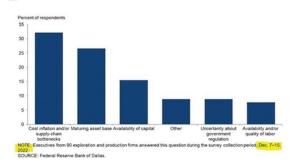




Source: Wellington Management

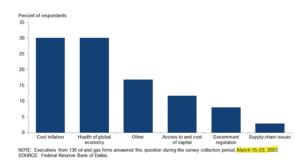
## Which of the following is the biggest drag on crude oil and natural gas production growth for your firm?

Thirty-two percent of executives at exploration and production (E&P) firms selected "cost inflation and/or supply-chain bottlenecks." A total of 27 percent chose "maturing asset base" and 16 percent indicated "availability of capital." Other options each received 9 percent of the company of



## Which of the following do you believe will have the most influence on the profitability of your firm this year?

"Cost inflation" and "health of global economy" were each selected by 30 percent of executives as having the greatest influence on the profitability of their firm in 2023.



#### Source: Federal Reserve Bank of Dallas

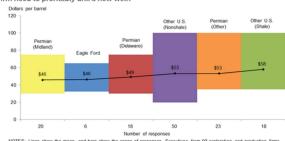
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page 9

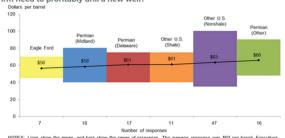
### **The Present**

High levels of cyclical and structural cost inflation pressure producer margins

In the top two areas in which your firm is active: What WTI oil price does your firm need to profitably drill a new well?



ES: Lines show the mean, and bars show the range of responses. Executives from 92 exploration and production firm erred this question during the survey collection period, March 10–18, 2021. In the top two areas in which your firm is active: What WTI oil price does your firm need to profitably drill a new well?



NOTES: Lines show the mean, and pars show the range of responses. The average response was \$0.2 per parter, Executive from 80 exploration and production firms answered this question during the survey collection period, March 15–23, 2023.

SOLID CE: Faderal Description of Dallace.

Source: Federal Reserve Bank of Dallas

## **The Present**

At the same time, cost inflation is reducing the capital efficiency of this spending

						Implied
	Production					Capital
	Base	Corp	replaced			Efficinecy
	production	decline	to stay flat		CAPEX	(000'\$/bbl/d)
2020	100,000	35%	35000	\$	875,000	\$25.00
2021	100,000	33%	33000	\$	945,000	\$28.64
2022	100,000	31%	31000	\$	1,304,100	\$42.07
2023	100,000	29%	29000	\$	1,486,674	\$51.26

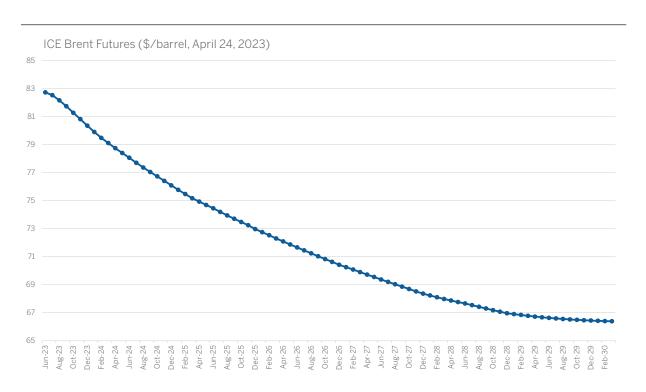
Source: Wellington Management

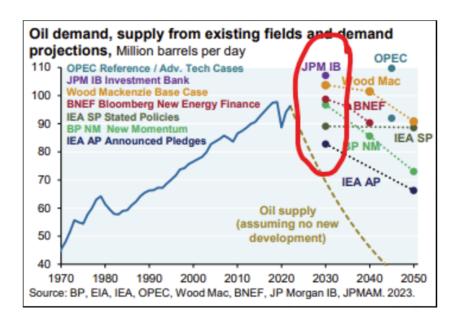
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page 11

## **The Future**

Futures markets continue to discount a lower equilibrium price



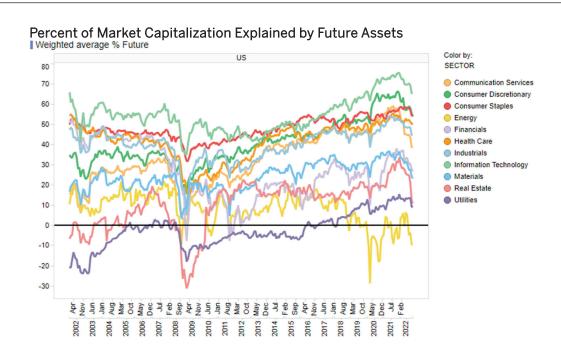


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page 13

#### **The Future**

Market participants assign a negative value to future energy assets



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