



Investment Perspectives

Re-evaluating the Opportunity in Energy

JULY 2020

Key Takeaways

- Energy has performed poorly over the past ten years and was the worst-performing sector during the first half of 2020. The combination of an unprecedented fall in demand and an increase in supply has weighed most recently on the oil markets.
- Our global industry and fixed income credit analysts have thoroughly stress tested the financial models of the Dodge & Cox Funds' energy investments^a using various oil price scenarios. We believe these companies have sufficient capital and liquidity to weather the current storm.
- We have also conducted further due diligence on many factors, including ESG risks, for their potential to materially impact a security's risk-reward profile.
- While oil prices are currently low, we believe they will likely increase over our three- to five-year investment horizon.
- Current energy valuations—trading at 90-year lows—are depressed and provide an attractive starting point. We continue to find compelling long-term opportunities in selected upstream and oilfield services companies with assets on the low end of the global cost curve, management teams that have deployed capital prudently through the cycle, and low-to-reasonable valuations. As a result, our Investment Committees have maintained overweight positions in Energy within the Dodge & Cox Funds. Exposure to Energy ranges between 7 to 12% of each Fund.

Simultaneous Oil Demand and Supply Shocks

Oil price downturns are typically driven by demand shocks caused by recessions or by new structural additions to supply, such as the U.S. shale surge in 2014-16 or the production glut in the early 1980s from Alaska and Mexico. Historically, supply reductions from OPEC^b have cushioned these shocks. However, the recent confluence of oil demand and supply shocks in March 2020 constituted a black swan event. Saudi Arabia's decision to launch an oil price war—raising crude production and offering deep discounts after Russia refused to expand production cuts with OPEC—came just as the coronavirus pandemic (COVID-19) started to reduce global demand for oil. The sector also faces

secular headwinds to demand. As a result, Energy was the worst-performing sector of the MSCI All Country Index during the first half of 2020, down 34% with oil prices down 38%.

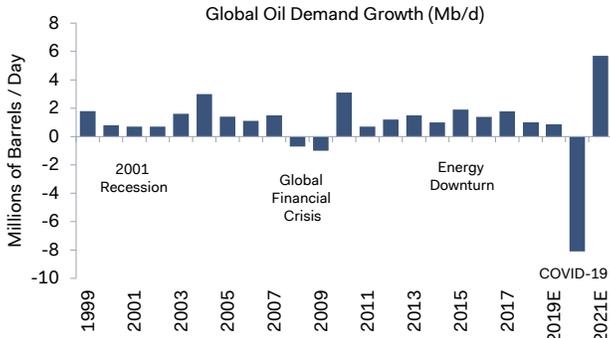
Largest Demand Decline in History

Transportation, petrochemicals, and various industrial uses are the main drivers of oil demand. In 2019, total demand was approximately 100 million barrels per day (Mbpd), with emerging markets accounting for significant demand growth.

During the first half of 2020, the public health responses designed to slow the spread of COVID-19 led to a dramatic reduction in mobility and economic activity around the world. As

the virus spread globally, quarantines led to an unprecedented decline in global oil demand. After decreasing by almost 20 Mbd in the second quarter of 2020, total global demand is estimated to fall by an average eight Mbd for the year (see Figure 1).

Figure 1: Largest Demand Decline in History

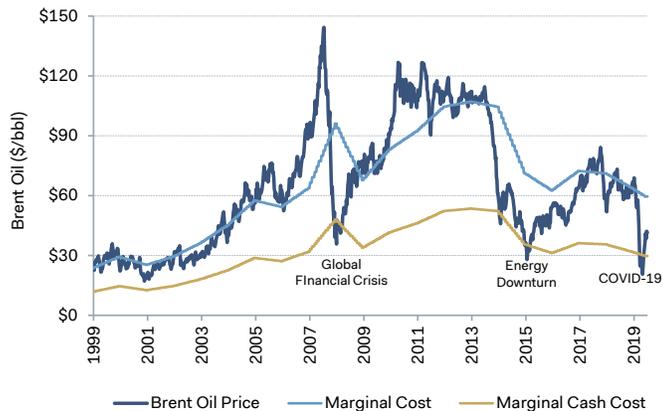


Source: Based on IEA data from IEA (1999-2020) Oil Market Report, <https://webstore.iea.org/archives>, All rights reserved; as modified by Dodge & Cox.

Oil Fell Below Marginal Cash Costs

Oil prices plummeted during the spring of 2020 and even became briefly negative in April as investors holding oil futures were willing to pay to offload contracts for oil they could not store. Even though oil producers around the world responded by shutting down high-cost wells and curtailing other production, the magnitude of demand destruction outweighed the reduction in supply. This imbalance between demand and supply caused prices to drop below marginal cash costs, as shown in Figure 2.

Figure 2: Brent Oil Price (\$/bbl) vs. Marginal Cost

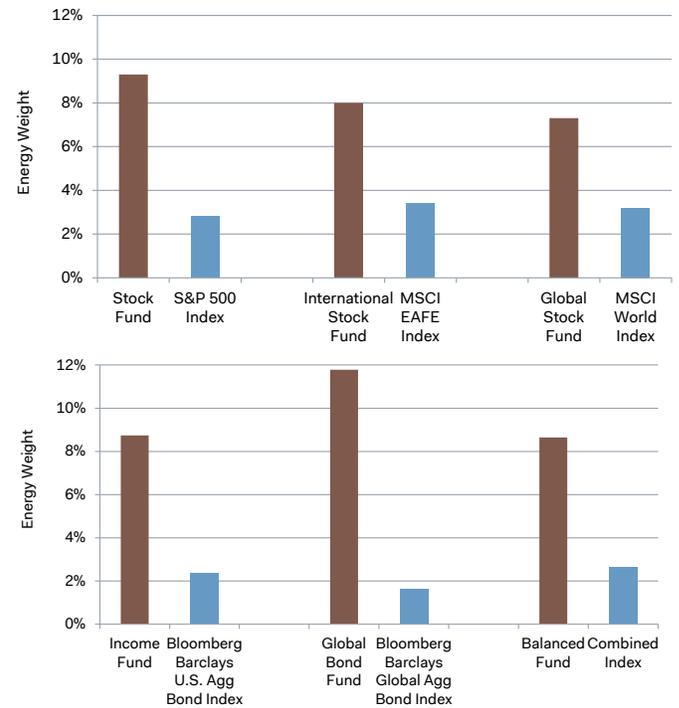


Source: Bernstein Research. Marginal cost represents the price needed to cover capital and operating expenses to bring on new oil production. Marginal cash cost represents cash operating costs, production taxes, and interest expense. Calculations are based on a global set of publicly traded oil companies.

We Have Conviction in the Funds' Meaningful Exposure to Energy

Utilizing deep fundamental research, we seek to understand a company's business model, competitive positioning, and financial strength in a wide variety of scenarios. This work often gives us the conviction and confidence to invest when companies and sectors are out of favor—which is currently

Figure 3: The Dodge & Cox Funds Are Overweight Energy^c



Source: Bloomberg Index Services. MSCI and S&P via FactSet.

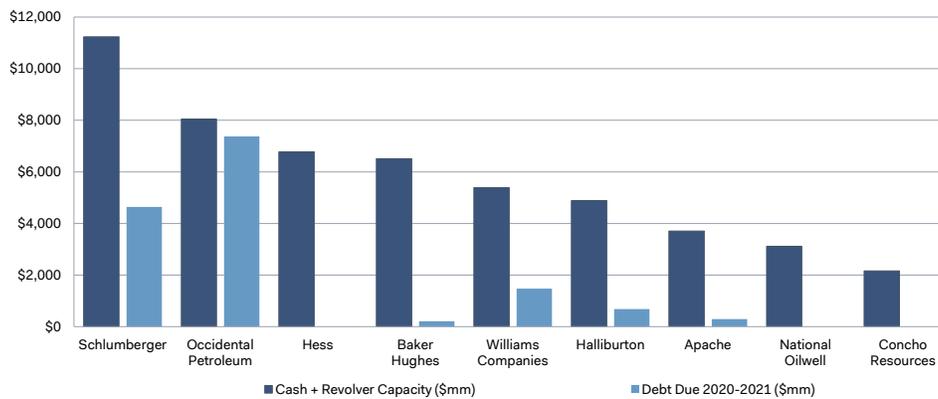
the case with energy, where the Dodge & Cox Funds have meaningful overweight positions (see Figure 3).

As part of our ongoing process, we have rigorously analyzed the Funds' energy holdings and believe we have invested in companies that are well managed and have the potential to create significant shareholder value, even if oil prices do not rise. Energy valuations are inexpensive and provide an excellent starting point. While oil prices are currently low, we believe they will increase over our three- to five-year investment horizon.

1) The Funds' Energy Positions Generally Have Resilient Balance Sheets

Drawing on our experience during the 2008 global financial crisis and the last oil downturn in 2015-16, our global industry and fixed income credit analysts have worked closely together to stress test the Funds' energy holdings. Collaboration between our equity and fixed income teams is a hallmark of our investment process across all stages but becomes particularly important during periods of market stress. For each energy holding, our analyst team has looked at the company's sources and uses of cash across a variety of oil price scenarios, toggling both the severity and duration of the downturn. For companies that we expect to spend more cash than they generate (i.e., most companies in our stress case), we focus on their current sources of liquidity (e.g., cash, lines of credit) and back-up options that could be utilized to generate additional liquidity, including further reductions in capital expenditures, dividend cuts, asset sales, and debt and equity issuance. As part of these liquidity analyses, we also assessed the cost and availability

Figure 4: The Funds' Energy Positions Have Resilient Balance Sheets*



Source: Source: Company reports, Dodge & Cox. Examples of Fund holdings are shown in the chart above. For a full list of the Funds' energy investments, please reference endnote a.

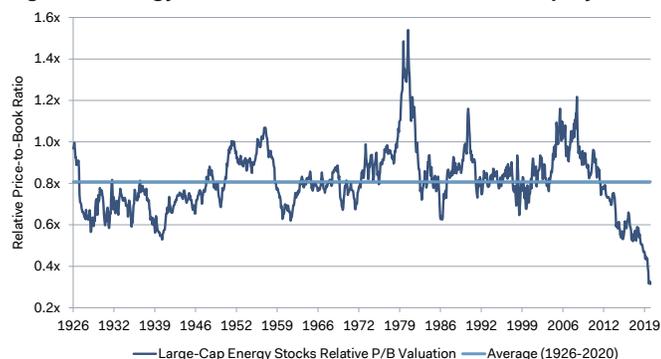
of financing, eligibility for government support, the potential timing and magnitude of contingent liabilities, and impact of any debt covenants.

The above analysis does not exist in a vacuum. We continue to have frequent discussions with management teams, independent board members, service providers, and industry experts to gauge current operating conditions and downside risks. Our ongoing due diligence leads us to believe that the Funds' energy holdings have sufficient capital and liquidity to survive the current headwinds, although some holdings (like Occidental Petroleum) may face larger challenges than others (like Concho Resources). Simple examples^d of current liquidity versus near-term debt maturities are shown in Figure 4.

2) Energy Valuations Are at 90-Year Lows

Energy companies are currently trading at low multiples relative to history and the broader market on a price-to-book basis (see Figure 5). We believe that the fear and uncertainty dominating the headlines have driven valuations to extreme levels that already price in significant downside risks. This type of environment can create a long-term investment opportunity for value-oriented investors like Dodge & Cox. We have extensively assessed the macro environment and company-specific risks, and believe the fundamentals of our carefully selected holdings provide an attractive starting point that more than compensates for the risks.

Figure 5: Energy Valuations Relative to the Overall Equity Market



Source: Empirical Research Partners. Capitalization-weighted data.

3) We Believe Oil Prices Will Increase Over Our Investment Horizon

The long-term outlook for oil prices is more unpredictable than usual due to demand uncertainties related to COVID-19 and multiple variables on the supply side. The typical elasticity of demand to price has broken down, as a lower fuel price alone does not stimulate more driving or flying. To model a security's risk-reward profile, our analysts work with a range of oil price scenarios rather than a specific oil or gas price forecast.

Our global industry and fixed income credit analysts have erred on the side of conservatism, and we have used the following oil price scenarios to retest our conviction in the Funds' energy holdings:

	2020	2021	2022	2023
\$30 Case	\$35	\$30	\$30	\$30
\$45 Case	\$35	\$38	\$42	\$45
\$60 Case	\$40	\$47	\$53	\$60

For the liquidity stress tests mentioned previously, we included an even-worse scenario that contemplated nine months of oil at \$16, before rising to \$30.

While it is hard to know for certain, we believe the probability of the \$60 case materializing is higher than the \$45 case, which, in turn, is higher than the \$30 case. Our analysis of multiple combinations of different supply and demand scenarios suggests that currently large oil supply inventories will likely draw down after 2020, which is positive for oil prices.

Demand Should Return Once Economic Activity Resumes

Since current demand is more a function of health and safety than price, we recognize that future demand will be driven by the timing of a global vaccine deployment. The global scientific community is aggressively working on COVID-19 treatments and vaccines. We forecast demand by end use and think about how long it takes to recover to pre-COVID-19 levels of 100 Mbpd. We estimate this will occur sometime between the end of 2021 and 2023. Longer term, we expect demand to resume its prior trajectory of modest growth, driven by population and GDP growth.

Transportation accounts for the majority of global demand. Passenger vehicle traffic should rebound as economies reopen, as evidenced by early data from China. Longer term, such demand could even exceed prior trends if people continue to avoid public transit. Commercial vehicle traffic has been relatively resilient as trucks continue to carry freight. Air traffic is a wildcard and will likely be the slowest category to recover; however, one third of air traffic is driven by commercial freight and military use, which should remain steady. In addition, petrochemicals are a meaningful source of demand and could increase as oil-based chemicals improve their cost position relative to natural gas-based chemicals at these prices.

There are secular headwinds to higher oil demand, including more employees working from home and teleconferencing. While the return to business travel is hard to forecast, it will likely also be tied to the success of a COVID-19 vaccine.

We believe the “energy transition,” including the shift to electric vehicles (EV), will take longer than expected and not meaningfully alter oil demand over the next few years. In 2019, EVs accounted for 2.6% of global car sales and about 1% of the one billion global passenger vehicles on the world's roads. Longer-term substitution risk is a function of declining battery costs, government mandates to phase out internal combustion engines, and the development of charging infrastructure. We expect that EV penetration will play out slowly without meaningful replacement of passenger vehicle traffic fueled by oil over our investment horizon.

Supply Has Adjusted Quickly to the Decline in Demand

OPEC+^f has agreed to cut output to support oil prices. Significant supply shut-ins (production caps) have resulted in smaller than expected inventory builds, and it is possible that some of that shut-in production is never brought back. Going forward, we think major supply changes will come from two categories: large global producers that have increased production over the past decade and politically driven suppliers. The prolific global supply provinces that have been key contributors to supply over time (Saudi Arabia, Russia, Iraq, and the United States) have further potential to grow, but their rate of growth depends on the oil price. Politically driven suppliers (Iran, Libya, and Venezuela) may be large contributors or detractors of supply depending on geopolitical conditions and policies. For the industry as a whole, new project approvals have largely stopped and are unlikely to restart until oil prices are sustainably higher. We believe oil prices need to rise above \$50 to incentivize growth investments. At the current futures curve, our bottom-up research suggests supply will increase gradually from 2020 levels.

4) Finding Value Through Individual Security Selection

Energy is not a homogeneous sector—it includes diverse sub-industries and companies with unique growth prospects and challenges (including technological and project-specific

Evaluating Environmental, Social, and Governance (ESG) Risks in the Energy Sector

We believe it is important to carefully consider ESG-related risks and opportunities when evaluating companies in our investment portfolios. ESG risks can manifest in direct or non-direct financial liabilities for an energy company in many different ways, including regulatory fees and fines, litigation and remediation costs, or loss of customers due to damage of the brand. We focus on how companies manage safety risks, how they maintain relationships with surrounding communities, and how extensively they work to mitigate the environmental impact of their operations. In particular, we evaluate:

- How is the company acting as an environmental steward?
- Is the company taking steps to maintain its social license to operate?
- Is the company managed well and being run in the best interest of shareholders, as well as a broader set of stakeholders?

Example of How We Consider Material ESG Factors

Suncor Energy

We considered environmental factors when investing in Suncor Energy, an integrated oil company with operations in the Canadian oil sands, offshore Canada/North Sea, and refining. Suncor produces synthetic crude oil and bitumen from oil sands, which poses considerable ESG risks, including high greenhouse gas emissions and the potential for global or local restrictions on oil sands production. Our global industry analyst conducted extensive due diligence, including meetings with management and a trip to visit the facility to see first-hand how the company operates.

We became comfortable with how Suncor is managing its environmental risks due to its strong management team, detailed tracking of environmental metrics that show a reduction in emissions over time, and its involvement with local policy initiatives to reduce carbon emissions across the industry. Suncor has reduced the greenhouse gas intensity of its oil sands base plant by 60% since 1990. In addition, Suncor has developed strong community relationships and partnerships, spending C\$2.7 billion with businesses in the communities where it operates since 2014.

issues), and differing sensitivities to commodity prices. The Funds' energy investments are diversified across business models and geographies.

We look beyond macro concerns to unearth long-term value opportunities through rigorous bottom-up analysis and individual security selection. As part of our investment process,

we assess many factors, including ESG factors, for their potential to materially impact a company's risk-reward profile.

When evaluating energy stocks, we look for companies with assets that are on the low end of the global cost curve, management teams that have deployed capital prudently through the cycle, and low-to-reasonable valuations. We continue to find compelling long-term opportunities in selected upstream and oilfield services companies with these characteristics, such as those highlighted below.

Concho Resources

Concho Resources is an oil and natural gas exploration and production company that operates primarily in the Permian Basin of Southeast New Mexico and West Texas. The company is trading at an inexpensive valuation despite its low-cost and large resource base that should allow the company to have moderate growth with meaningful free cash flow generation over a number of years. Concho Resources has a resilient balance sheet. It has no debt maturities until 2025 and a flexible capital program that allows Concho to adjust capital expenditures down to align with its operating cash flow. The company also entered the downturn with limited financial leverage. From an operating perspective, at \$30 oil, production likely declines at a low single digit rate. In the \$40s, production can be held flat. At \$50+ oil, Concho can grow production at mid-single digits with growing free cash flow generation. Management has a conservative reputation, and its interests are well aligned with long-term shareholders.

Hess

Hess, an independent oil and gas exploration and production company, is investing its strong cash flows from existing assets into a new project with significant production potential in Guyana. The company owns 30% of a partnership with Exxon Mobil in the Stabroek block in Guyana, which is one of the largest oil discoveries in recent decades and one of the lowest-cost projects outside of OPEC. Much of the Stabroek block remains unexplored, and Hess has interests in additional blocks in Guyana and neighboring Suriname. Incremental discoveries on these blocks could provide additional upside. Higher incremental returns from this investment should result in attractive free cash flow growth over the next several years.

Hess' management team has expressed a desire to return free cash flow to shareholders. While the Guyana resource will require significant capital over the next several years and Hess is reliant on solid execution from Exxon, we believe these risks are manageable. Trading at eight times cash flow, Hess is an attractive investment opportunity.

Total

Total is one of the five global supermajors and has both attractive upstream and downstream assets around the world. Due to its integrated business model, Total continues to be a relatively

Fixed Income Energy Exposure

In the Dodge & Cox Income and Global Bond Funds, we have made select energy investments in borrowers that we believe have attractive risk-reward profiles and can withstand weak commodity prices for an extended period. As with our equity holdings, we have re-underwritten all of our energy credits in light of the low oil price environment. Since the energy sell-off, we have initiated positions in several new energy holdings (e.g., Exxon Mobil, Williams) and added to many existing holdings. Although not shown below, the Global Bond Fund also has exposure to U.S. dollar and local currency debt of certain oil exporting countries. These Funds' energy holdings fall into four main categories:

Midstream

Midstream energy companies are primarily involved in the distribution, rather than production, of oil and gas. As a result, the profitability of these companies is, in general, not directly influenced by the level of commodity prices. We seek companies with stable cash flows and long-term contracts with a diverse set of end clients.

- Kinder Morgan
- TC Energy
- The Williams Companies
- Ultrapar

International Oil Companies and Exploration & Production

Production volumes and prices are the primary determinants of these companies' profitability. We seek companies with efficient assets, conservative management, and the balance sheet strength to endure commodity volatility.

- Concho Resources
- EOG Resources
- Exxon Mobil
- Occidental Petroleum

State-Controlled Companies

The Funds hold the debt of two large national oil companies that have low-cost reserves and may benefit from sovereign support in a downturn.

- Petrobras
- Petroleos Mexicanos

Asset Backed

The Funds own the debt of one asset-backed issuer with revenues primarily linked to low-cost oil fields in Brazil. Our diligence has focused on the quality of the underlying fields, resulting cash flows, and legal structure and covenants.

- Rio Oil Finance Trust

defensive holding within the Energy sector. In 2019, Total generated \$26 billion in cash flow, which more than covered the \$21 billion it spent on capital expenditures, dividends, and share buybacks combined. Overall, we believe Total is a well-balanced investment for the portfolio. Management has a solid track record of shrewdly allocating capital and playing offense at the right time. It has low financial leverage and an excellent position on the global cost curve. The company estimates that it can finance investments to maintain production and fully fund its dividend at \$40 oil. With a dividend yield of 8%, the company's low valuation also provides downside mitigation.

In Closing

We are enthusiastic about the long-term outlook for the Dodge & Cox Funds' energy investments. Our global industry and fixed income credit analysts have rigorously stress tested the financial models for each of the Funds' energy holdings, and we believe the companies have sufficient capital and liquidity to navigate the challenging market environment and deliver long-term value to shareholders. Furthermore, we have extensively assessed the macro environment and company-specific risks, and believe the valuations of our carefully selected holdings remain attractive.

Patience and persistence are essential to long-term investment success. We encourage our clients and shareholders to take a similar view. Thank you for your continued confidence in Dodge & Cox.

- a As of June 30, 2020. Dodge & Cox Stock Fund (% of Fund's net assets): Apache (0.7%), Baker Hughes (1.4%), Concho Resources (1.0%), Halliburton (0.7%), Hess (1.0%), National Oilwell Varco (0.4%), Occidental Petroleum (2.3%), Schlumberger (1.1%), and The Williams Companies (0.7%). Dodge & Cox International Stock Fund (% of Fund's net assets): Equinor (1.4%), Ovintiv (0.7%), Schlumberger (1.4%), Suncor Energy (2.2%), and Total (2.3%). Dodge & Cox Global Stock Fund (% of Fund's net assets): Apache (0.7%), Baker Hughes (0.8%), Hess (0.8%), Occidental Petroleum (1.8%), Ovintiv (0.7%), Schlumberger (0.9%), and Suncor Energy (1.5%). Dodge & Cox Income Fund (% of Fund's net assets): Exxon Mobil (0.9%), Kinder Morgan (1.1%), Occidental Petroleum (0.5%), Petroleo Brasileiro (Petrobras, 0.8%), Petroleos Mexicanos (PEMEX, 2.1%), Rio Oil Finance Trust (1.0%), TC Energy (1.7%), The Williams Companies (0.2%), and Ultrapar Participacoes (0.5%). Dodge & Cox Global Bond Fund (% of Fund's net assets): Concho Resources (1.0%), EOG Resources (0.3%), Exxon Mobil (0.5%), Kinder Morgan (1.7%), Occidental Petroleum (1.0%), Petroleo Brasileiro (Petrobras, 1.2%), Petroleos Mexicanos (PEMEX, 1.7%), Rio Oil Finance Trust (0.8%), TC Energy (2.2%), The Williams Companies (0.7%), and Ultrapar Participacoes (0.8%). Dodge & Cox Balanced Fund (% of Fund's net assets): Apache (0.4%), Baker Hughes (1.0%), Concho Resources (0.6%), Exxon Mobil (0.1%), Halliburton (0.5%), Hess (0.7%), Kinder Morgan (0.3%), National Oilwell Varco (0.2%), Occidental Petroleum (1.7%), Petroleo Brasileiro (Petrobras, 0.1%), Petroleos Mexicanos (PEMEX, 0.5%), Rio Oil Finance Trust (0.4%), Schlumberger (0.7%), TC Energy (0.4%), The Williams Companies (0.7%), and Ultrapar Participacoes (0.2%).
- b The Organization of the Petroleum Exporting Countries (OPEC) is an intergovernmental organization of 13 nations. The current OPEC members are Algeria, Angola, Equatorial Guinea, Gabon, Iran, Iraq, Kuwait, Libya, Nigeria, the Republic of the Congo, Saudi Arabia (the de facto leader), the United Arab Emirates, and Venezuela.
- c Unless otherwise specified, all weightings and characteristics are as of June 30, 2020.
- d The use of specific examples does not imply that they are more or less attractive investments than the portfolio's other holdings.
- e Numbers are based on March 31, 2020 consolidated financial statements with pro-forma adjustments for known debt issuance and maturities during the second quarter of 2020.
- f OPEC plus countries (OPEC+) include the 13 members of OPEC and the following 10 additional oil exporting countries (led by Russia): Azerbaijan, Bahrain, Brunei, Kazakhstan, Malaysia, Mexico, Oman, Russia, South Sudan, and Sudan.

Before investing in any Dodge & Cox Fund, you should carefully consider the Fund's investment objectives, risks, and charges and expenses. To obtain a Fund's prospectus and summary prospectus, which contain this and other important information, visit dodgeandcox.com or call 800-621-3979. Please read the prospectus and summary prospectus carefully before investing.

Investment prices may increase or decrease, sometimes suddenly and unpredictably, due to general market conditions. Local, regional, or global events such as war, acts of terrorism, the spread of infectious illness or other public health issues, recessions, or other events could also have a significant impact on a Fund and its investments. In addition, investing in non- U.S. securities may entail risk due to foreign economic and political developments; this risk may be higher when investing in emerging markets.

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unmanaged index of U.S. dollar-denominated, investment-grade, taxable fixed income securities. The Bloomberg Barclays Global Aggregate Bond Index is a widely recognized, unmanaged index of multi-currency, investment-grade fixed income securities.

The Combined Index reflects an unmanaged portfolio (rebalanced monthly) of 60% of the S&P 500 Index and 40% of the Bloomberg Barclays U.S. Aggregate Bond Index.