

Decoupling in the Energy Patch

Equity Valuations vs. Commodity Prices in 2022

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Key Points


- Energy equities outperformed in 2022 even as oil prices retraced materially from March highs.
- Short-run co-movement between energy equities and crude benchmarks weakened markedly after mid-2022.
- Valuations were supported by elevated cash flows and capital discipline despite lower spot prices.
- Rebalancing under inflation and ESG-related underweights increased portfolio allocations to energy.
- Europe's LNG demand shift and OPEC+ supply restraint supported expectations of sustained sector earnings.



Abstract

This paper studies the 2022 breakdown in the short-run relationship between energy equity valuations and underlying commodity prices. Using daily data on benchmark crude oil, European natural gas, the S&P 500 energy sector, and major U.S. oil and gas firms, it shows that co-movement weakened markedly as energy equities remained elevated even after spot prices moved well off their peaks. The paper links this divergence to a repricing of expected cash flows and their durability, supported by unusually strong earnings, capital discipline, and shareholder distributions. It further situates the episode in a macro and geopolitical context in which high inflation, portfolio rebalancing from structurally low energy weights, Europe's LNG demand shift, and OPEC+ production decisions shaped expectations about scarcity, risk, and supply discipline. The findings imply that in periods of supply insecurity, energy equities can embed durability expectations and risk premia that weaken their near-term linkage to spot commodity prices, with implications for sector allocation and for how investors interpret energy-market policy news when equity-commodity linkages weaken.

Keywords: Energy Equity-Commodity Decoupling, Energy Firm Valuation, Oil Price-Equity Co-Movement, Cash-Flow Durability, Capital Discipline, S&P 500 Energy Sector, ESG Constraints, Inflation and Portfolio Rebalancing, LNG Supply to Europe, OPEC+ Production Cuts



The year 2022 produced one of the most significant energy shocks of the past two decades. As the global economy emerged from the COVID-19 pandemic, oil and gas markets were already tight, with demand recovering faster than supply. Russia's invasion of Ukraine in February 2022 turned this cyclical tightening into a full-fledged energy security crisis. Crude oil prices briefly returned to levels last seen during the 2008 commodity boom, while European natural gas benchmarks spiked to unprecedented heights as flows of Russian pipeline gas were curtailed, and buyers scrambled for alternative supplies.

In financial markets, a key aspect of this episode was not only the magnitude of the price movements but also the evolution of equity valuations of major energy companies relative to the underlying commodities. Historically, oil and gas producers have traded as leveraged plays on crude prices: when oil rises, energy equities tend to rise more, and when oil falls, they tend to fall more (see, for example, Sanusi and Ahmad 2016; Diaz, Mollick, and Saucedo 2016).

In 2022, this pattern broke down. Crude oil prices rose sharply in the first half of the year and then declined in the second half (U.S. EIA 2023a), and by year-end, West Texas Intermediate (WTI) crude was only modestly higher than at the start of 2022 (Reuters 2022). Over the same period, the S&P 500 energy sector gained around 60%-65%, making it by far the best-performing sector in the index (Saul 2022; Popina 2022). Kimani (2022) describes this as a "peculiar disconnect" between crude prices and oil stocks.

This paper examines the decoupling between energy firm valuations and underlying commodity prices. Using daily data on benchmark oil, European gas, and major U.S. energy equities,

it documents how the historically strong co-movement between energy stocks and crude oil weakened markedly in 2022. The paper then discusses mechanisms consistent with this shift – cash-flow surprises, capital discipline, and portfolio rebalancing under inflation and energy security concerns. It provides a concise, descriptive account of when the relationship changed and what it implies for how energy equities are priced.

The paper is organized as follows. Section 2 reviews the main phases of the 2022 energy shock, from prewar tightness to the subsequent price correction. Section 3 presents evidence of the decoupling between energy equities and commodity prices at both the sector and firm levels. Section 4 discusses the rotation into energy by asset managers and the role of U.S. production, the natural gas boom, and the Strategic Petroleum Reserve. Section 5 takes a global perspective, focusing on Europe's scramble for LNG and the implications of OPEC+ production cuts. Section 6 concludes with lessons from the episode for investors and policymakers.

The 2022 Energy Shock: A Brief Chronology

02



The decoupling between energy company valuations and commodity prices in 2022 took place against the backdrop of an exceptionally volatile year for global oil and gas markets. This section briefly traces the main phases of the 2022 energy shock, from prewar tightness and the immediate impact of Russia's invasion of Ukraine to the subsequent price correction later in the year. It provides the market context for the divergence between commodity prices and energy equities documented in the following sections.

2.1 From Tight Markets to the Russia-Ukraine Conflict

At the start of 2022, oil markets were already tight. Global demand was rebounding strongly from the COVID-19 shock, while supply growth lagged after several years of underinvestment and pandemic-related disruptions. By late January, WTI and Brent were near multiyear highs (Verma 2022).

Russia's invasion of Ukraine on February 24, 2022, added a major geopolitical shock to an already constrained market. Fears of sanctions on Russian energy exports, self-sanctioning by private buyers, and potential physical disruptions to supply prompted a further sharp move higher in prices. On the day of the invasion, Brent crude briefly climbed above \$105 per barrel for the first time since 2014 (Kelly 2022; Mohamad 2022), and WTI moved above \$100 per barrel. What had initially looked like cyclical tightening thus turned into a full-fledged energy security crisis for many importing countries.

2.2 The March Price Spike and Policy Response

In early March, oil prices spiked sharply amid heightened disruption risk and uncertainty over Russian supply (Macheel and Stevens 2022). Brent crude traded in a similarly elevated range. European natural gas prices, already elevated before the invasion, rose even more sharply as buyers scrambled to secure non-Russian supplies and fill storage (Maguire 2022).

In response to the price spike and concerns about the impact on consumers, the United States announced large releases from the Strategic Petroleum Reserve (SPR), including a six-month, 1 million barrels-per-day drawdown starting in late March (The White House 2022). Other members of the International Energy Agency (IEA) also agreed to coordinated emergency stock releases (IEA 2022).

2.3 Sustained High Prices and the Late-2022 Correction

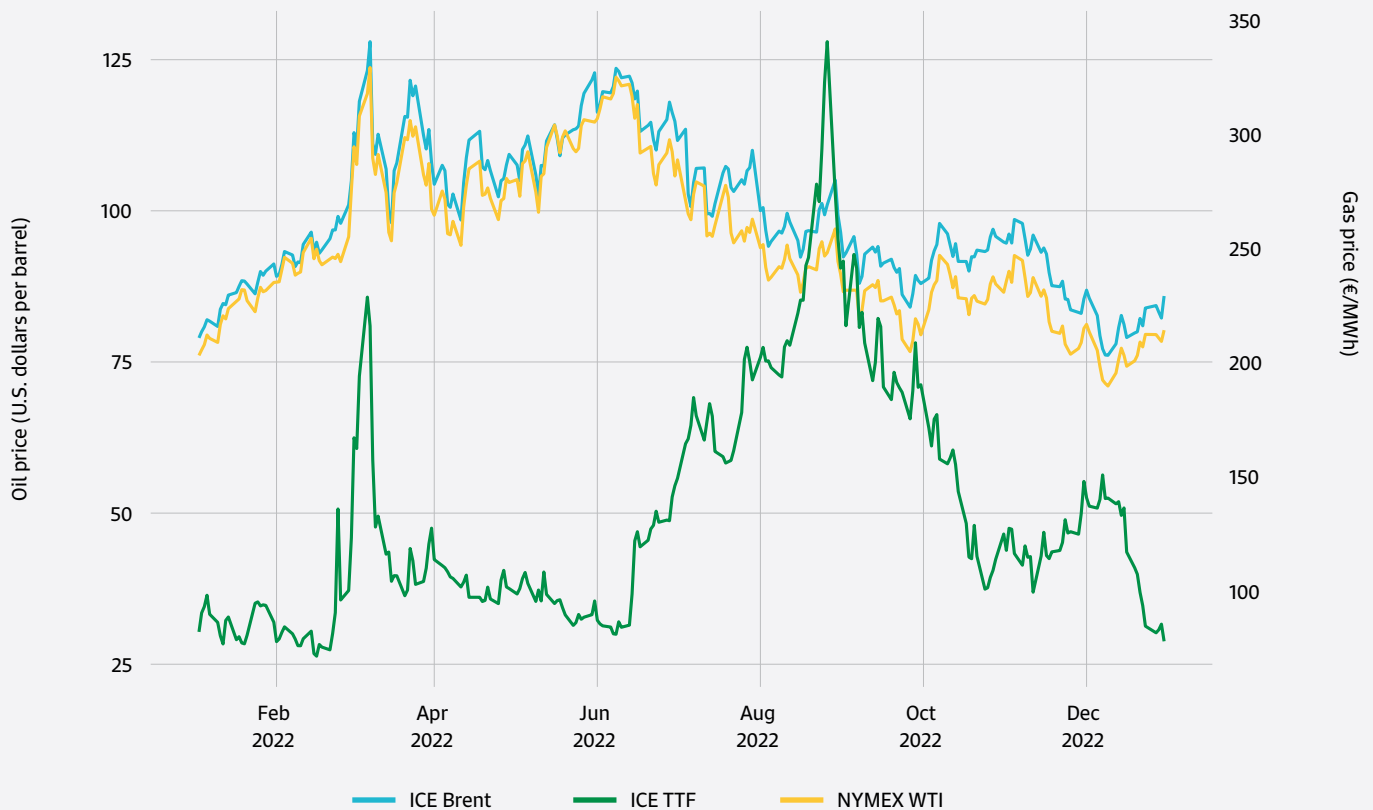
From the onset of the Russia-Ukraine conflict through much of the first half of 2022, crude prices remained exceptionally high. Brent and WTI traded well above their early January levels and, for extended periods from March-June, spot prices for both benchmarks were above \$100 per barrel. The combination of strong demand, constrained supply, uncertainty about Russian exports, and limited spare capacity among other major producers kept prices elevated.

From June onward, recession concerns and tighter monetary policy contributed to a pronounced correction in oil prices (U.S. EIA 2023a; Reuters 2022). By the final trading day of 2022, Brent

closed around \$85 per barrel, while WTI finished only modestly above its level at the start of the year, well below the peak reached in early March (Reuters 2022). European gas prices also eased from extreme highs later in the year. In contrast, as discussed in Section 3, the share prices of many oil and gas firms listed on U.S. exchanges continued to perform strongly, and broad energy equity indices ended 2022 as the standout outperformers in an otherwise weak year for global equities (Saul 2022; Popina 2022).

Figure 1 summarizes the surge and subsequent correction in benchmark oil and gas prices during 2022. Together with Figure 2 and Table 1, it highlights two features central to the paper: the magnitude of the 2022 price shock and the fact that commodity prices had fallen materially from their peaks by year-end, even as energy equities remained elevated.

Figure 1. Crude oil and European natural gas benchmark prices in 2022.



Source: Authors' calculation, based on Bloomberg Terminal.

Evidence of Decoupling: Energy Equities vs. Commodity Prices

03



This section documents how, in 2022, the performance of listed energy companies diverged from the behavior of the underlying commodities they produce. It first recalls the usual strong link between oil prices and energy equities, then shows how 2022 broke that pattern at both the sector and firm levels, before relating the decoupling to earnings and cash-flow surprises.

3.1 The Usual Link Between Oil Prices and Energy Equities

Under normal conditions, the share prices of oil and gas producers tend to move closely with crude prices. Because cash flows are highly exposed to realized prices, energy equities typically co-move strongly with crude benchmarks, especially over short- and medium-term horizons (Sanusi and Ahmad 2016; Díaz, Mollick, and Saucedo 2016).

Figure 2 illustrates this relationship using the S&P 500 energy sector index and the front-month WTI crude oil futures price. The chart shows daily data from January 2022 onward. For much of the first half of the year, the sector index and WTI move broadly together: both rise sharply as the post-pandemic demand recovery meets constrained supply and, after Russia's invasion of Ukraine, both remain elevated as the energy shock deepens

3.2 When Prices Fell and Stocks Did Not

From mid-2022 onward, the usual link began to weaken. As discussed in Section 2, oil prices corrected meaningfully from

their March peak. By December, WTI was roughly 40% below its intrayear high, and Brent had also declined substantially, even though both benchmarks were still somewhat higher than at the start of 2022 (Reuters 2022; U.S. EIA 2023a). In contrast, the S&P 500 energy sector index ended 2022 up around 60%-65%, making energy by far the best-performing sector in the broader U.S. equity market (Saul 2022; Popina 2022).

The broad sector picture is reflected at the firm level. Pre-2022, energy equities did not always translate oil price strength into comparable returns, but 2022 reversed that pattern (Table 1). The Russia-Ukraine conflict in February 2022 amplified already tight markets, producing a sharp spike and subsequent correction in oil and gas prices.

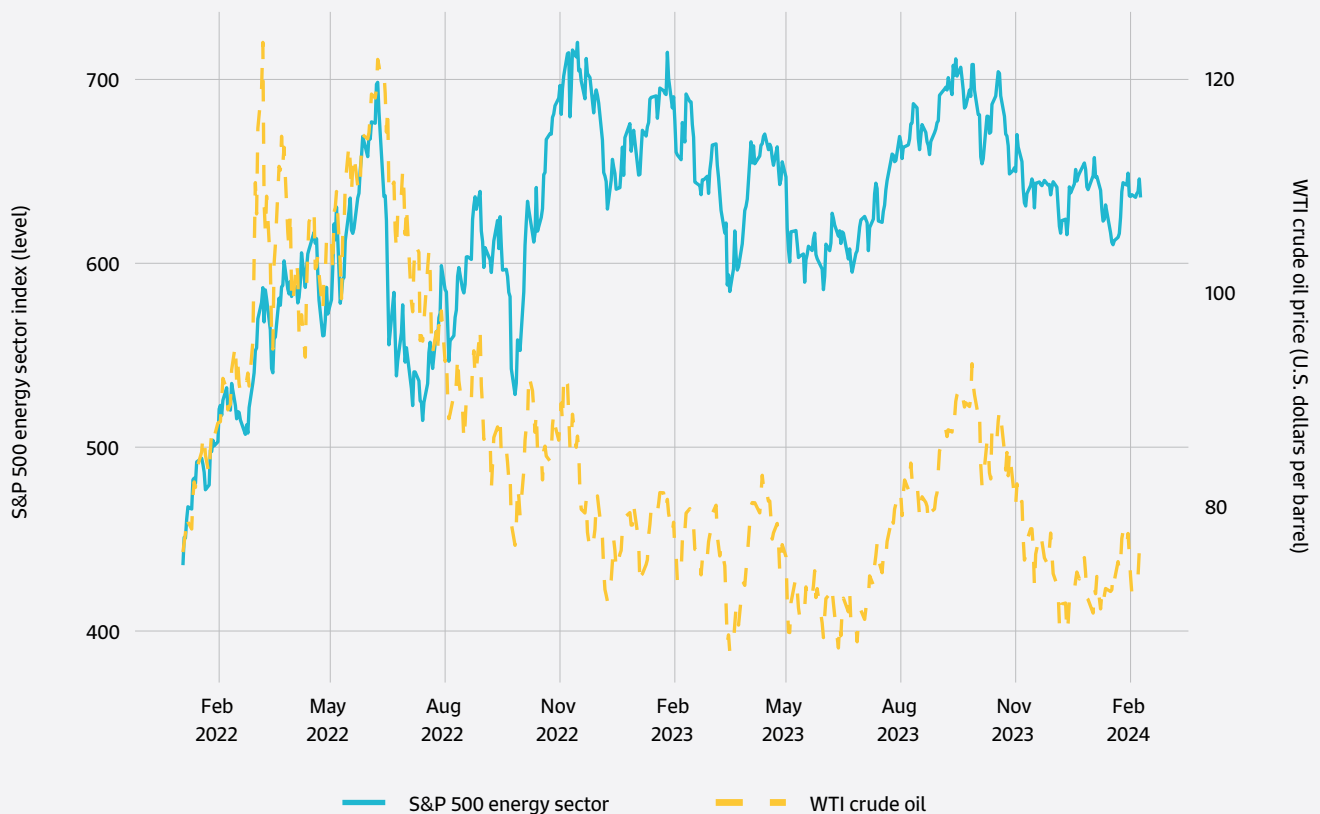
The price dynamics over the course of the year tell a similar story. Figure 3 plots Chevron, ExxonMobil, and WTI prices indexed to 100 at the start of 2022. All three series initially move together during the first quarter. From late spring onward, however, the paths diverge: oil prices roll over and end the year close to, or slightly below, where they started, whereas the two oil majors remain 20%-40% higher.

A 60-day rolling correlation between the S&P 500 energy sector index level and the WTI crude oil price summarizes this change. The correlation is close to 0.8-0.9 for much of early 2022, but falls markedly from midyear and remains low into year-end,

indicating a material weakening in short-run co-movement. This pattern indicates that the usual tight short-run co-movement between energy equities and oil prices weakened materially in the second half of 2022.

Taken together, the sector-level evidence in Figure 2, the return and volatility statistics in Table 1, and the firm-level divergence in Figures 3 and 4 point to a clear conclusion: By late 2022, U.S. energy equities were no longer simply reflecting the evolution of spot oil prices. Something else was supporting valuations.

Figure 2. S&P 500 energy sector index and WTI crude oil price.



Note: The left axis shows the S&P 500 energy sector index level daily data, and the right axis shows the NYMEX WTI front-month futures price in U.S. dollars per barrel per day. Source: Authors' calculation, based on Bloomberg Terminal.

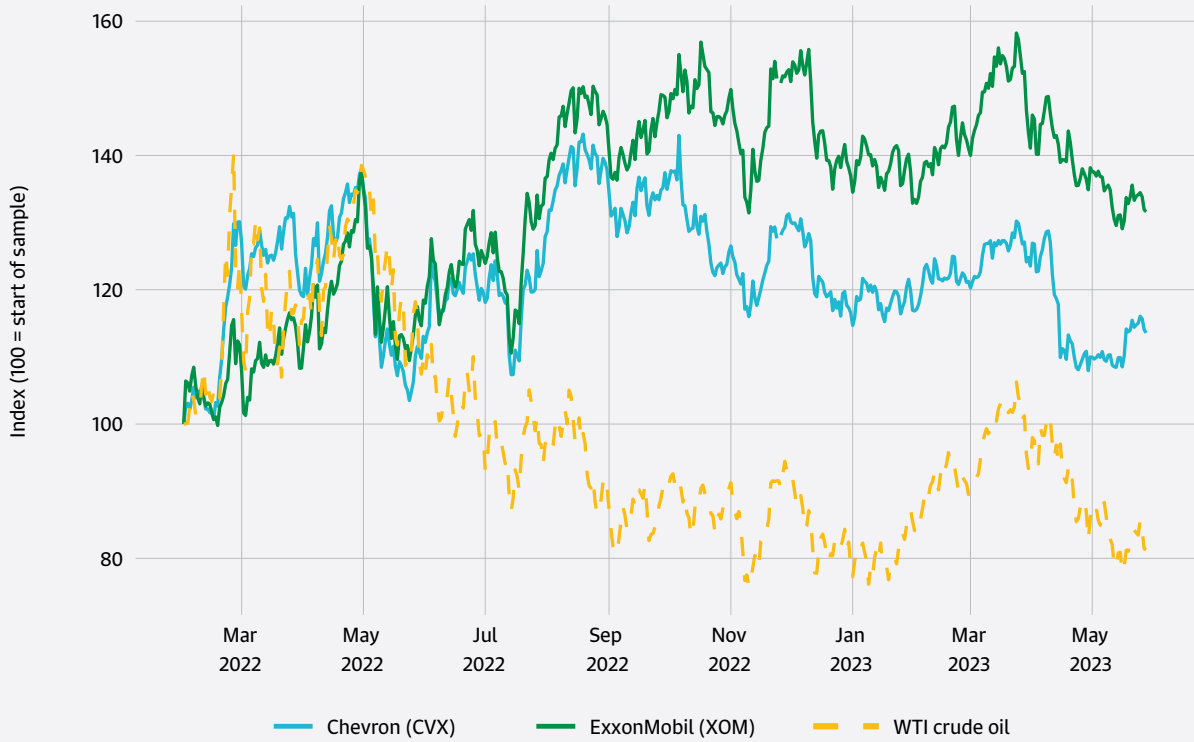
Table 1. Annualized returns and volatility: crude oil vs. major U.S. oil firms.

2020-2021			2022	
Asset	Mean return (%)	Volatility (%)	Mean return (%)	Volatility (%)
WTI crude oil	40.6	70.7	6.5	48.5
Chevron (CVX)	1.6	47.1	42.7	33.0
ExxonMobil (XOM)	-4.7	43.0	59.2	35.1

Note: Based on daily log returns from Bloomberg prices. Returns and volatility are annualized assuming 252 trading days per year. Source: Authors' calculations, based on Bloomberg Terminal.

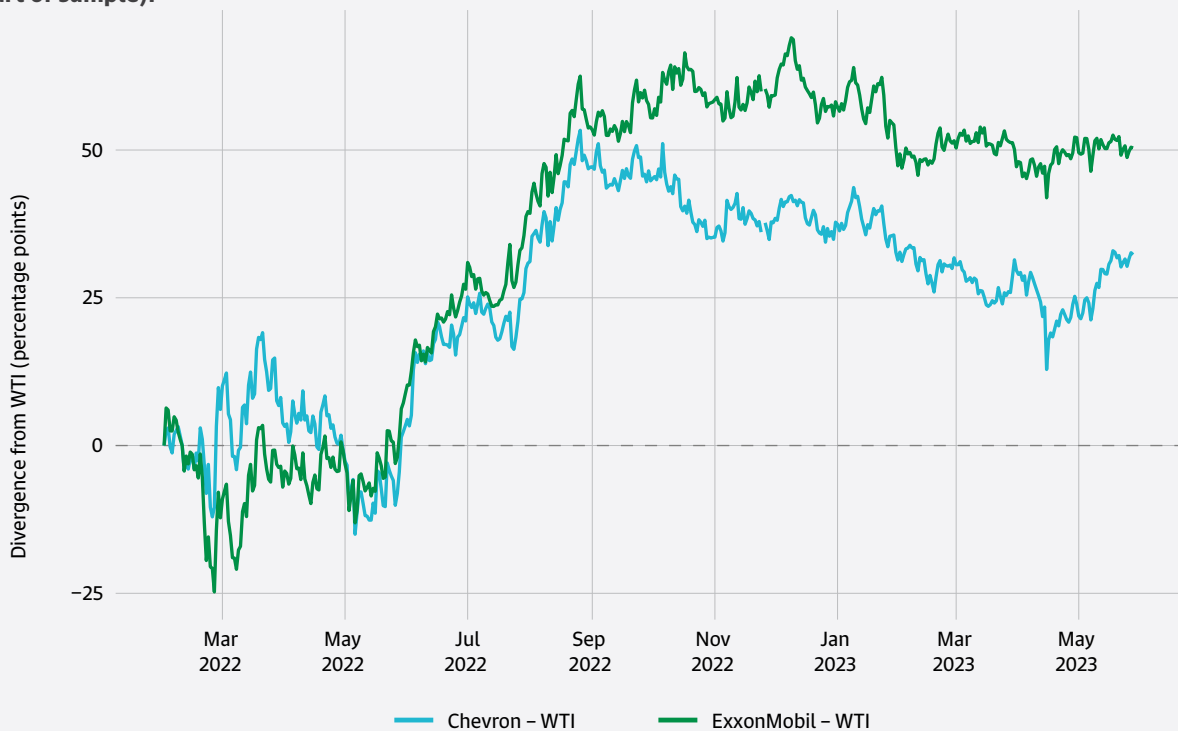


Figure 3. Chevron and ExxonMobil vs WTI crude oil, indexed to 100 at the start of 2022.



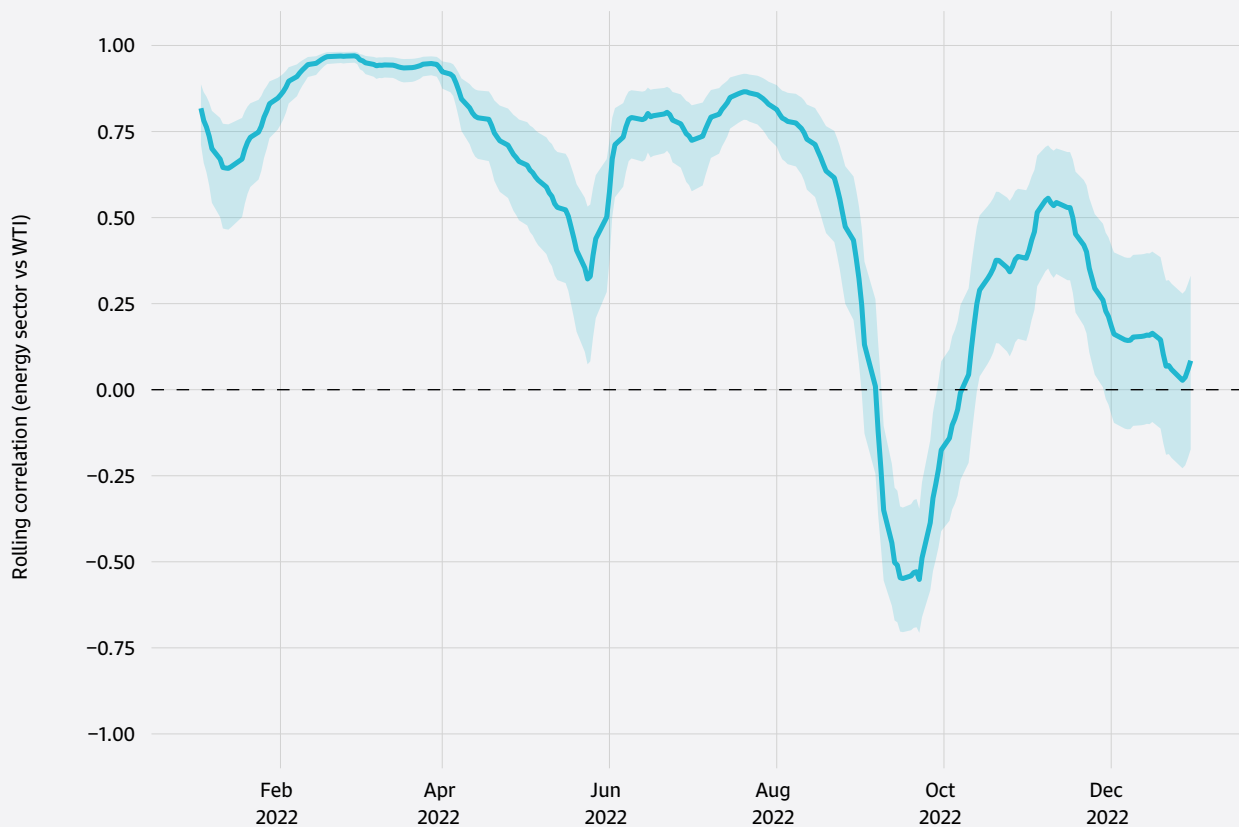
Note: Daily closing prices for Chevron (CVX), ExxonMobil (XOM), and NYMEX WTI front-month futures, normalized to 100 on January 31, 2022.
 Source: Authors' calculations, based on Bloomberg Terminal.

Figure 4. Divergence of Chevron and ExxonMobil from WTI crude oil prices: difference in indexed performance (100 = start of sample).



Note: Divergence is defined as the difference between each stock's indexed price and the indexed NYMEX WTI front-month futures price (all series normalized to 100 at the start of 2022).
 Source: Authors' calculations, based on Bloomberg Terminal.

Figure 5. Rolling 60-day correlation between the S&P 500 energy sector index and WTI crude oil: 60-day rolling window, daily log returns.



Note: The shaded area shows an approximate 95% confidence interval based on the Fisher z transform. Correlations are computed on daily price levels.
Source: Authors' calculations, based on Bloomberg Terminal.

3.3 Earnings, Cash Flows, and Surprises

One candidate to explain the decoupling is firm-level financial fundamentals and capital allocation. The 2022 price shock generated exceptional cash flows for large oil and gas producers, but companies responded in ways that were markedly different from previous upswings. Rather than ramping up capital expenditures as aggressively as in past booms, many majors emphasized capital discipline, balance sheet repair, and shareholder distributions. Large producers reported exceptional 2022 profits and free cash flow, and emphasized shareholder distributions and debt reduction rather than rapid capex expansion (ExxonMobil 2023; Chevron Corporation 2023; Bousso and Valle 2023).

Earnings data underscore how unusual 2022 was. The energy sector recorded the highest earnings growth of all 11 S&P 500 sectors, with year-on-year earnings up by about 137% compared with roughly 2% for the index as a whole (Kimani 2022).

In valuing equities, investors care not only about the level of profits, but also about how those profits deviate from prior expectations. In the years preceding 2022, the listed energy sector had generally delivered weak relative performance and was increasingly constrained by environmental, social, and governance (ESG) considerations. Oil and gas stocks had been largely out of favor with many institutional investors prior to their sharp outperformance in 2022 (Slav 2023).

Against this backdrop, the combination of stronger-than-expected commodity prices and a more shareholder-oriented use of cash flows – with an emphasis on dividends, share buybacks, and debt reduction rather than aggressive capacity expansion – amounted to a substantial positive surprise. Large integrated oil companies began to be priced less as high-beta proxies for spot oil prices and more as cash-generative businesses whose valuations depend primarily on expectations about medium-term cash flows rather than the precise level of front-month futures prices.



This perspective helps explain why energy equities remained resilient even as oil and gas prices retreated from their peaks. Once valuations had adjusted to reflect higher expected cash flows and a different capital allocation regime, short-term fluctuations in spot prices mattered less than the perceived

durability of those cash flows. In other words, the decoupling observed in 2022 is consistent with a shift in how markets price energy firms: less as simple commodity proxies, and more as companies with balance sheet strength, disciplined investment, and (at least over a multiyear horizon) significant pricing power.



What Drove the Rotation into Energy?

04



The decoupling documented in Section 3 did not occur in isolation. It reflected both a reassessment of energy companies' fundamentals and a broader portfolio rebalancing by investors navigating high inflation, rising interest rates, and heightened energy security concerns. This section discusses two sets of drivers: the behavior of asset managers caught between inflation hedging and ESG commitments, and the specific role of U.S. production, the natural gas boom, and releases from the SPR.

4.1 Asset Managers Between Inflation and ESG

In the years leading up to 2022, ESG-oriented mandates contributed to structural underweights in traditional energy equities (Skadden, Arps, Slate, Meagher & Flom LLP 2022). In 2022, this positioning mattered: energy was the only S&P 500 sector with positive returns, yet it still represented only a small share of broad U.S. equity indices, around 4%, implying that even modest reallocations could have outsized price effects (Riverwater Partners 2022).

The 2022 energy shock forced a partial reevaluation of this positioning. With inflation reaching multidecade highs and central banks tightening policy aggressively, the macroeconomic backdrop for investors became unusually challenging (IMF 2022). In this environment, asset allocators came under greater pressure to deliver positive real returns. Energy companies offered a combination that was rare elsewhere in the equity universe: strong near-term earnings momentum, high free-cash-flow yields, and, in many cases, explicit commitments to return cash to shareholders via dividends and share buybacks rather

than embarking on large new capital expenditure programs (Kimani 2022; ExxonMobil 2023).

In 2022, increased exposure to energy was often a tactical response to unusually favorable risk-return conditions, with allocations concentrating in large, liquid integrated firms. Energy equities also functioned as a partial inflation hedge, given their positive exposure to energy prices and the tendency of inflation-hedging portfolios to overweight oil and gas equities (Ang, Brière, and Signori 2012; Pesci et al. 2022; Hartford Funds 2023).

ESG considerations did not disappear, however. Evidence from fund holdings suggests that sustainable strategies, on average, remained underweight the energy sector relative to conventional portfolios (Morgan Stanley Institute for Sustainable Investing 2023; Riverwater Partners 2022). Some institutions chose to gain exposure through broad-market indices rather than dedicated energy mandates, and others kept positions close to benchmark weights rather than adopting large active overweights. Even so, positioning shifted: after years of underownership, energy moved closer to benchmark weights as fundamentals improved.



4.2 U.S. Production, Natural Gas Boom and the SPR

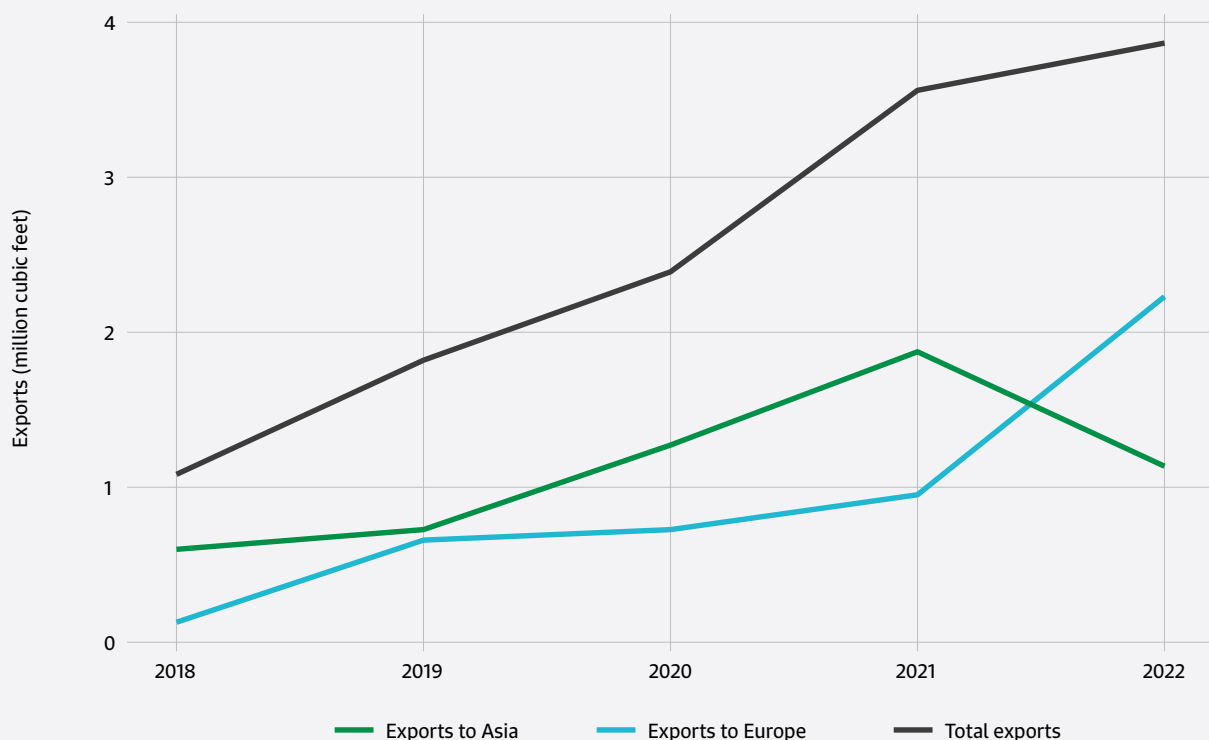
The rotation into energy was supported by U.S. supply discipline and the U.S. role in supplying LNG to Europe. Even as prices surged, producers prioritized shareholder returns and balance sheet repair over rapid volume growth, reinforcing expectations of cash-flow durability (Natural Gas Intelligence 2022). This constrained supply response helped convince investors that high cash flows could persist even without aggressive expansion in drilling activity.

Natural gas told a different story. U.S. gas production reached record levels in 2022 as domestic demand remained strong and export capacity expanded (Casey 2023; U.S. EIA 2023b). The disruption of Russian pipeline flows to Europe created an urgent need for alternative suppliers, and U.S. LNG exports played a central role in filling the gap. Between 2018 and 2022, total U.S. LNG exports rose sharply as new export capacity came online, and exports to Europe grew rapidly (Turk 2024). Figure 6 shows how Europe overtook Asia as the main destination for U.S. LNG cargoes in 2022, underscoring the degree to which the United States became a key swing supplier to European gas markets.

Another important element of the 2022 landscape was the use of the U.S. SPR. In an effort to ease fuel prices and address supply disruptions linked to Russia's invasion of Ukraine, the U.S. government announced and implemented emergency SPR drawdowns totaling about 180 million barrels over the course of the year (U.S. EIA 2022). SPR inventories fell to around 405 million barrels by mid-October 2022, the lowest level since the mid-1980s (U.S. EIA 2022). At the same time, the drawdowns reduced the buffer available to absorb future shocks, leaving investors facing a tight physical market and a strategic reserve at historically low levels.

Taken together, these factors provided a fundamental backdrop that made the rotation into energy easier to justify. Limited supply growth, robust gas demand, record exports, and an unusually tight margin of safety in global inventories all supported the view that energy companies' elevated earnings and cash flows might prove more durable than a simple glance at spot oil prices would suggest. In that sense, the decoupling between equity valuations and contemporaneous commodity prices documented in Section 3 can be seen as an endogenous response to a new set of fundamentals rather than a purely speculative overshoot.

Figure 6. U.S. LNG exports by destination region, annual data from 2018-2022.



Note: Annual LNG export volumes aggregated from destination-country data.

Source: Authors' calculations, based on U.S. EIA (2024).

Global Repricing: Europe, LNG and OPEC+

05



The energy shock of 2022 triggered not only a revaluation of listed oil and gas companies, but also a broader repricing of energy across regions and fuels. Nowhere was this more visible than in European gas markets, where the loss of Russian pipeline flows forced a rapid search for alternative supplies, and in the oil market response to OPEC+'s production decisions. This section highlights how Europe's scramble for gas drew in U.S. LNG and how OPEC+'s production cuts interacted with, but did not fully reverse, the downward correction in oil prices.

5.1 Europe's Scramble for Gas and the Role of U.S. LNG

Europe entered 2022 heavily dependent on Russian pipeline gas, with limited short-term options to replace those volumes. The sharp reduction in flows through key routes such as Nord Stream, combined with sanctions and self-sanctioning by buyers, pushed prices at the Dutch TTF hub to unprecedented levels and raised fears of physical shortages for the winter heating season (IEA 2025; Pandya 2022).

U.S. LNG emerged as a central part of this adjustment. Cargoes that previously sailed to Asia were diverted to Europe, new contracts were signed with European buyers, and regasification capacity was rapidly expanded in several countries. As U.S. LNG exports to Europe rose sharply, flows to Asia fell back from their 2021 peak.

For energy companies with LNG portfolios, and for U.S. gas producers more broadly, this reorientation of trade patterns reinforced the positive earnings surprise discussed in Section 3. The prospect of sustained European demand for U.S. LNG at prices well above historical norms helped underpin expectations of strong medium-term cash flows, even as spot prices retreated from their peaks.

5.2 OPEC+ Production Cuts

On the oil side, the other major global actor shaping expectations in 2022 was OPEC+. Growth concerns mounted in the second half of the year, and prices slid from their March peak. In October 2022, OPEC+ announced a headline 2 million bpd production cut, citing uncertainty and rising economic slowdown risks.

Oil prices firmed briefly after the October cut but continued trending lower into year-end, while energy equities showed limited additional upside. As Figure 2 illustrates, after an initial rally around October's OPEC+ decision, the final weeks of 2022 are characterized more by sideways or slightly softer energy equity prices than by a renewed sustained surge. By late 2022, fears of recession, tighter monetary policy, and slowing oil demand in key consuming regions were exerting downward pressure on prices. Against this backdrop, energy equities, having already priced in a substantial improvement in cash flows, were less sensitive to marginal OPEC+ announcements than earlier in the year. Even with spot prices off their peaks, valuations continued to reflect expectations of stronger earnings power than precrisis market valuations had implied.



In 2022, energy equities substantially outperformed oil, even as benchmark prices corrected, and the usual short-run co-movement weakened. The evidence in Figures 2-5 and Table 1 is consistent with valuations shifting toward expectations about cash-flow durability and capital discipline rather than tracking spot prices mechanically.

Second, firm-level financial fundamentals and capital allocation mattered in a different way from previous cycles. Instead of rapidly expanding capital expenditure and production, many firms chose to keep investment restrained and channel windfall revenues into debt reduction, dividends, and share buybacks. These behaviors supported a narrative of “disciplined” energy companies that could generate substantial free cash flow even if prices normalized from their peaks. Against a macro backdrop of high inflation and rising interest rates, these cash flows were particularly attractive to asset managers seeking real returns, even as they continued to navigate ESG constraints. The rotation into energy was thus not simply a speculative bet on ever-higher oil prices, but also a portfolio response to an unusually favorable risk-return profile for the sector.

Third, the global dimension of the shock mattered for how investors perceived the durability of earnings. Europe’s

scramble for gas and the redirection of U.S. LNG exports toward European buyers, documented in Figure 6, reinforced the idea that U.S. producers and LNG exporters would enjoy structurally stronger demand for several years. This shift underscored a broader transition in market sentiment, in which energy security and the reliability of supply became primary drivers of long-term valuation. These factors contributed to a view that, even with prices off their peaks, the medium-term balance of risks for energy company earnings remained tilted to the upside.

Overall, 2022 shows that energy equities can diverge sharply from spot commodity prices when markets reprice expected cash-flow durability and capital allocation behavior. The relationship may tighten again in future shocks, but the episode demonstrates that it is not purely mechanical.

References

- Ang, Andrew, Marie Brière, and Ombretta Signori. 2012. "Inflation and Individual Equities." NBER Working Paper 17798. National Bureau of Economic Research. <https://doi.org/10.3386/w17798>.
- Bouso, Ron, and Sabrina Valle. 2023. "Big Oil's Good Times Set to Roll On After Record 2022 Profits." *Reuters*, January 17. <https://www.reuters.com/business/energy/big-oils-good-times-set-roll-after-record-2022-profits-2023-01-17/>.
- Casey, Jessica. 2023. "EIA: Natural Gas Consumption, Production, and Exports Broke Records in 2022." *LNG Industry*, January 13. <https://www.lngindustry.com/liquid-natural-gas/13012023/eia-natural-gas-consumption-production-and-exports-broke-records-in-2022/>.
- Chevron Corporation. 2023. *Supplement to Chevron's 2022 Annual Report. Investor Presentation*. <https://www.chevron.com/-/media/chevron/investors/documents/annual-report-supplement-2022.pdf>.
- Díaz, Eduardo M., André V. Mollick, and Edgar Saucedo. 2016. "Oil Price Shocks and Stock Returns of Oil and Gas Corporations." *Energy Economics* 59: 356–370.
- Exxon Mobil Corporation. 2023. "ExxonMobil Announces Full-Year 2022 Results." Press release, January 31. https://corporate.exxonmobil.com/news/news-releases/2023/0131_exxonmobil-announces-full-year-2022-results.
- Hartford Funds. 2023. "Which Equity Sectors Can Combat Higher Inflation?" January 19. <https://www.hartfordfunds.com/insights/market-perspectives/equity/which-equity-sectors-can-combat-higher-inflation.html>.
- International Energy Agency (IEA). 2022. "IEA Member Countries to Make 60 Million Barrels of Oil Available Following Russia's Invasion of Ukraine." March 1. <https://www.iea.org/news/iea-member-countries-to-make-60-million-barrels-of-oil-available-following-russias-invasion-of-ukraine>.
- International Energy Agency (IEA). 2025. *Gas Market Lessons from the 2022–2023 Energy Crisis*. <https://www.iea.org/reports/gas-market-lessons-from-the-2022-2023-energy-crisis>.
- International Monetary Fund (IMF). 2022. *World Economic Outlook, October 2022: Countering the Cost-of-Living Crisis*. <https://www.imf.org/en/Publications/WEO/Issues/2022/10/11/world-economic-outlook-october-2022>.
- Kelly, Stephanie. 2022. "Oil Tops \$105/bbl After Russia Attacks Ukraine." *Reuters*, February 24. <https://www.reuters.com/business/energy/oil-rises-us-says-russian-attack-ukraine-may-occur-soon-2022-02-24/>.
- Kimani, Alex. 2022. "Oil Stocks Are Showing a Peculiar Disconnect from Crude Prices." Oilprice.com, December 12. <https://oilprice.com/Energy/Energy-General/Oil-Stocks-Are-Showing-A-Peculiar-Disconnect-From-Crude-Prices.html>.
- Macheel, Tanaya, and Pippa Stevens. 2022. "U.S. Crude Oil Spikes to 13-Year High of \$130 Overnight, Then Gives Up Most of That Gain." *CNBC*, March 7.
- Maguire, Gavin. 2022. "U.S. LNG Exports Both a Lifeline and a Drain for Europe in 2023." *Reuters*, December 29. <https://www.reuters.com/markets/commodities/us-lng-exports-both-lifeline-drain-europe-2023-2022-12-29/>.
- Mohamad, Ahmad. 2022. "Safe Flight to Which Haven When Russia Invades Ukraine?" *Economics Letters* 214: 110474. <https://doi.org/10.1016/j.econlet.2022.110558>.
- Morgan Stanley Institute for Sustainable Investing. 2023. *Sustainable Reality: Sustainable Funds Return to Outperformance in First Half of 2023*. https://www.morganstanley.com/content/dam/msdotcom/en/assets/pdfs/MS_Institute_for_Sustainable_Investing_Sustainable_Reality_1H_2023_report_FINAL.pdf.
- Natural Gas Intelligence. 2022. "U.S. Oil Production Hits New 2022 Peak, But More Runway Ahead for Growth." December 1. <https://www.naturalgasintel.com/news/us-oil-production-hits-new-2022-peak-but-more-runway-ahead-for-growth/>.
- Pandya, Sagar. 2022. "Dutch TTF Prices Hit All-Time High, With No Signs of Slowing." S&P Global Commodity Insights, August 26. <https://www.spglobal.com/commodityinsights/en/market-insights/latest-news/natural-gas/082622-dutch-ttf-prices-hit-all-time-high-with-no-signs-of-slowing>.



Pesci, Niccolò, Jean-Pierre Aguilar, Victor James, and François Rouillé. 2022. "Inflation Forecasts and European Asset Returns: A Regime-Switching Approach." *Journal of Risk and Financial Management* 15 (10): 475. <https://doi.org/10.3390/jrfm15100475>.

Popina, Elena. 2022. "These Were the Best Trades in 2022." *Bloomberg*, December 30. <https://www.bloomberg.com/news/articles/2022-12-22/stock-market-s-trade-of-the-year-was-long-inflation-short-tech>.

Reuters. 2022. "Oil Ends Year of Wild Price Swings With Second Straight Annual Gain." *Reuters*, December 30. <https://www.reuters.com/business/energy/oil-set-close-higher-2022-turbulent-year-marked-by-tight-supplies-2022-12-30/>.

Riverwater Partners. 2022. "ESG Will Endure Despite 2022 Performance." Commentary. <https://riverwaterpartners.com/esg-will-endure-despite-2022-performance/>.

Sanusi, Muhammad Sani, and Fadzil Ahmad. 2016. "Modelling Oil and Gas Stock Returns Using Multi-Factor Asset Pricing Model Including Oil Price Exposure." *Finance Research Letters* 18: 89–99. <https://doi.org/10.1016/j.frl.2016.04.005>.

Saul, Derek. 2022. "Energy Stocks Outshone Peers in 2022." *Forbes*, December 30. <https://www.forbes.com/sites/dereksaul/2022/12/29/energy-stocks-outshone-peers-in-2022/>.

Skadden, Arps, Slate, Meagher & Flom LLP. 2022. "ESG: 2021 Trends and Expectations for 2022." *Insights*, January 19. <https://www.skadden.com/insights/publications/2022/02/esg-2021-trends-and-expectations>.

Slav, Irina. 2023. "2022: The Year When Oil and Gas Stocks Became Market's Darlings." Oilprice.com, January 2. <https://oilprice.com/Energy/General/2022-The-Year-When-Oil-And-Gas-Stocks-Became-Markets-Darlings.html>.

The White House. 2022. "Biden Administration Responds to Putin's Price Hike by Awarding First Barrels from Historic Strategic Petroleum Reserve Release, Deploying Affordable Clean Energy." April 21. <https://bidenwhitehouse.archives.gov/briefing-room/statements-releases/2022/04/21/fact-sheet-biden-administration-responds-to-putins-price-hike-by-awarding-first-barrels-from-historic-strategic-petroleum-reserve-release-deploying-affordable-clean-energy/>.

Turk, David. 2024. "Testimony of David Turk, Deputy Secretary, U.S. Department of Energy, Before the Committee on Energy and Natural Resources, United States Senate: Liquefied Natural Gas Applications and Exports." Washington, DC: U.S. Department of Energy (DOE).

U.S. Energy Information Administration (EIA). 2022. "As Much as 15 Million Barrels of Crude Oil Sold from the U.S. Strategic Petroleum Reserve." *Today in Energy*, December 7. <https://www.eia.gov/todayinenergy/detail.php?id=54879>.

U.S. Energy Information Administration (EIA). 2023a. "Crude Oil Prices Increased in First-Half 2022 and Declined in the Second Half." *Today in Energy*, January 5. <https://www.eia.gov/todayinenergy/detail.php?id=55139>.

U.S. Energy Information Administration (EIA). 2023b. *Short-Term Energy Outlook: Natural Gas Consumption, Production, and Exports Broke Records in 2022*. January. <https://www.eia.gov/outlooks/steo/archives/jan23.pdf>.

U.S. Energy Information Administration (EIA). 2024. U.S. Natural Gas Exports and Re-Exports by Country (Annual). Washington, DC: U.S. Energy Information Administration. https://www.eia.gov/dnav/ng/ng_move_expc_s1_a.htm.

Verma, Shariq. 2022. "Oil Hits 7-Year Peak on Political Risks, Supply Crunch." *Reuters*, January 18. <https://www.reuters.com/business/energy/oil-rises-headed-sixth-weekly-gain-amid-supply-concerns-2022-01-28/>.

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About the Project

The KAPSARC Oil Market Outlook (KOMO) is a quarterly, online report providing data, forecasts, and analysis on global oil market supply, demand, and balances. It offers insights into factors affecting oil prices, such as geopolitical conflicts, inventory levels, and economic recovery. The report focuses on market trends to help stakeholders understand energy market dynamics.

